



January 10, 2023

Mr. Jason Davidson  
PDC Energy Inc.  
1775 Sherman Street, Suite 3000  
Denver, Colorado 80203

**RE: Facility Closure Investigation and Excavation Environmental Report  
Mershon Production Facility and Associated Wellheads  
COGCC 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 recent facility closure investigation and excavation soil sampling activities conducted at the Mershon production facility (Site) and associated wellheads which are listed in the table below.

Well Name	API Number
Great Western 26-44	05-123-26198
Great Western 35-41	05-123-26338
Great Western 35-31	05-123-26339

The Site is located approximately 2.8 miles southeast of Windsor, Colorado. The center location coordinates of the Site are 40.452530° latitude and -104.857781° longitude. A general location map is provided as Figure 1.

The Initial Form 27 Site Investigation and Remediation Workplan (Colorado Oil and Gas Conservation Commission [COGCC] Document Number 403145274) for facility closure at the Site was approved by the COGCC 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.

## **SUMMARY OF IMPACTED SOIL DISCOVERY AND INVESTIGATION**

### **Excavation 1**

During field screening of equipment within the western above ground storage tank (AST) containment, a buried concrete produced water vault was discovered with adjacent impacted soils and was reported as a release to the COGCC in a Form 19 (Document Number 403191082) on October 7, 2022, with work proceeding under COGCC Remediation Project Number 24760. Waste characterization sample WC02@5 was submitted for analysis of Table 915-1 constituents. The impacted material was removed, and all confirmation soil samples were submitted for full Table 915-1 analysis.

### **Excavation 2**

During field screening of equipment within the eastern AST containment, trimethylbenzene (TMB), barium and selenium were reported above COGCC protection of groundwater soil screening levels (GWSSLs) in soil sample AST03@0.5 and was reported as a release to the COGCC in a Form 19 (Document Number 403176694) on October 18, 2022, with work proceeding under COGCC Remediation Project Number 24760. AST03@0.5 was submitted as a waste characterization sample and confirmation soil samples AST03@1.5, SS1@0.5 and SS2@0.5 were submitted to delineate the impacts vertically and laterally. All this material was later excavated as part of Excavation 2, as detailed further below.

During facility closure activities around the eastern AST tank containment, impacted soils previously discovered and reported under historical Remediation Project Number 8677 were removed and hauled offsite as part of the current Remediation Project Number 24760. As this was a known historical release, a Form 19 was not submitted to the COGCC and a waste characterization sample was not submitted for analysis. The impacted material was removed, and all confirmation soil samples were submitted for full Table 915-1 analysis.

### **Excavation 3**

During facility closure activities, impacted soils were observed adjacent to dump lines east of the separators. This was reported as a release to the COGCC in a Form 19 (Document Number 403181530) on September 29, 2022, with work proceeding under COGCC Remediation Project Number 24760. The Waste characterization sample WC01@5 and excavation confirmation soil samples were submitted for Table 915-1 constituents. The impacted material was removed and all confirmation soil samples were submitted for full Table 915-1 analysis.

## Impacted Soil Summary

Further details of these releases and subsequent source removal at Excavation 1, Excavation 2, and Excavation 3 are discussed below in the excavation activities section. All investigation activities, field screening, and confirmation soil sampling activities discussed herein were conducted in accordance with COGCC 900 Series Rules and guidance documents. Discrete soil samples were collected and analyzed pursuant to Rule 915, following the general sample collection guidance in Rule 915.e.(2). A Site map showing locations of equipment and subsequent figures is provided as Figure 2.

## **FACILITY CLOSURE SOIL SAMPLING ACTIVITIES**

On September 20, September 21, and September 23, 2022, Entrada personnel conducted field screening and collected soil samples related to facility decommissioning and wellhead cut and cap activities at the Site. Field screening consisted of inspecting soil for visual and olfactory evidence of hydrocarbon impact and utilizing a photoionization detector (PID) calibrated with 100 parts per million (ppm) isobutylene gas. The equipment investigated following decommissioning and removal included three wellheads, seven ASTs, one partially buried produced water tank, two separators, one emission control device (ECD), and associated flowlines and dump lines. The field screening and sample location information is summarized in Table 1. A photographic log is provided as Attachment A, and the facility closure checklists are provided as Attachment B.

### Tank Battery and Partially Buried Produced Water Tank

Following removal of the ASTs, one soil sample was collected for laboratory analysis from the footprint of each of the removed ASTs (soil sample locations AST01 through AST07) and sample depths ranged from approximately 0.5 to 2 feet below ground surface (ft-bgs). Laboratory analytical results for soil sample AST03@0.5 confirmed the presence of hydrocarbon impacts. The release was reported to the COGCC in a Form 19, as previously discussed, and the impacted soil was later removed by excavation associated with Excavation 1 (detailed below).

Following removal of the partially buried water tank, the tank excavation floor and sidewalls were field screened. One soil sample (WDL01@2) was collected at 2 ft-bgs from the south sidewall and one soil sample (PWV01@5) was collected at 5 ft-bgs from the floor of the tank excavation and submitted for laboratory analysis. The tank battery soil sample locations are displayed on Figure 3.

### Separators and ECDs

Following removal of the separators, soil samples were collected below the former dump lines (SEP01-DL, SEP02-DL) and inlet risers (SEP01-FL, SEP02-FL) at a depth

of 4 ft-bgs. Field screening was completed beneath the former ECD, and no evidence of hydrocarbon impact was observed. The separator area field screening PID results and soil sample locations are displayed on Figure 4.

### Wellheads

At each of the three wellheads, soil was excavated around the well to approximately 6 ft-bgs to perform cut and cap activities. At each wellhead excavation, one soil sample was collected from the sidewall adjacent to the former flowline connection at depths ranging from 3 to 4 ft-bgs and one soil sample was collected from the floor of the excavation at depths ranging from 5.5 to 6.5 ft-bgs and submitted for laboratory analysis. No evidence of hydrocarbon impact was observed at any of the wellhead locations. The wellhead field screening locations and soil sample locations are displayed on Figure 4.

### Flowlines, Dump Lines and Sales Line

During the removal of flowlines, dump lines and the sales line at the Site, the lines were daylighted using a backhoe and pulled from the subsurface. Soil was field screened with the PID at the daylighted locations and sampling depths were representative of flowline depths. Impacted soils were observed adjacent to dump lines east of the separators. This was reported as a release to the COGCC in a Form 19 as previously discussed. The flowlines, dump lines, and sales line field screening locations are shown on Figure 3, Figure 4, and Figure 5.

### Background Soil Sampling

Four background samples were collected from one background boring (BG1) to characterize background inorganic concentrations. Samples were collected from an area north of and away from potential sources of impact related to the Site. The background sampling location is displayed on Figure 3.

## **FACILITY CLOSURE SOILS LABORATORY ANALYSIS**

All soil samples were collected into 4-ounce sample jars, sealed, labeled, placed into ice-filled coolers for preservation, and then submitted following chain-of-custody procedures to Summit Scientific (Summit) in Golden, Colorado, for analysis of the following parameters by the stated methods:

### Waste Characterization Sample (AST03@0.5)

- Complete Table 915-1 list:
  - Benzene, toluene, ethylbenzene, total xylenes (BTEX), 1,2,4 trimethylbenzene (TMB), 1,3,5 TMB, and total petroleum hydrocarbons



(TPH) as gasoline range organics (GRO) by Environmental Protection Agency (EPA) Method 8260D

- Polycyclic aromatic hydrocarbons (Table 915-1 list) by EPA method 8270D SIM.
- TPH as diesel range organics (DRO) and TPH as oil range organics (ORO) by EPA Method 8015D.
- Metals (Table 915-1 list) by EPA Method 6020B with hexavalent chromium by EPA Method 6020B.
- Electrical conductivity (EC) by Modified 9050A Modified, sodium adsorption ratio (SAR) by 20B Saturated Paste Method, pH by EPA Method 9045D and boron by DTPA Sorbitol Method.

#### All Facility Closure Samples (AST, SEP, PWV, WDL, WH, FLR, SS)

- BTEX, 1,2,4-TMB, 1,3,5-TMB, naphthalene, TPH as GRO, TPH as DRO, and TPH as ORO by the methods listed above.

#### Wellhead Excavation Sidewall Soil Samples (FLR) and Floor of Partially Buried Produced Water Tank Excavation (PWV)

- EC, SAR, pH, and boron by the methods listed above.

#### Background Soil Samples (BG1)

- Arsenic, barium, and selenium by the method listed above for metals.
- EC, SAR, pH, and boron by the methods listed above.

### **FACILITY CLOSURE SOILS ANALYTICAL RESULTS**

COGCC Table 915-1 GWSSLs were used to determine soil compliance. A summary of analytes with laboratory results exceeding their respective Table 915-1 GWSSLs is presented below:

#### Waste Characterization Sample (AST03@0.5)

- Organic compounds in soils: 1,2,4-TMB (0.0092 milligrams per kilogram [mg/kg]), 1,3,5-TMB (0.020 mg/kg).
- Metals: arsenic (3.48 mg/kg), barium (300 mg/kg) and selenium (0.710 mg/kg).

#### Background Soil Samples (BG1)

- Arsenic: BKG01@1 (7.97 mg/kg) and BKG01@8 (4.60 mg/kg)
- Barium: BKG01@1 (119 mg/kg) and BKG01@8 (85.0 mg/kg)
- Selenium: BKG01@1 (1.50 mg/kg) and BKG01@8 (1.10 mg/kg)

- pH: BKG01@1 (8.30)

All other facility closure laboratory analytical results were compliant with their respective Table 915-1 GWSSLs. With the exception of facility closure samples for the western separator (SEP01) and the wellheads, which were compliant with their respective Table 915-1 GWSSLs, all other facility closure soil samples were later removed as part of the excavation activities mentioned above and discussed in further detail below. The waste characterization, facility closure and background soil analytical results are summarized in Table 2, Table 3, and Table 4. The analytical results reported above applicable Table 915-1 standards are shown on Figure 3. The laboratory analytical reports are provided in Attachment C.

## **EXCAVATION ACTIVITIES**

### **Excavation 1**

On October 4, October 5, and October 6, 2022, impacted soil was removed from Excavation 1 in the area surrounding waste characterization sample WC02. Twenty sidewall confirmation soil samples were collected from 10 locations at depths ranging from 5 to 10 ft-bgs. Six floor confirmation soil samples were collected at depths ranging from 14 to 14.5 ft-bgs. Approximately 710 cubic yards of material was hauled offsite under PDC manifest to Waste Management's North Weld Landfill in Ault, Colorado in accordance with COGCC Rules 905 and 906, and approximately 690 cubic yards of clean overburden was stockpiled on Site to be used as backfill.

### **Excavation 2**

On October 6, October 7, October 10, October 11, October 12, October 19, and October 21, 2022, impacted soil was removed from Excavation 2 as part of the historical remediation mentioned above. Thirty-eight sidewall confirmation soil samples were collected from 18 locations at depths ranging from 6 to 12 ft-bgs. Seven floor confirmation soil samples were collected at depths ranging from 14 to 15 ft-bgs. Approximately 3,180 cubic yards of material was hauled offsite under PDC manifest to Waste Management's North Weld Landfill in Ault, Colorado in accordance with COGCC Rules 905 and 906, and approximately 260 cubic yards of clean overburden was stockpiled on Site to be used as backfill.

### **Excavation 3**

On October 13, October 14, October 17, October 18, and October 19, 2022, impacted soil was removed from Excavation 3 in the area surrounding waste characterization sample WC01. Twenty sidewall confirmation soil samples were collected from 10 locations at depths ranging from 6 to 11 ft-bgs. Six floor confirmation soil samples were

collected from a depth of 13 ft-bgs. Approximately 2,040 cubic yards of material was hauled offsite under PDC manifest to Waste Management's North Weld Landfill in Ault, Colorado in accordance with COGCC Rules 905 and 906.

### Excavation Activities Summary

In total, approximately 5,930 cubic yards of impacted soil was hauled offsite for disposal under PDC manifest to Waste Management's North Weld Landfill in Ault, Colorado in accordance with Rules 905 and 906. Copies of the waste disposal manifests are available upon request. Groundwater was encountered at approximately 14 ft-bgs in Excavation 1 and a grab groundwater sample was collected on October 4, 2022. Groundwater was encountered at approximately 14 ft-bgs in Excavation 2 and a grab groundwater sample was collected on October 6, 2022. On October 10, 2022, 50 barrels of groundwater were removed from the base of Excavation 1 and 45 barrels of groundwater were removed from the base of Excavation 2 utilizing a hydro vacuum truck. The groundwater was disposed of under manifest at NGL Water Solutions' C-4 well. Copies of the waste disposal manifests are available upon request. Groundwater was encountered at approximately 13 ft-bgs in Excavation 3 and a grab groundwater sample was collected on October 18, 2022. Groundwater was not removed from Excavation 3.

### **EXCAVATION SOIL AND GROUNDWATER ANALYSIS**

All soil samples collected from the excavations were submitted for full Table 915-1 analysis. Additionally, one confirmation soil sample was collected at 2.5 ft-bgs from one sidewall in each excavation and submitted for analysis of soil suitability parameters. Discrete groundwater samples (GW01, GW02, and GW03) were collected from the base of the excavations and submitted for analysis of BTEXN and TMBs.

Two confirmation sidewall soil samples were collected at various depths at an average of once per twenty linear feet around the perimeter of each excavation. Confirmation floor soil samples were collected in accordance with COGCC guidance area requirements. All material with organic soil analytical results above their respective GWSSLs, or 1.25x their respective inorganic background levels, was removed and are displayed as such (green or yellow highlight) in Table 2, Table 3, and Table 4 and as gray symbology on the figures. A summary of analytes with laboratory results exceeding their respective COGCC Table 915-1 GWSSLs for soil left in place is presented below:

#### Excavation 1

- Arsenic: All confirmation soils samples, with a maximum concentration of 4.55 mg/kg, reported for EX01@14.
- Barium: EX11@5 (85.9 mg/kg), EX13@5 (99.2 mg/kg) and EX13@12 (149 mg/kg)
- Selenium: EX01@14 (0.728 mg/kg)

### Excavation 2

- Arsenic: All confirmation soils samples, with a maximum concentration of 7.54 mg/kg, reported for 2EX29@6.
- Barium: Ten confirmation soils samples, with a maximum concentration of 114 mg/kg, reported for 2EX03@6.

### Excavation 3

- Arsenic: All confirmation soils samples, with a maximum concentration of 5.87 mg/kg, reported for 3EX07@6.
- Barium: 3EX03@6 (86.0 mg/kg) and EX05@6 (81.9 mg/kg)

### Excavation Groundwater Analytical Results

- All results for were reported as non-detect

All remaining analytical results for soil left in place were compliant with their respective Table 915-1 GWSSLs. The excavation confirmation soil sample locations and final excavation extents are displayed on Figure 6, Figure 7 and Figure 8. Excavation confirmation soil analytical results are provided in Table 2, Table 3 and Table 4. Grab groundwater sample analytical results are provided in Table 5. A photographic log of excavation activities is provided in Attachment A. Laboratory analytical results are provided in Attachment C.

Approximately 950 cubic yards of clean overburden was segregated and used as backfill. Prior to backfill, two composite samples (C01 and C02) were collected from this material and submitted for analysis of BTEXN, TMBs, and TPH. Analytical results were reported as non-detect and are provided at the bottom of Table 2.

## **SUMMARY**

Hydrocarbon impacted soil was identified at three locations during facility closure activities. Excavation was conducted and the identified impacted soil was removed and transported offsite for disposal under PDC manifest to Waste Management's North Weld Landfill in Ault, Colorado in accordance with Rules 905 and 906. All analytical results of the excavation confirmation soil samples collected from the final extent of the excavation floor and sidewalls were compliant with their applicable Table 915-1 GWSSLs except for arsenic, barium, and selenium.

All arsenic concentrations left in place above the GWSSL are below 1.25x the highest background arsenic concentration of 7.97 mg/kg reported for BKG01@1. All barium concentrations left in place above the GWSSL are below 1.25x the highest background barium concentration of 119 mg/kg except for sidewall sample EX13@10 (149 mg/kg) in Excavation 1, which is equal to 1.25 times the highest background barium

concentration. The selenium concentration of 0.728 mg/kg left in place is less than 1.25x the background selenium concentration reported for BKG01@1 (1.50 mg/kg). All remaining facility closure and excavation confirmation soil samples submitted for laboratory analysis were compliant with applicable Table 915-1 GWSSL standards.

Analytical results for all three grab groundwater samples collected from the floors of the excavations were reported as below the laboratory method detection limits. In addition, on December 13, 2021, following four consecutive compliant quarters of groundwater monitoring data from the four monitoring wells installed at the Site, the COGCC approved closure of quarterly groundwater monitoring requirements associated with Remediation Project Number 8677 in Supplemental Form 27 Document Number 402876579.

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

One of the four monitoring wells (MW-1) was destroyed during the recent excavation activities. With closure status granted for Remediation Project Number 24760, PDC will plug and abandon the remaining three monitoring wells in accordance with Colorado Division of Water Resources guidelines.

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 stylized flourish at the end.

Ben Baugh, P.G.  
*Senior Project Geologist*

**Attachments:**

**Figure 1 – General Location Map**

**Figure 2 – Facility Closure Sampling Overview Map**

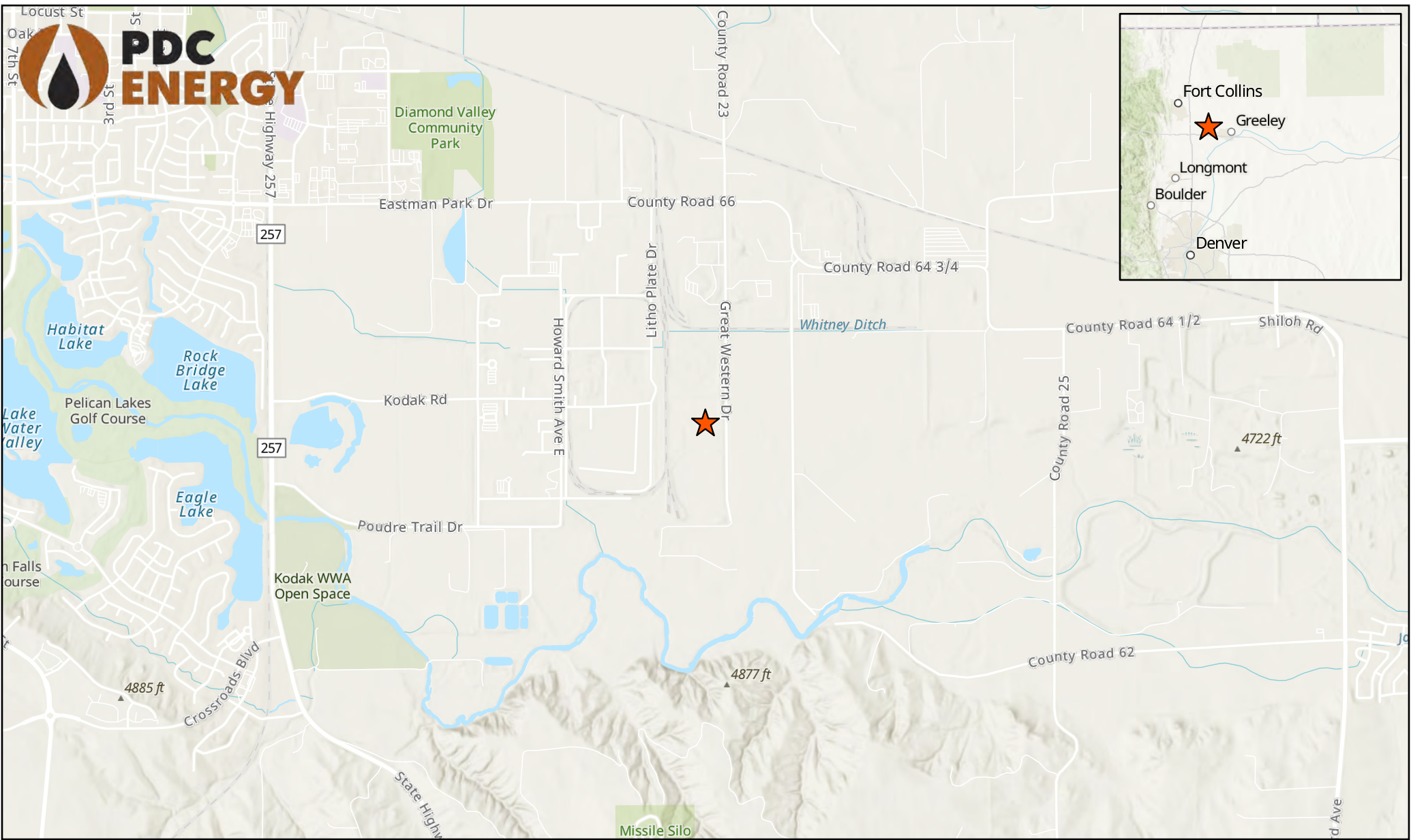
**Figure 3 – Tank Battery Area Sample Location Map**

**Figure 4 – Separator and Wellheads Area Sample Location Map**

**Figure 5 – Sale Line Sample Location Map**

**Figure 6 – Excavation 1 Sample Location Map**  
**Figure 7 – Excavation 2 Sample Location Map**  
**Figure 8 – Excavation 3 Sample Location Map**  
**Table 1 – Soil Sample and Field Screening Location Information**  
**Table 2 – Soil Analytical Results: Organics**  
**Table 3 – Soil Analytical Results: PAHs**  
**Table 4 – Soil Analytical Results: Inorganics**  
**Table 5 – Grab Groundwater Sample Analytical Results**  
**Attachment A: Photographic Log**  
**Attachment B: Facility Closure Checklists**  
**Attachment C: Laboratory Analytical Reports**


## FIGURES



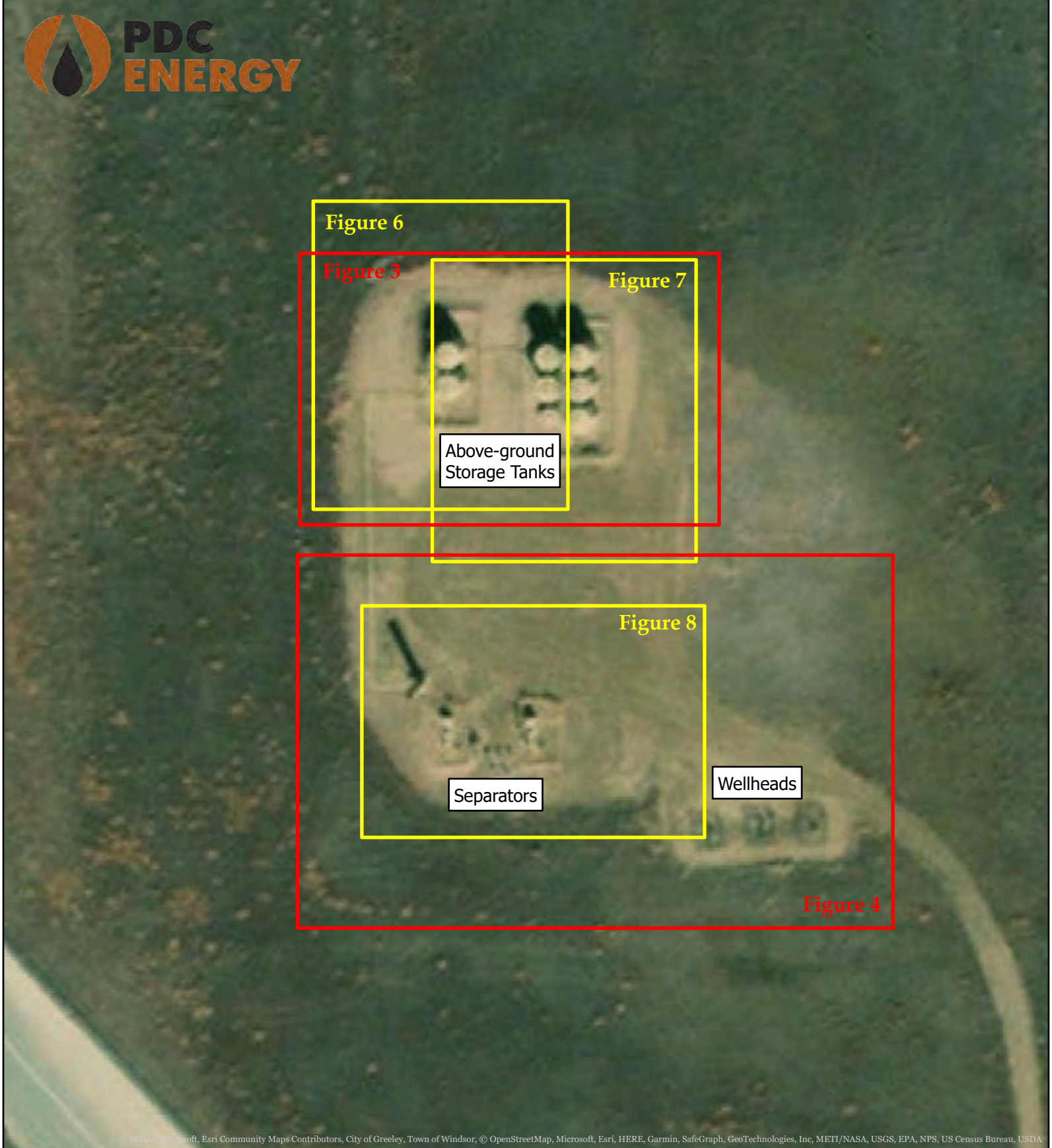
**LEGEND**  
 Site Location



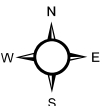
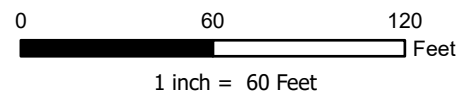


Project No: 022-089	<b>GENERAL LOCATION MAP</b> <b>MERSON PAD AND ASSOCIATED WELLHEADS</b> PDC ENERGY SW 1/4 SE 1/4 SECTION 26 T6N R67W, 6TH PM WELD COUNTY, COLORADO		1843 Sunlight Dr. Longmont, CO 80504 303.378.4036	Figure
Map By: JW				1
Date: 11/18/2022				





Maxar, Microsoft, Esri Community Maps Contributors, City of Greeley, Town of Windsor, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA



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

**SITE MAP AND FIGURE LOCATIONS**  
 MERSHON PRODUCTION FACILITY  
 AND ASSOCIATED WELLHEADS  
 PDC ENERGY  
 SW 1/4 SE 1/4 SECTION 26, T6N R67W, 6TH PM  
 WELD COUNTY, COLORADO



1843 Sunlight Drive  
 Longmont, CO 80504  
 303.378.4036

Figure  
 2



Excavation 1

AST03@0.5	
9/20/2022	
1,2,4-TMB (mg/kg):	0.0092
1,3,5-TMB (mg/kg):	0.020
Arsenic (mg/kg):	3.48
Barium (mg/kg):	300
Selenium (mg/kg):	0.710

FL06@5

Excavation 2

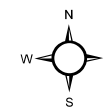
## Legend

- Sample Point
- Sample Point - Removed By Excavation
- Field Screening Location
- Field Screening Location - Removed By Excavation

Excavation Extent

0 25 50 Feet

1 inch = 25 Feet



Project No: 022-089

Map By: JW

Date: 12/01/2022

## FACILITY CLOSURE SAMPLE MAP ABOVE-GROUND STORAGE TANKS

MERSON PRODUCTION FACILITY  
AND ASSOCIATED WELLHEADS  
PDC ENERGY  
SW 1/4 SE 1/4 SECTION 26, T6N R67W, 6TH PM  
WELD COUNTY, COLORADO

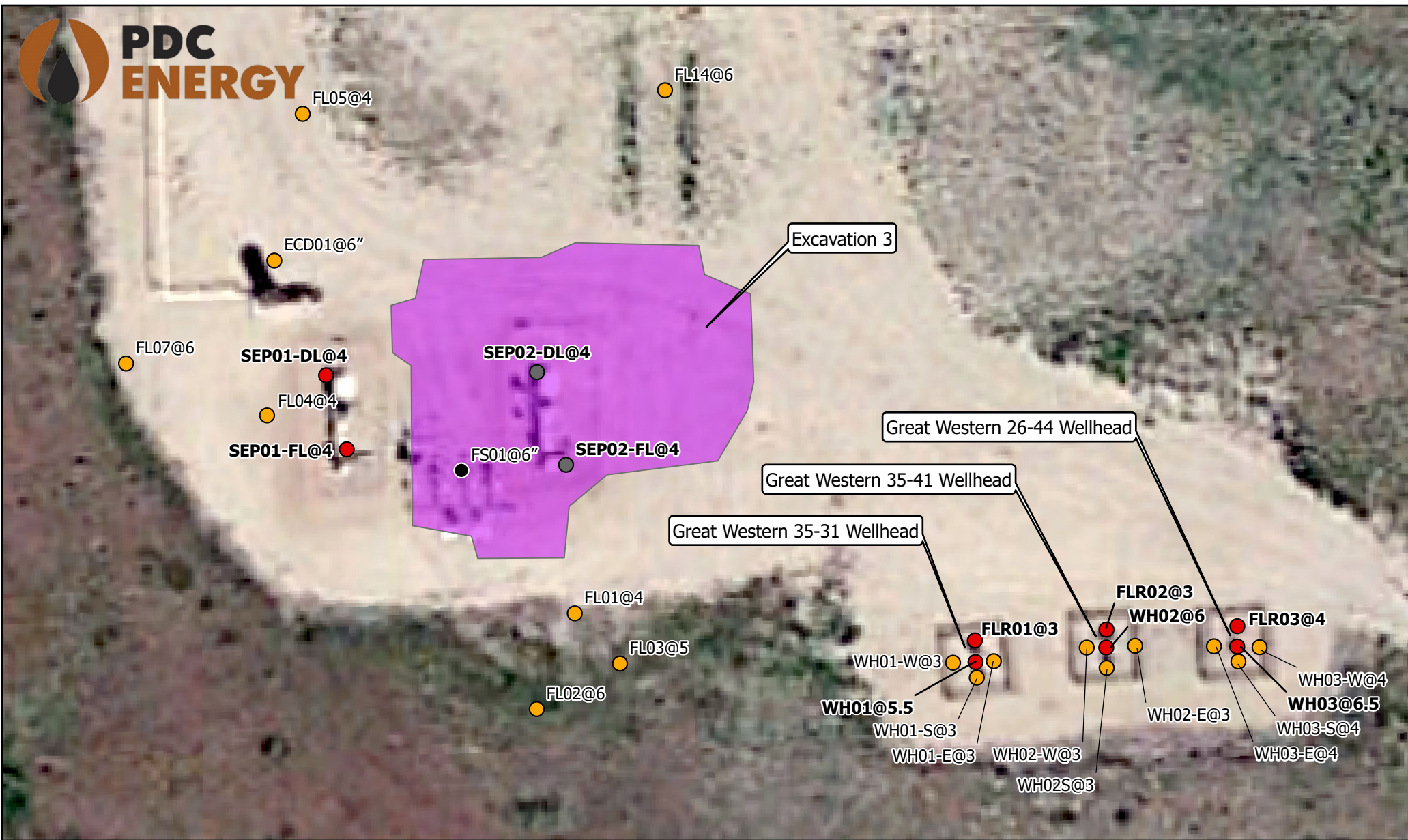


1843 Sunlight Dr.  
Longmont, CO 80504  
303.378.4036

Figure

3





## Legend

- Sample Point
- Sample Point - Removed By Excavation
- Field Screening Location
- Field Screening Location - Removed By Excavation



Project No: 022-089

Map By: JW

Date: 01/09/2023

### FACILITY CLOSURE SAMPLE MAP SEPARATORS AND WELLHEADS

MERSHON PRODUCTION FACILITY  
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

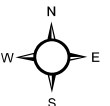
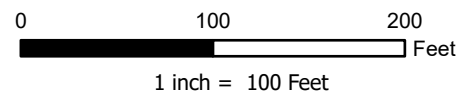
4





### Legend

-  Field Screening Location
  Sales Line
-  Sales Line Removed
  Abandonment in Place



Project No: 022-089

Map By: JW

Date: 11/18/2022

**FACILITY CLOSURE SAMPLE MAP - SALES LINE**  
MERSHON PRODUCTION FACILITY  
AND ASSOCIATED WELLHEADS  
PDC ENERGY  
SW 1/4 SE 1/4 SECTION 26, T6N R67W, 6TH PM  
WELD COUNTY, COLORADO

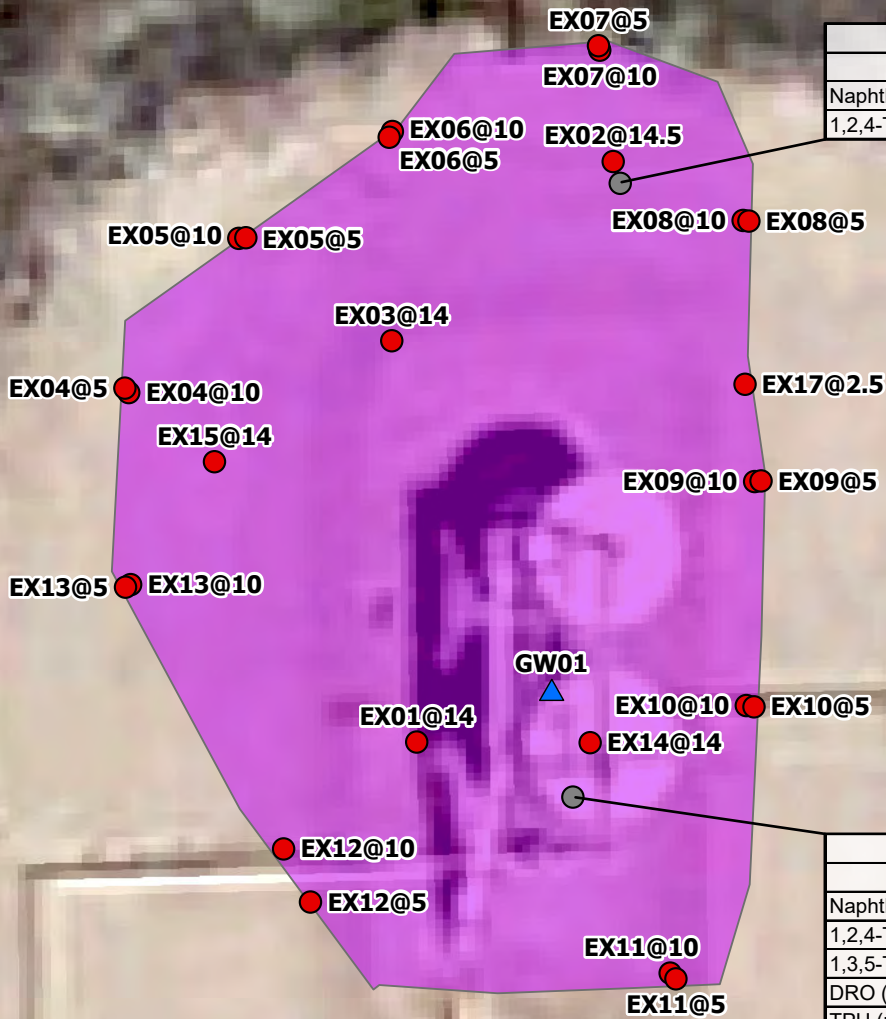


1843 Sunlight Drive  
Longmont, CO 80504  
303.378.4036

Figure

5





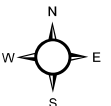
EX02@14	
10/4/2022	
Naphthalene (mg/kg):	0.0042
1,2,4-TMB (mg/kg):	0.017

WC02@5	
10/4/2022	
Naphthalene (mg/kg):	0.22
1,2,4-TMB (mg/kg):	6.9
1,3,5-TMB (mg/kg):	2.6
DRO (mg/kg):	3,000
TPH (mg/kg):	3,580
1-Methylnaphthalene (mg/kg):	0.409
2-Methylnaphthalene (mg/kg):	1.14

## Legend

- Sample Point
- Sample Point - Removed By Excavation
- ▲ Groundwater Sample
- Excavation Extent

0 10 20 30  
Feet  
1 inch = 15 Feet



Project No: 022-089

Map By: JW

Date: 11/14/2022

**EXCAVATION 1 SAMPLE MAP**  
**NORTHWEST EXCAVATION**  
 Mershon Production Facility  
 AND ASSOCIATED WELLHEADS  
 PDC ENERGY  
 SW 1/4 SE 1/4 SECTION 26, T6N R67W, 6TH PM  
 WELD COUNTY, COLORADO

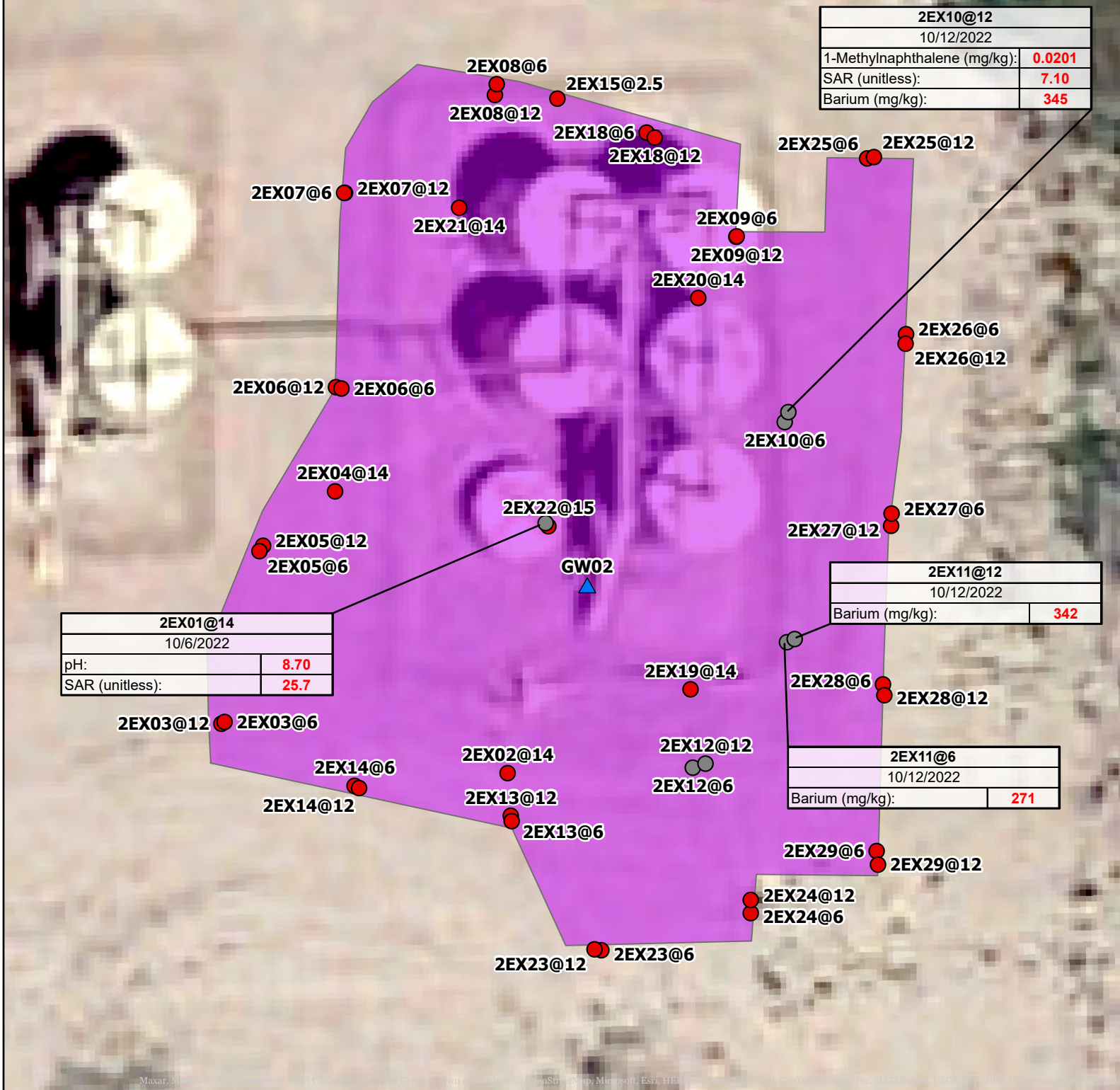


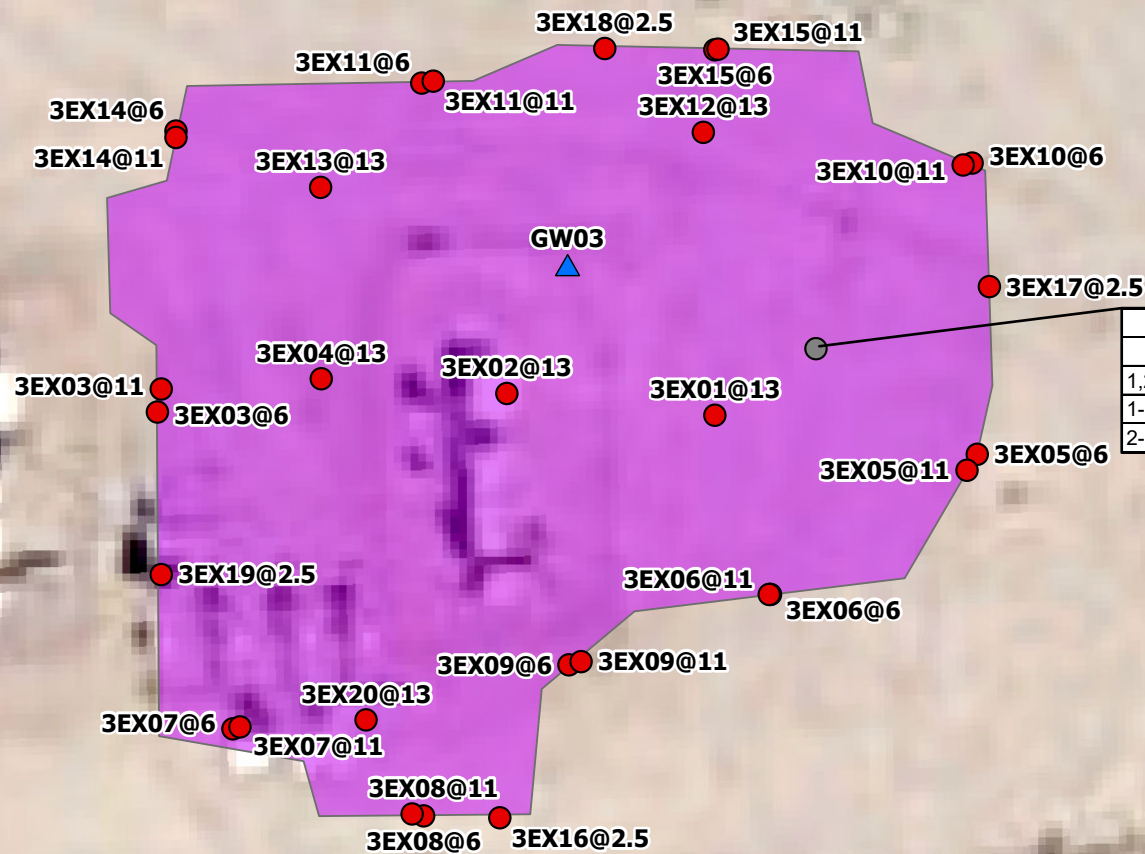
1843 Sunlight Drive  
 Longmont, CO 80504  
 303.378.4036

Figure

6



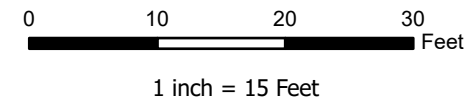




WC01@5	
9/27/2022	
1,2,4-TMB (mg/kg):	0.015
1-Methylnaphthalene (mg/kg):	0.934
2-Methylnaphthalene (mg/kg):	1.75

## Legend

- Sample Point
- ▲ Groundwater Sample
- Sample Point - Removed By Excavation
- Excavation Extent



Project No: 022-089

Map By: JW

Date: 01/10/2023

**EXCAVATION 3 SAMPLE MAP**  
**SEPARATOR DUMP LINE EXCAVATION**  
 MERSON PRODUCTION FACILITY  
 AND ASSOCIATED WELLHEADS  
 PDC ENERGY  
 SW 1/4 SE 1/4 SECTION 26, T6N R67W, 6TH PM  
 WELD COUNTY, COLORADO



1843 Sunlight Dr.  
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 303.378.4036

Figure

8

## **TABLES**





**TABLE 1**  
**Soil Sample and Field Screening Information**  
**Mershon Pad Facility Closure. Weld County, CO**

Sample Information					
Sample ID	Depth	PID Readings	Sample Date	Latitude	Longitude
Units -->	ft-bgs	ppm	mm/dd/yyyy	Decimal Degree (NAD83)	
BKG01	1,3,5,8	NM	9/27/2022	40.45338243	-104.8576523
AST01@2	2	0.0	9/20/2022	40.45314033	-104.8578518
AST02@2	2	4.1	9/20/2022	40.45317983	-104.8578517
AST03@0.5	0.5	39.0	9/20/2022	40.45317665	-104.8576292
AST03@1.5	1.5	1.5	9/21/2022	40.45317647	-104.8576264
AST04@0.5	0.5	2.2	9/20/2022	40.45313784	-104.8576268
AST05@0.5	0.5	5.0	9/20/2022	40.45309322	-104.8576307
AST06@0.5	0.5	0.0	9/20/2022	40.45313476	-104.8576958
AST07@1	1	1.1	9/20/2022	40.453176	-104.8576952
SEP02-FL@4	4	1.8	9/20/2022	40.45266945	-104.8577299
SEP02-DL@4	4	0.0	9/20/2022	40.45271806	-104.8577493
SEP01-FL@4	4	0.0	9/20/2022	40.45267838	-104.8578802
SEP01-DL@4	4	0.0	9/20/2022	40.45271722	-104.8578939
PWV01@5	5	0.0	9/21/2022	40.4530847	-104.8577128
WDL01@2	2	0.0	9/21/2022	40.45306905	-104.8577135
WH01@5.5	5.5	0.9	9/21/2022	40.45256455	-104.8574501
WH02@6	6	0.0	9/21/2022	40.45257167	-104.8573604
WH03@6.5	6.5	0.0	9/21/2022	40.4525717	-104.8572707
FLR01@3	3	0.0	9/21/2022	40.45257594	-104.8574504
FLR02@3	3	0.0	9/21/2022	40.45258112	-104.8573602
FLR03@4	4	0.0	9/21/2022	40.45258239	-104.8572705
SS01@0.5	0.5	0.0	9/23/2022	40.45317826	-104.857609
SS02@0.5	0.5	0.0	9/23/2022	40.45319322	-104.8576279
FS01@6	6	0.0	9/20/2022	40.45266692	-104.8578016
ECD01@6	6	0.0	9/20/2022	40.45277749	-104.8579288
PWV01-N@2	2	0.0	9/21/2022	40.45309792	-104.8577127
PWV01-W@2	2	0.0	9/21/2022	40.45308551	-104.8577289
PWV01-E@2	2	3.5	9/21/2022	40.45308569	-104.8576954
WH01-W@3	3	0.0	9/21/2022	40.45256431	-104.8574655
WH02-W@3	3	0.0	9/21/2022	40.45257171	-104.8573738
WH03-W@4	4	0.0	9/21/2022	40.45257191	-104.8572866
WH01-E@3	3	0.0	9/21/2022	40.45256495	-104.8574376
WH02-E@3	3	0.0	9/21/2022	40.45257247	-104.8573407
WH03-E@4	4	0.0	9/21/2022	40.45257125	-104.8572553
WH01-S@3	3	0.0	9/21/2022	40.4525564	-104.8574494
WH02S@3	3	0.0	9/21/2022	40.45256104	-104.8573603
WH03-S@4	4	0.0	9/21/2022	40.45256389	-104.8572699
FL01@4	4	0.0	9/22/2022	40.4525916	-104.8577246
FL02@6	6	0.0	9/22/2022	40.4525416	-104.8577512
FL03@5	5	0.0	9/22/2022	40.45256513	-104.8576939
FL04@4	4	0.0	9/22/2022	40.45269643	-104.8579346
FL05@4	4	0.0	9/22/2022	40.45285422	-104.8579086
FL06@5	5	0.2	9/22/2022	40.4530149	-104.85793
FL07@6	6	0.8	9/27/2022	40.45272415	-104.858031



**TABLE 1**  
**Soil Sample and Field Screening Information**  
**Mershon Pad Facility Closure. Weld County, CO**

Sample Information					
Sample ID	Depth	PID Readings	Sample Date	Latitude	Longitude
Units -->	ft-bgs	ppm	mm/dd/yyyy	Decimal Degree (NAD83)	
FL08@5	5	0.0	9/27/2022	40.45341797	-104.8580632
FL09@5	5	0.0	9/27/2022	40.45406603	-104.8580818
FL10@6	6	0.0	9/27/2022	40.45420095	-104.8581011
FL11@5	5	0.0	9/27/2022	40.45419068	-104.8589699
FL12@5	5	0.0	9/27/2022	40.45419848	-104.8599171
FL13@6	6	0.0	9/27/2022	40.45421913	-104.8603562
FL14@6	6	0.0	9/27/2022	40.45286532	-104.8576602
Excavation 1 (Northwest Excavation)					
WC02@5	5	1550	10/4/2022	40.453144	-104.8578697
EX01@14	14	0.0	10/4/2022	40.45315597	-104.8579134
EX02@14	14	3.6	10/5/2022	40.45327555	-104.8578551
EX02@14.5	14.5	0.0	10/5/2022	40.4532802	-104.8578571
EX03@14	14	0.0	10/5/2022	40.45324208	-104.8579197
EX04@5	5	0.0	10/6/2022	40.45323237	-104.8579946
EX04@10	10	2.6	10/5/2022	40.45323141	-104.8579935
EX05@5	5	0.0	10/6/2022	40.45326442	-104.8579605
EX05@10	10	0.0	10/5/2022	40.45326431	-104.8579623
EX06@5	5	0.0	10/6/2022	40.45328569	-104.8579199
EX06@10	10	0.0	10/5/2022	40.45328701	-104.857919
EX07@5	5	0.0	10/6/2022	40.45330502	-104.857861
EX07@10	10	0.0	10/5/2022	40.45330405	-104.8578606
EX08@5	5	0.3	10/6/2022	40.45326715	-104.8578192
EX08@10	10	0.3	10/5/2022	40.45326729	-104.8578207
EX09@5	5	0.4	10/6/2022	40.45321146	-104.8578162
EX09@10	10	6.9	10/5/2022	40.45321136	-104.8578181
EX10@5	5	0.0	10/6/2022	40.45316307	-104.8578187
EX10@10	10	0.0	10/5/2022	40.45316331	-104.8578207
EX11@5	5	0.0	10/6/2022	40.45310482	-104.8578411
EX11@10	10	1.3	10/5/2022	40.45310602	-104.8578428
EX12@5	5	0.3	10/6/2022	40.45312188	-104.8579435
EX12@10	10	2.8	10/5/2022	40.45312027	-104.8579425
EX13@5	5	1.3	10/6/2022	40.45317226	-104.8579844
EX13@10	10	3.0	10/5/2022	40.45317129	-104.8579823
EX14@14	14	0.0	10/5/2022	40.45315561	-104.8578647
EX15@14	14	0.0	10/5/2022	40.4532164	-104.8579696
EX17@2.5	2.5	1.3	10/6/2022	40.45323223	-104.8578206
Excavation 2 (Historical Remediation)					
2EX01@14	14	0.4	10/6/2022	40.45310451	-104.8577013
2EX02@14	14	0.2	10/7/2022	40.45302888	-104.8577171
2EX03@6	6	1.8	10/10/2022	40.4530449	-104.8578292
2EX03@12	12	2.7	10/10/2022	40.45304444	-104.8578305
2EX04@14	14	0.0	10/10/2022	40.45311459	-104.8577847
2EX05@6	6	1.0	10/10/2022	40.45309665	-104.857815
2EX05@12	12	0.0	10/10/2022	40.4530982	-104.8578135



**TABLE 1**  
**Soil Sample and Field Screening Information**  
**Mershon Pad Facility Closure. Weld County, CO**

Sample Information					
Sample ID	Depth	PID Readings	Sample Date	Latitude	Longitude
Units -->	ft-bgs	ppm	mm/dd/yyyy	Decimal Degree (NAD83)	
2EX06@6	6	0.0	10/10/2022	40.45314573	-104.8577819
2EX06@12	12	0.0	10/10/2022	40.45314613	-104.857784
2EX07@6	6	0	10/11/2022	40.45320498	-104.8577803
2EX07@12	12	0.8	10/11/2022	40.45320498	-104.8577799
2EX08@6	6	0	10/11/2022	40.45323756	-104.8577194
2EX08@12	12	2.7	10/11/2022	40.45323425	-104.8577201
2EX09@6	6	0	10/12/2022	40.45319102	-104.8576247
2EX09@12	12	48.5	10/12/2022	40.45319079	-104.8576248
2EX10@6	6	0	10/12/2022	40.45313457	-104.857606
2EX10@12	12	0	10/12/2022	40.45313753	-104.8576047
2EX11@6	6	0	10/12/2022	40.45306784	-104.8576058
2EX11@12	12	2.8	10/12/2022	40.45306882	-104.8576028
2EX12@6	6	38.7	10/12/2022	40.4530301	-104.8576436
2EX12@12	12	8.1	10/12/2022	40.45303122	-104.8576385
2EX13@6	6	0	10/12/2022	40.45301427	-104.8577157
2EX13@12	12	5	10/12/2022	40.45301588	-104.8577159
2EX14@6	6	2.6	10/12/2022	40.45302524	-104.8577778
2EX14@12	12	9.2	10/12/2022	40.45302457	-104.8577761
2EX15@2.5	2.5	0	10/12/2022	40.45323308	-104.8576954
2EX18@6	6	4.7	10/12/2022	40.4532226	-104.8576601
2EX18@12	12	9.9	10/12/2022	40.45322099	-104.8576569
2EX19@14	14	0.2	10/12/2022	40.45305386	-104.8576443
2EX20@14	14	0.2	10/12/2022	40.45317244	-104.8576401
2EX21@14	14	0	10/12/2022	40.45320027	-104.8577346
2EX22@15	15	2.9	10/19/2022	40.45310354	-104.8577002
2EX23@6	6	0.0	10/21/2022	40.4529749	-104.8576804
2EX23@12	12	5.5	10/21/2022	40.4529753	-104.857683
2EX24@6	6	1.6	10/21/2022	40.45298592	-104.857621
2EX24@12	12	1.5	10/21/2022	40.45298983	-104.8576209
2EX25@6	6	1.5	10/21/2022	40.45321424	-104.8575727
2EX25@12	12	41.7	10/21/2022	40.45321467	-104.8575701
2EX26@6	6	2.5	10/21/2022	40.45316099	-104.8575577
2EX26@12	12	96.1	10/21/2022	40.45315805	-104.8575579
2EX27@6	6	2.5	10/21/2022	40.45310662	-104.857564
2EX27@12	12	167.7	10/21/2022	40.45310293	-104.8575642
2EX28@6	6	1.6	10/21/2022	40.45305491	-104.8575678
2EX28@12	12	4.1	10/21/2022	40.45305165	-104.8575675
2EX29@6	6	2.6	10/21/2022	40.45300446	-104.8575709
2EX29@12	12	1.9	10/21/2022	40.45300029	-104.8575705
Excavation 3 (Separator Dump Line)					
WC01@5	5	1390	9/27/2022	40.45272017	-104.8576503
3EX01@13	13	37.2	10/13/2022	40.45270607	-104.8576788
3EX02@13	13	36.4	10/13/2022	40.45271111	-104.8577373
3EX03@6	6	2.4	10/13/2022	40.45270758	-104.8578353





**TABLE 1**  
**Soil Sample and Field Screening Information**  
**Mershon Pad Facility Closure. Weld County, CO**

Sample Information					
Sample ID	Depth	PID Readings	Sample Date	Latitude	Longitude
Units -->	ft-bgs	ppm	mm/dd/yyyy	Decimal Degree (NAD83)	
3EX03@11	11	2.9	10/13/2022	40.45270291	-104.8578351
3EX04@13	13	2.5	10/13/2022	40.45271449	-104.8577892
3EX05@6	6	0.3	10/14/2022	40.45269725	-104.8576053
3EX05@11	11	0.0	10/14/2022	40.4526938	-104.8576082
3EX06@6	6	3.1	10/14/2022	40.45266749	-104.8576636
3EX06@11	11	28.2	10/14/2022	40.4526675	-104.857664
3EX07@6	6	1.5	10/17/2022	40.45263724	-104.8578263
3EX07@11	11	2.7	10/17/2022	40.45263678	-104.8578252
3EX08@6	6	1.7	10/17/2022	40.45262062	-104.8577614
3EX08@11	11	3.8	10/17/2022	40.45262104	-104.8577647
3EX09@6	6	3.9	10/17/2022	40.45265271	-104.8577203
3EX09@11	11	1.8	10/17/2022	40.45265349	-104.8577169
3EX10@6	6	1.7	10/18/2022	40.45275974	-104.857606
3EX10@11	11	5.2	10/18/2022	40.45275932	-104.8576086
3EX11@6	6	0	10/18/2022	40.4527777	-104.8577604
3EX11@11	11	0	10/18/2022	40.45277819	-104.8577572
3EX12@13	13	0.3	10/18/2022	40.45276676	-104.8576814
3EX13@13	13	0.5	10/18/2022	40.45275555	-104.8577891
3EX14@6	6	1.5	10/18/2022	40.45276781	-104.8578295
3EX14@11	11	1.8	10/18/2022	40.45276649	-104.8578295
3EX15@6	6	0.0	10/19/2022	40.45278448	-104.857678
3EX15@11	11	0.0	10/19/2022	40.45278459	-104.8576771
3EX19@2.5	2.5	0	10/19/2022	40.45267281	-104.8578345
3EX20@13	13	0.0	10/19/2022	40.45264123	-104.8577773
Groundwater					
GW01	~14	NA	10/6/2022	40.45316737	-104.8578754
GW02	~14	NA	10/6/2022	40.4530859	-104.857685
GW03	~14	NA	10/19/2022	40.45273877	-104.8577199

Notes:

ft-bgs: feet below ground surface

PID: photoionization detector

ppm: parts per million

NM: not measured

NA: not applicable





TABLE 2  
Mershon Pad Facility Closure. Weld County, CO  
Soil Analytical Results Summary Table - Organics

Sample Information				BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg							mg/kg			
COGCC RSSL -->				1.2	490	5.8	58	2	30	27	500	500	500	500
COGCC GWSSL -->				0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
Facility Closure Sampling														
AST01@2	2	9/20/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
AST02@2	2	9/20/2022	4.1	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
AST03@0.5	0.5	9/20/2022	39.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	0.0092	0.020	1.6	<50	<50	1.6
AST03@1.5	1.5	9/21/2022	1.5	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
AST04@0.5	0.5	9/20/2022	2.2	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
AST05@0.5	0.5	9/20/2022	5.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	0.0052	<0.00500	0.64	<50	<50	<100.5
AST06@0.5	0.5	9/20/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
AST07@1	1	9/20/2022	1.1	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
SEP01-FL@4	4	9/20/2022	1.8	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
SEP01-DL@4	4	9/20/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
SEP02-FL@4	4	9/20/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
SEP02-DL@4	4	9/20/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
PWV01@5	5	9/21/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
FLR01@3	3	9/21/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
FLR02@3	3	9/21/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
FLR03@4	4	9/21/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
WDL01@2	2	9/21/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
WH01@5.5	5.5	9/21/2022	0.9	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
WH02@6	6	9/21/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
WH03@6.5	6.5	9/21/2022	0.0	<0.00200	<0.00500	<0.00500	<0.010	<0.0038	<0.00500	<0.00500	<0.50	<50	<50	<100.5
SS1@0.5	0.5	9/23/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
SS2@0.5	0.5	9/23/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
Excavation 1 (Northwest Excavation)														
WC02@5	5	10/4/2022	1550	<0.0020	<0.0050	0.044	0.41	0.22	6.9	2.6	340	3000	240	3580
EX01@14	14	10/4/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX02@14	14	10/4/2022	3.6	<0.0020	<0.0050	0.011	<0.010	0.0042	0.017	<0.0050	0.62	<50	<50	<100.5
EX02@14.5	14.5	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX03@14	14	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX04@5	5	10/6/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX04@10	10	10/5/2022	2.6	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX05@5	5	10/6/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX05@10	10	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX06@5	5	10/6/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX06@10	10	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX07@5	5	10/6/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX07@10	10	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX08@5	5	10/6/2022	0.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5



**TABLE 2**  
**Mershon Pad Facility Closure. Weld County, CO**  
**Soil Analytical Results Summary Table - Organics**

Sample Information				BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg							mg/kg			
COGCC RSSL -->				1.2	490	5.8	58	2	30	27	500	500	500	500
COGCC GWSSL -->				0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
EX08@10	10	10/5/2022	0.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX09@5	5	10/6/2022	0.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX09@10	10	10/5/2022	6.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX10@5	5	10/6/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX10@10	10	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX11@5	5	10/6/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX11@10	10	10/5/2022	1.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX12@5	5	10/6/2022	0.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX12@10	10	10/5/2022	2.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX13@5	5	10/6/2022	1.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX13@10	10	10/5/2022	3.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX14@14	14	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
EX15@14	14	10/5/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
Excavation 2 (Historical Remediation)														
2EX01@14	14	10/6/2022	0.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX02@14	14	10/7/2022	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX03@6	6	10/10/2022	1.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX03@12	12	10/10/2022	2.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX04@14	14	10/10/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX05@6	6	10/10/2022	1.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX05@12	12	10/10/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX06@6	6	10/10/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX06@12	12	10/10/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX07@6	6	10/11/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX07@12	12	10/11/2022	0.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX08@6	6	10/11/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX08@12	12	10/11/2022	2.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX09@6	6	10/12/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX09@12	12	10/12/2022	48.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX10@6	6	10/12/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX10@12	12	10/12/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX11@6	6	10/12/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX11@12	12	10/12/2022	2.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX12@6	6	10/12/2022	38.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX12@12	12	10/12/2022	8.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX13@6	6	10/12/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX13@12	12	10/12/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX14@6	6	10/12/2022	2.6	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX14@12	12	10/12/2022	9.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5



**TABLE 2**  
**Mershon Pad Facility Closure, Weld County, CO**  
**Soil Analytical Results Summary Table - Organics**

Sample Information				BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg							mg/kg			
COGCC RSSL -->				1.2	490	5.8	58	2	30	27	500	500	500	500
COGCC GWSSL -->				0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
2EX18@6	6	10/12/2022	4.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX18@12	12	10/12/2022	9.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX19@14	14	10/12/2022	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX20@14	14	10/12/2022	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX21@14	14	10/12/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX22@15	15	10/19/2022	2.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX23@6	6	10/21/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX23@12	12	10/21/2022	5.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX24@6	6	10/21/2022	1.6	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX24@12	12	10/21/2022	1.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX25@6	6	10/21/2022	1.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX25@12	12	10/21/2022	41.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX26@6	6	10/21/2022	2.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX26@12	12	10/21/2022	96.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	170	<50	<100.5
2EX27@6	6	10/21/2022	2.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX27@12	12	10/21/2022	167.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX28@6	6	10/21/2022	1.6	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX28@12	12	10/21/2022	4.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX29@6	6	10/21/2022	2.6	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
2EX29@12	12	10/21/2022	1.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
Excavation 3 (Separator Dump Line)														
WC01@5	5	9/27/2022	1390	<0.0020	<0.0050	<0.0050	0.015	<0.0038	0.015	<0.0050	0.52	250	<50	250.52
3EX01@13	13	10/13/2022	37.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX02@13	13	10/13/2022	36.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX03@6	6	10/13/2022	2.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX03@11	11	10/13/2022	2.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX04@13	13	10/13/2022	2.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX05@6	6	10/14/2022	0.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX05@11	11	10/14/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX06@6	6	10/14/2022	3.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX06@11	11	10/14/2022	28.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX07@6	6	10/17/2022	1.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX07@11	11	10/17/2022	2.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX08@6	6	10/17/2022	1.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX08@11	11	10/17/2022	3.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX09@6	6	10/17/2022	3.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX09@11	11	10/17/2022	1.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX10@6	6	10/18/2022	1.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5



**TABLE 2**  
**Mershon Pad Facility Closure. Weld County, CO**  
**Soil Analytical Results Summary Table - Organics**

Sample Information				BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg							mg/kg			
COGCC RSSL -->				1.2	490	5.8	58	2	30	27	500	500	500	500
COGCC GWSSL -->				0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
3EX10@11	11	10/18/2022	5.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX11@6	6	10/18/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX11@11	11	10/18/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX12@13	13	10/18/2022	0.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX13@13	13	10/18/2022	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX14@6	6	10/18/2022	1.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX14@11	11	10/18/2022	1.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX15@6	6	10/19/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX15@11	11	10/19/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
3EX20@13	13	10/19/2022	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
Stockpile Composite Samples														
C01	NA	10/12/2022	NA	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5
C02	NA	10/21/2022	NA	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.5

Notes:

Waste Characterization Sample

Removed by Excavation

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

TPH - Total Petroleum Hydrocarbons

PID - Photo Ionization Detector

TMB - Trimethylbenzene

ft-bgs - feet below ground surface

ppm - parts per million

COGCC - Colorado Oil and Gas Conservation Commission

BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene

RSSL - Residential Soil Screening Level

GWSSL - Groundwater Soil Screening Level

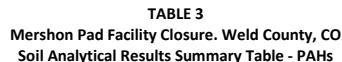
< - indicates result is below the laboratory reporting limit

mg/kg - milligrams per kilogram

Red- Above COGCC Table 915-1 GWSSL







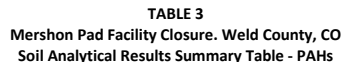




TABLE 3  
Mershon Pad Facility Closure, Weld County, CO  
Soil Analytical Results Summary Table - PAHs

Sample Information				PAHs													
Sample ID	Depth	Sample Date	PID Field Screening	Acenaphthene	Anthracene	Benz(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-methylnaphthalene	2-methylnaphthalene	Pyrene
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg													
COGCC RSSL -->				360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC GWSSL -->				0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
Excavation 3 (Separator Dump Line)																	
WC01@5	5	9/27/2022	1390	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0337	<0.00500	<0.00500	0.115	<0.00500	0.934	1.75	0.0108	
3EX01@13	13	10/13/2022	37.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX02@13	13	10/13/2022	36.4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX03@6	6	10/13/2022	2.4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX03@11	11	10/13/2022	2.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX04@13	13	10/13/2022	2.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX05@6	6	10/14/2022	0.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX05@11	11	10/14/2022	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX06@6	6	10/14/2022	3.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX06@11	11	10/14/2022	28.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX07@6	6	10/17/2022	1.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX07@11	11	10/17/2022	2.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX08@6	6	10/17/2022	1.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX08@11	11	10/17/2022	3.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX09@6	6	10/17/2022	3.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX09@11	11	10/17/2022	1.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX10@6	6	10/18/2022	1.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX10@11	11	10/18/2022	5.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX11@6	6	10/18/2022	0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX11@11	11	10/18/2022	0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX12@13	13	10/18/2022	0.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX13@13	13	10/18/2022	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX14@6	6	10/18/2022	1.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX14@11	11	10/18/2022	1.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX15@6	6	10/19/2022	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX15@11	11	10/19/2022	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
3EX20@13	13	10/19/2022	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

Waste Characterization Sample

Removed by Excavation

ft-bgs - feet below ground surface

PID - Photo Ionization Detector

ppm - parts per million

mg/kg - milligrams per kilogram

Red- Above COGCC Table 915-1 GWSSL

COGCC - Colorado Oil and Gas Conservation Commission

RSSL - Residential Soil Screening Level

GWSSL - Groundwater Soil Screening Level

< - indicates result is below the laboratory reporting limit

NA - not analyzed





**TABLE 4**  
**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 Highest Background Level				NA				9.96	149	NA	NA	NA	NA	NA	1.88	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
BKG01@1	1	9/27/2022	NM	0.290	0.628	8.30	0.235	7.97	119						1.50		
BKG01@3	3	9/27/2022	NM	0.486	1.27	8.23	0.101		68.1								
BKG01@5	5	9/27/2022	NM	1.66	1.49	8.08	0.124		57.6								
BKG01@8	8	9/27/2022	NM	2.96	2.13	7.94	0.155	4.60	85.0						1.10		
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





TABLE 4  
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 Highest Background Level				NA				9.96	149	NA	NA	NA	NA	NA	1.88	NA	NA
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										
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





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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 Highest Background Level				NA				9.96	149	NA	NA	NA	NA	NA	1.88	NA	NA
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
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



**TABLE 4**  
**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 Highest Background Level				NA				9.96	149	NA	NA	NA	NA	NA	1.88	NA	NA
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 5**  
**Groundwater Grab Sample Analytical Results Summary**  
**Mershon Pad Facility Closure. Weld County, CO**

Sample Information			Organic Compounds in Groundwater						
Sample ID	Depth	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB
Units -->	ft-bgs	mm/dd/yyyy	µg/l						
COGCC Table 915-1 Standard -->			5	560	700	1,400	140	67	67
GW01	~14	10/4/2022	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
GW02	~14	10/6/2022	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
GW03	~14	10/18/2022	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00

Notes:

ft-bgs - feet below ground surface

µg/l - micrograms per liter

COGCC - Colorado Oil and Gas Conservation Commission

~ - denotes approximation

TMB - Trimethylbenzene

< - indicates result is less than laboratory reporting limit

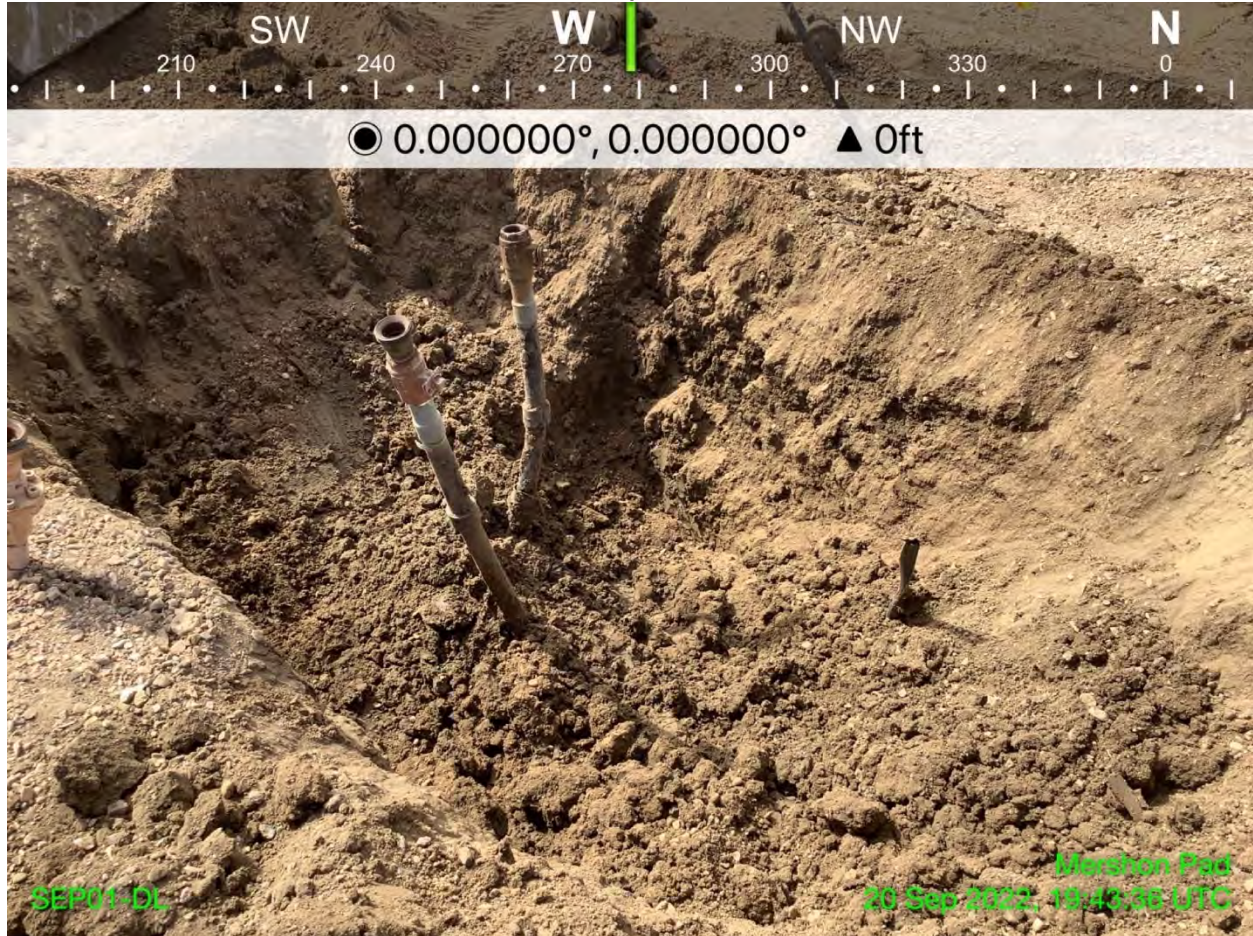


**ATTACHMENT A**  
**PHOTOGRAPHIC LOG**

# Mershon Production Facility Closure - Photographic Log

## FACILITY CLOSURE

Material that was later removed as part of the excavations not included





# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log



# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log



# Mershon Production Facility Closure - Photographic Log



# Mershon Production Facility Closure - Photographic Log





Tank G  
9/22/2022





Entrada Consulting Group  
November 2022



# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log



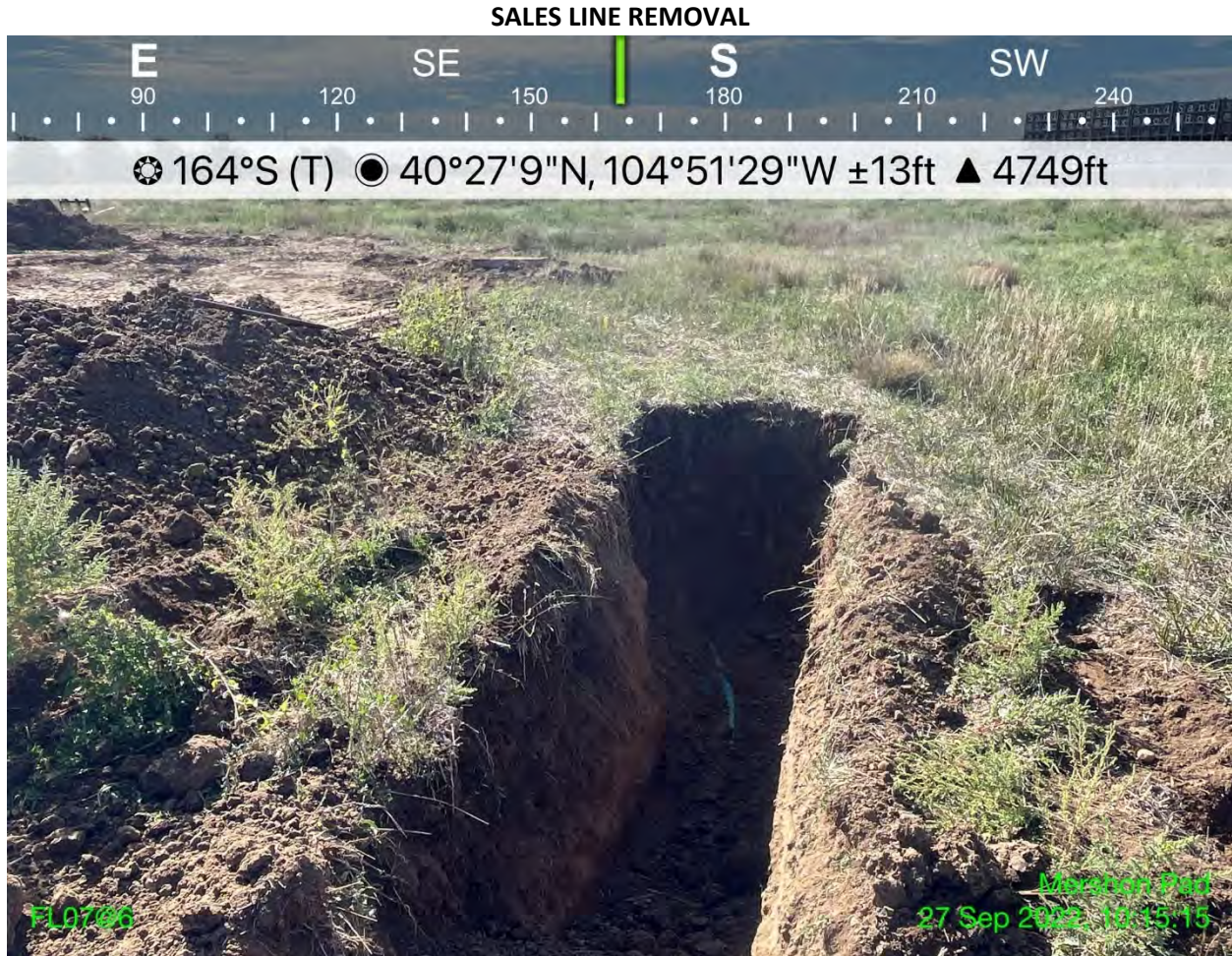


# Mershon Production Facility Closure - Photographic Log



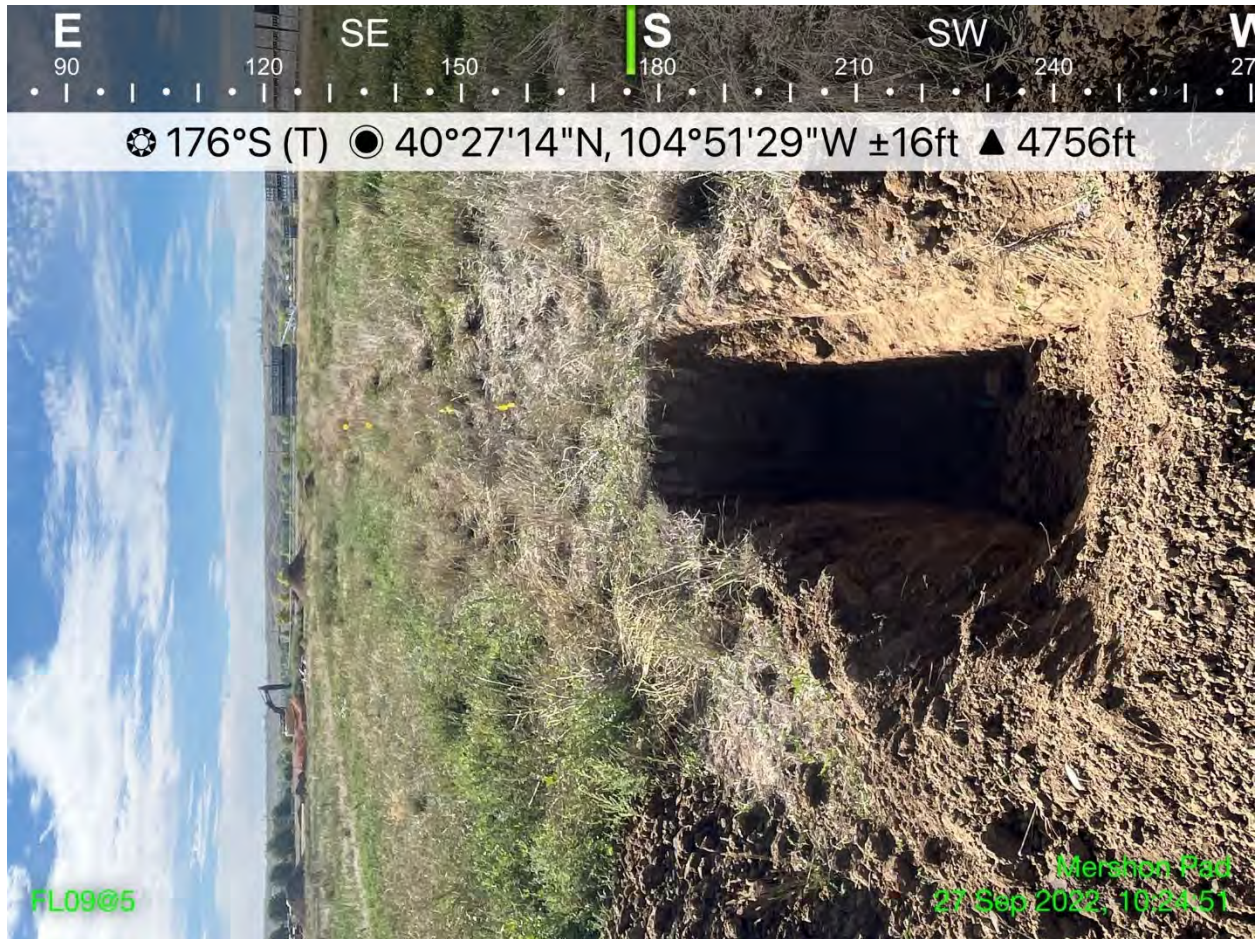


Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log



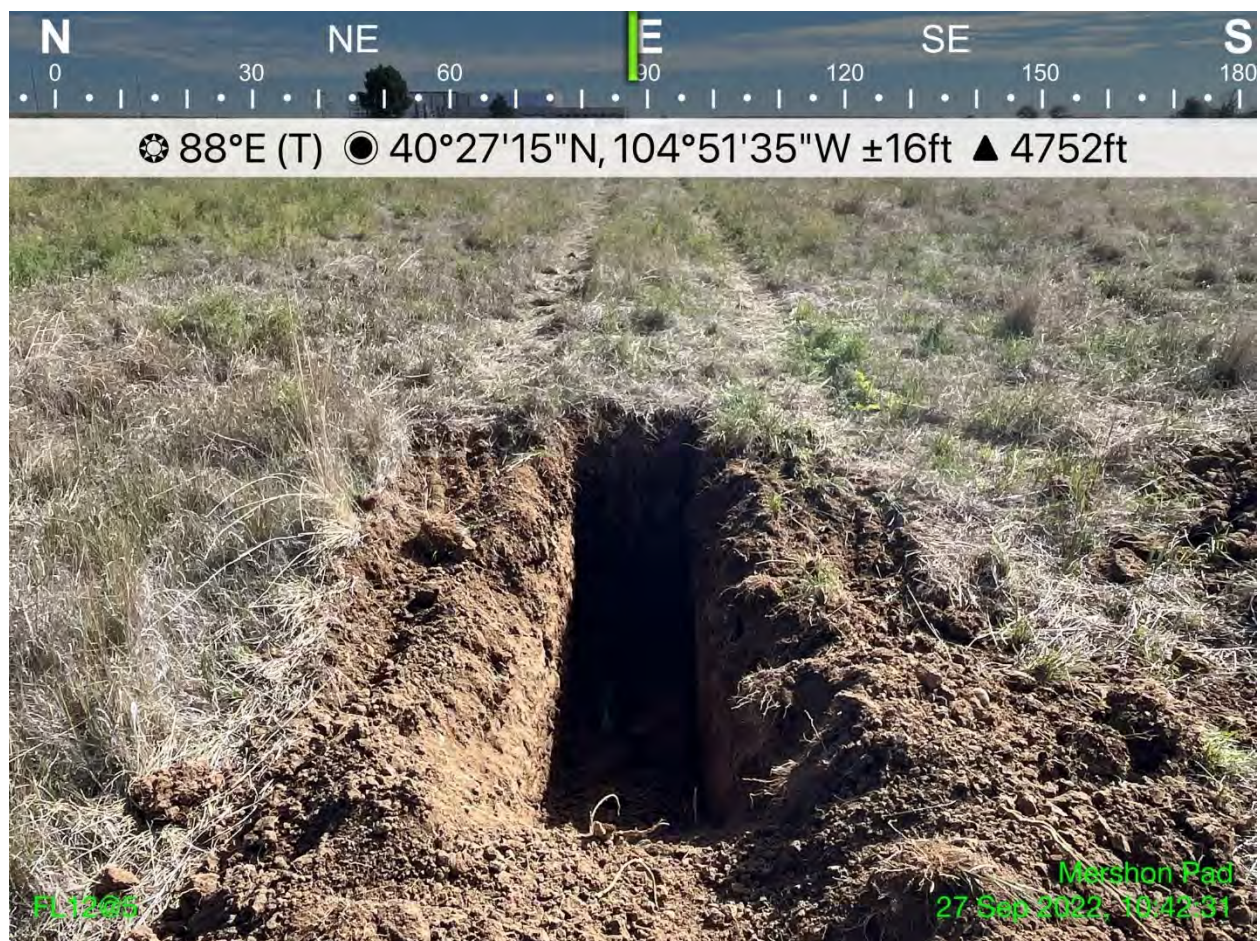


Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log

FINAL EXTENTS OF EXCAVATION 1



Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log

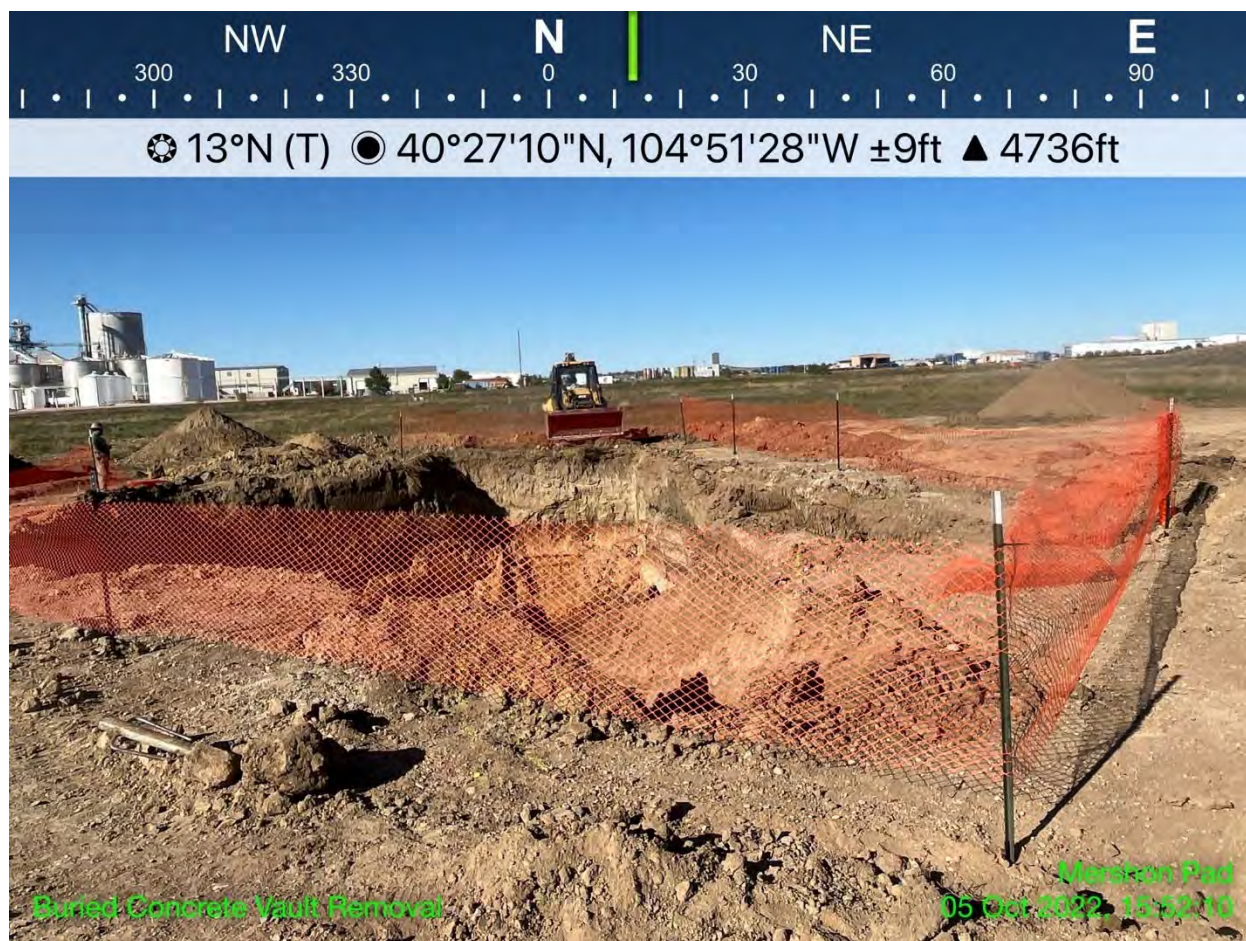




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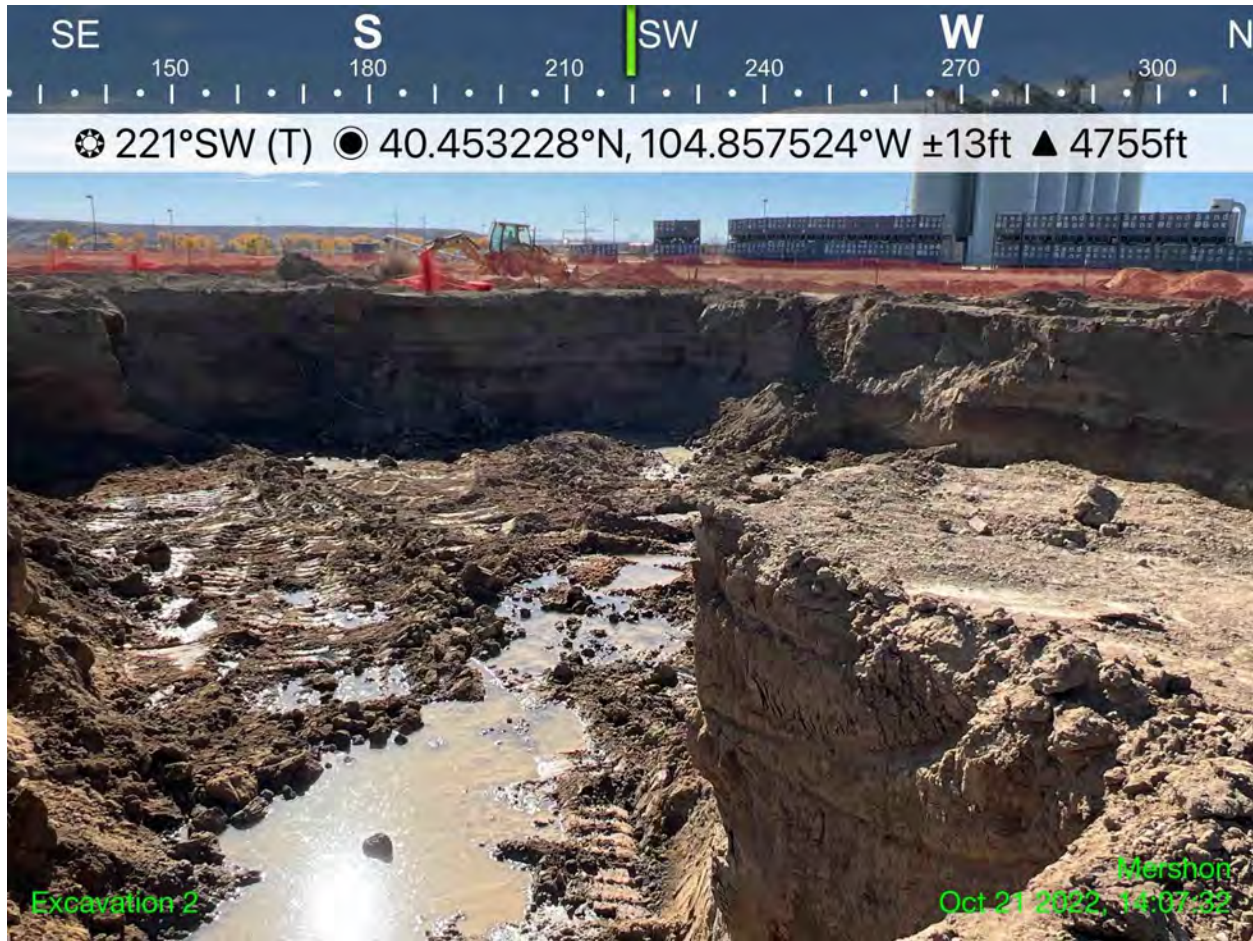
# Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log

FINAL EXTENTS OF EXCAVATION 2





# Mershon Production Facility Closure - Photographic Log



Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log





# Mershon Production Facility Closure - Photographic Log



Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log

FINAL EXTENTS OF EXCAVATION 3

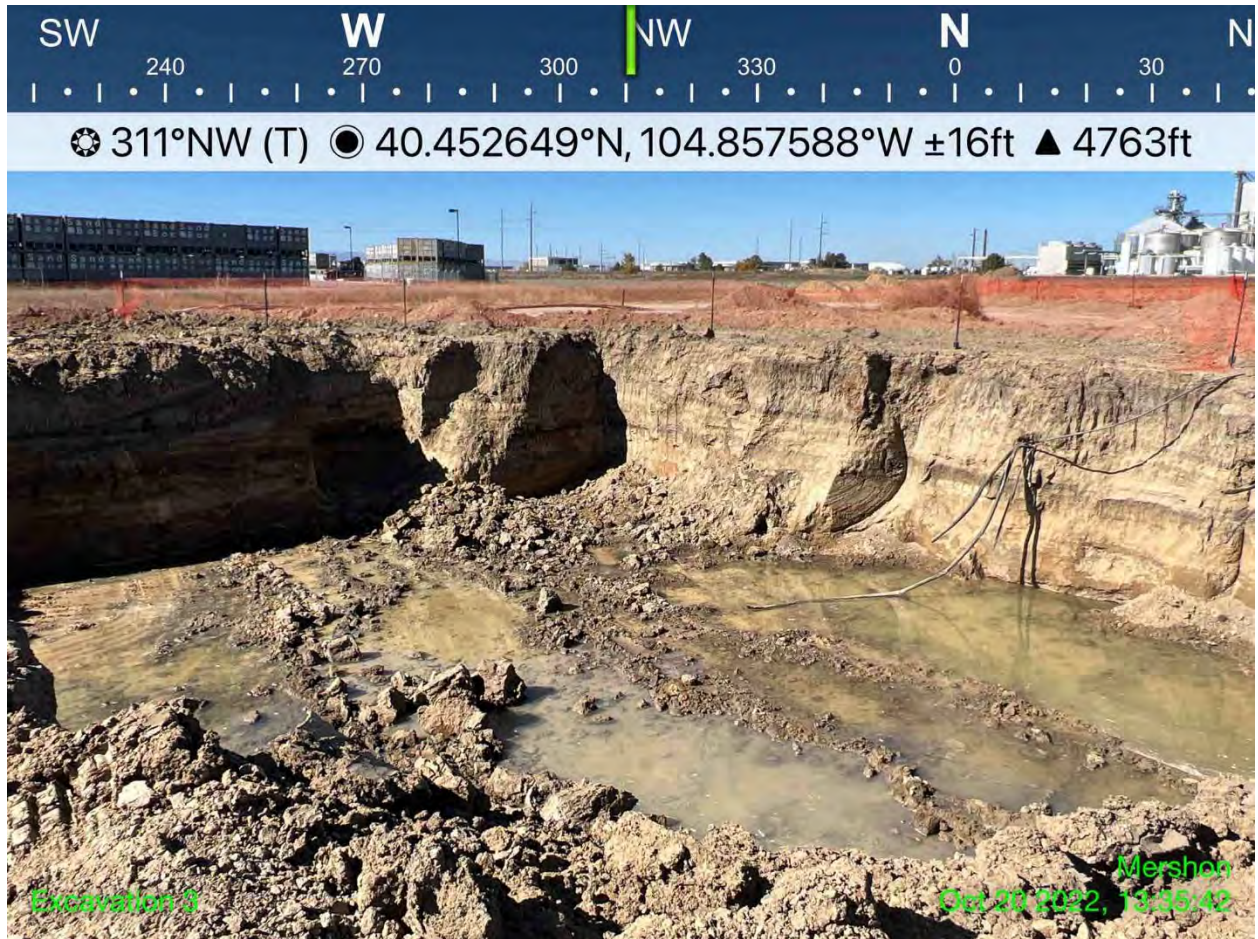




Mershon Production Facility Closure - Photographic Log



Mershon Production Facility Closure - Photographic Log



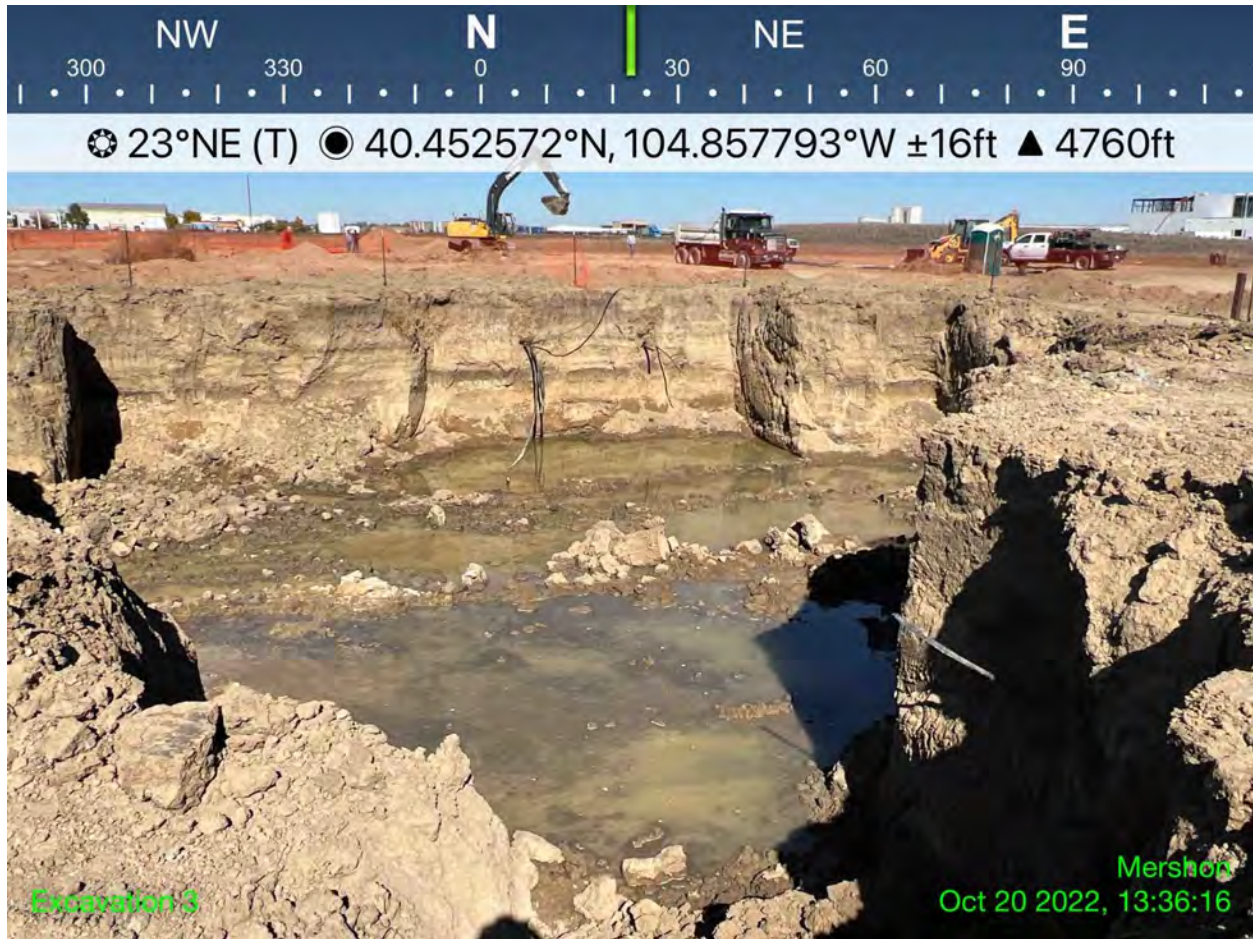


# Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log



Mershon Production Facility Closure - Photographic Log





Mershon Production Facility Closure - Photographic Log





**ATTACHMENT B**  
**FACILITY CLOSURE CHECKLISTS**

# Tank Battery Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Mershon Pad 1, #333258		Date: 9/20/2022-10/21/2022						Remediation Project #: 24760
Associated Wells: Great Western 26-44, Great Western 35-31, Great Western 35-41		Age of Site: 10/3/2008, 10/15/2008, 10/9/2008 - Spud Dates						Number of Photos Attached: 43
Location: (GPS coordinates of southeaster berm)		40.453039, -104.857612						Estimated Facility Size (acres): ~1
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Overall Good								
USCS Soil Type: SC, SW, ML, SM, SP, GW, GM, GC, CL					Estimated Depth to Groundwater: ~14 ft-bgs			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Yes. Hydrocarbon impacts from historical release near AST 03-07, as well as discovered historical buried concrete vault beneath AST01 and AST02.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None								
<b>Tanks</b>								
Tank Contents	Crude							
Size (barrels)	Unknown							
Age	Unknown							
Construction Material	Steel							
Tank type (AST/BBU, etc.)	AST 01-07							
Visual Integrity of Tank	Good							
Condition of tank footprint	Good							
PID Readings	1550 ppm							
Soil impacts present at valves or hatches?	None							
PID Readings	N/a							
Sample taken? Location/ Sample ID#	EX01-EX15, and 2EX01-2EX29							
Photo Number(s)	6-12 and 26-36							
Other observations regarding tanks:								
Initial facility closure samples did not exhibit hydrocarbon impacts apart from AST03, which was removed during excavation of historical hydrocarbon release.								
<b>Separators</b>								
Separator size	Unknown							
Vertical or Horizontal	Horizontal							
Age	Unknown							
Soil impacts observed? If yes, where?	Yes, during excavation of nearby release							
PID Readings	1390 ppm							
Sample taken? Location/ Sample ID#	1-2, and 37-43							
Photo Number(s)	37-43							
Other observations regarding separators								
Initial facility closure samples did not exhibit any hydrocarbon releases. A nearby release east of separator 2 extended to the area.								
<b>Third Party Equipment</b>								
Type	N/a							
Age								



Third Party														
Removal Date														
Sample taken?														
PID Readings														
Photo Number(s)														
<b>Other Facility Equipment</b>														
Equipment type	ECD													
Equipment Condition	Good													
Age	Unknown													
Soil impacts observed during	None													
PID Readings	0.0													
Sample taken?	ECD01@0-6"													
Photo Number(s)	N/a													
Other observations regarding other facility or third party equipment:														
None														
<b>Summary</b>														
Was impacted soil identified?														
<div> <div>No</div> <div>Yes - less than 10 cubic yards</div> <div>Yes - more than 10 cubic yards</div> </div>														
Total number of samples field screened: 115					Total number of samples collected: 113									
Highest PID Reading: 1550 ppm					Total number of samples submitted to lab for analysis: 113									
If more than 10 cubic yards of impacted soil were observed:														
Vertical extent: ~15 ft-bgs					Estimated spill volume: Unknown									
Lateral extent: ~11,500 total square feet					Volume of soil removed: 5,860 yards total									
Is additional investigation required? No														
Was groundwater encountered during the investigation?														
<div> <div>No</div> <div>Yes - not impacted or in contact with impacted soils</div> <div>Yes - groundwater impacted and/or in contact with impacted soils</div> </div>														
Measured depth to groundwater: ~ 14 ft-bgs					Was remedial groundwater removal conducted? Yes No									
Date Groundwater was encountered: 10/6/2022, 10/19/2022					Commencement date of removal: 10/10/2022									
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling: None									
Free product observed? Yes No					Volume of groundwater removed post sampling: 100 bbls									
Total number of samples collected: 3					Total Volume of groundwater removed: 100 bbls									
Total number of samples submitted to lab for analysis: 3														

# Buried or Partially Buried Vessel Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure
Site Name & COGCC Facility Number: Merston Pad 1, #333258		Date: 9/20/2022-10/21/2022						Remediation Project #: 24760
Associated Wells: Great Western 26-44, Great Western 35-31, Great Western 35-41		Age of Site: 10/3/2008, 10/15/2008, 10/9/2008 - Spud Dates						Number of Photos Attached: 43
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.453085, -104.857713							Estimated Facility Size (acres): ~1	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good Overall								
USCS Soil Type: SW					Estimated Depth to Groundwater: ~14 ft-bgs			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Yes, as investigating a historical release ~3,460 yards of impacted soil was hauled off. However, initial closure samples did not exhibit any hydrocarbon impacts.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None								
Buried or Partially Buried Vessels								
Tank Contents	Produced Water							
Size (barrels)	Unknown							
Age	Unknown							
Construction Material	Fiberglass							
Visual Integrity of Tank	Good							
Condition of tank	Good							
PID Readings	0.0 ppm							
Condition of dump line	Good							
PID Readings	0.0 ppm							
Sample taken? Location/Sample ID#	PWV01@5, PWV01-N@2, PWV01-E@2, PWV01-W@2, WLD01@2							
Photo Number(s)	31-36							
Other observations regarding partially buried vessels:								
None								
Summary								
Was impacted soil identified?								
No		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards				
Total number of samples field screened: 46				Total number of samples collected: 46				
Highest PID Reading: 167.7 ppm				Total number of samples submitted to lab for analysis: 46				
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent: ~15 ft-bgs				Estimated spill volume: Unknown				
Lateral extent: ~5,515 square feet				Volume of soil removed: 3,180 yards				
Is additional investigation required?								
No								
Was groundwater encountered during the investigation?								
No		Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater: ~14 ft-bgs				Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered: 10/6/2022				Commencement date of removal: 10/10/2022				
Sheen on groundwater?		Yes No		Volume of groundwater removed prior to sampling: None				
Free product observed?		Yes No		Volume of groundwater removed post sampling: 45 bbls				
Total number of samples collected: 1				Total Volume of groundwater removed: 45 bbls				
Total number of samples submitted to lab for analysis: 1								

Wellhead Closure Checklist						
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form						
Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure
Site Name & COGCC Facility Number: Mershon Pad 1, #333258		Date: 9/20/2022-10/21/2022				Remediation Project #: 24760
Associated Wells: Great Western 26-44, Great Western 35-31, Great Western 35-41		Age of Site: 10/3/2008, 10/15/2008, 10/9/2008 - Spud Dates				Number of Photos Attached: 43
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.45253, -104.85742	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						Estimated Facility Size (acres): ~ 1
Good Overall						
USCS Soil Type: ML				Estimated Depth to Groundwater: ~14 ft-bgs		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None						
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None						
Wellhead(s)						
Well API	05-123-26198	05-123-26339	05-123-26338			
Age	10/3/2008	10/15/2008	10/9/2008			
Condition of surface around wellhead	Good	Good	Good			
PID Readings	0.9 ppm	0.0 ppm	0.0 ppm			
Condition of subsurface (staining present)	Good	Good	Good			
PID Readings	0.0 ppm	0.0 ppm	0.0 ppm			
Sample taken? Location/Sample ID#	WH03@6.5, FLR03@4	WH01@5.5, FLR01@3	WH02@6, FLR02@3			
Photo Number(s)	5	3	4			
Other observations regarding wellheads:						
None						
Summary						
Was impacted soil identified?						
<input checked="" type="checkbox"/> No      Yes - less than 10 cubic yards      Yes - more than 10 cubic yards						
Total number of samples field screened: 15				Total number of samples collected: 6		
Highest PID Reading: 0.9 ppm				Total number of samples submitted to lab for analysis: 6		
If more than 10 cubic yards of impacted soil were observed: N/a						
Vertical extent:				Estimated spill volume:		
Lateral extent:				Volume of soil removed:		
Is additional investigation required?						
Was groundwater encountered during the investigation?						
<input checked="" type="checkbox"/> No      Yes - not impacted or in contact with impacted soils      Yes - groundwater impacted and/or in contact with impacted soils						
Measured depth to groundwater: N/a				Was remedial groundwater removal conducted? Yes <input checked="" type="checkbox"/> No		
Date Groundwater was encountered:				Commencement date of removal:		
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:		
Free product observed? Yes No				Volume of groundwater removed post sampling:		
Total number of samples collected:				Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:						



# Flowline Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Mershon Pad 1, #333258		Date: 9/20/2022-10/21/2022					Remediation Project #: 24760	
Associated Wells: Great Western 26-44, Great Western 35-31, Great Western 35-41		Age of Site: 10/3/2008, 10/15/2008, 10/9/2008 - Spud Dates					Number of Photos Attached: 43	
Starting point: (GPS coordinates and descriptions) Flowline riser soil sample locations provided in Table 1								
End point: (GPS coordinates and descriptions) Flowline riser soil sample locations provided in Table 1								
USCS Soil Type: ML, SM					Estimated Depth to Groundwater: ~14 ft-bgs			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None								
Flowlines								
Flowline type	2" Sales Line	2"						
Depth	~5-6	~4-6						
Age	Unknown	Unknown						
Length	~1,200'	~160'						
Construction Material	Steel	Steel						
Were flowlines pulled?	Yes	Yes						
Visual Integrity of lines	Good	Good						
Visual impacts if trenched	N/a	N/a						
PID Readings if trenched	0.8 ppm	0.0 ppm						
Sample taken? Location/Sample ID#	FL07-FL13	FL01-FL06						
Photo Number(s)	19-24	15-17						
Other observations regarding on location flowlines: None								
Summary								
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 14					Total number of samples collected: 0			
Highest PID Reading: 0.8 ppm					Total number of samples submitted to lab for analysis: 0			
If more than 10 cubic yards of impacted soil were observed: N/a								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater: N/a					Was remedial groundwater removal conducted? Yes <input checked="" type="checkbox"/> No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:			
Free product observed? Yes No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								

**ATTACHMENT C**  
**LABORATORY ANALYTICAL REPORTS**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 03, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2209385

Enclosed are the results of analyses for samples received by Summit Scientific on 09/20/22 14:52. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President





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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@2	2209385-01	Soil	09/20/22 09:50	09/20/22 14:52
AST02@2	2209385-02	Soil	09/20/22 10:00	09/20/22 14:52
AST03@0.5	2209385-03	Soil	09/20/22 10:30	09/20/22 14:52
AST04@0.5	2209385-04	Soil	09/20/22 10:35	09/20/22 14:52
AST05@0.5	2209385-05	Soil	09/20/22 10:40	09/20/22 14:52
AST06@0.5	2209385-06	Soil	09/20/22 11:45	09/20/22 14:52
AST07@1	2209385-07	Soil	09/20/22 11:50	09/20/22 14:52
SEP02FL@4	2209385-08	Soil	09/20/22 12:15	09/20/22 14:52
SEP02DL@4	2209385-09	Soil	09/20/22 12:30	09/20/22 14:52
SEP01FL@4	2209385-10	Soil	09/20/22 13:40	09/20/22 14:52
SEP01DL@4	2209385-11	Soil	09/20/22 13:45	09/20/22 14:52

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.*

22093857

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com ; PDC&HS

City/State/Zip:

cc: cvenyser@entradainc.com

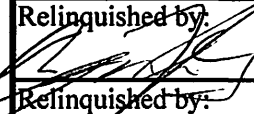
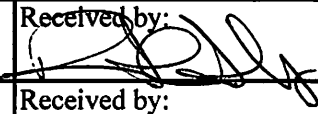
Phone: 804513 0707

Project Name: Merston Pad

Sampler Name: Ben Baugh

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	VOCs	TPH							
1	AST 01 @ 2	9/20/22	950	3			X			X				X	X	X						
2	AST 02 @ 2		1000																			
3	AST 03 @ 0.5		1030																			
4	AST 04 @ 0.5		1035																			
5	AST 05 @ 0.5		1040																			
6	AST 06 @ 0.5		1145																			
7	AST 07 @ 1		1150																			
8	SEP 02 FL @ 4		1215																			
9	SEP 02 DL @ 4		1230																			
10	SEP 01 FL @ 4		1340																			

Relinquished by: 	Date/Time: <u>9/20/22 14:52</u>	Received by: 	Date/Time: <u>9/20/22 1452</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours	
				24 hours	
				48 hours	
Temperature Upon Receipt: <u>12.4</u>	Corrected Temperature <u>0</u>	HNO3 lot #	Sample Integrity:	Samples Intact: Yes No	
IR gun correction: <u>0</u>	IR gun #: <u>1</u>				

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

Client: Entrada Consulting GroupProject Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com ; PDC EHS

City/State/Zip:

CC: cverysr@entradainc.comPhone: 804-513-0707Project Name: Merchon PadSampler Name: Ben Baugh

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	THM'S	TPH								
1	SEP OIDL @4	9/20/22	1345	3			X			X			X	X	X								
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/20/22 14:52</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/20/22 1452</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
				48 hours <u>—</u>	
Temperature Upon Receipt: <u>12.4</u>	Corrected Temperature <u>0</u>	HNO <sub>3</sub> lot #	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>0</u>	IR gun #: <u>1</u>				



S<sub>2</sub>2/2  
Sample Receipt Checklist

S2 Work Order#

2209385

Client: EntradaClient Project ID: Merson PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐
☐ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air ☐Soil/Solid ☒Water ☐Other ☐

Temp (°C)

124

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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 ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
  
Custodian Printed Name

Date/Time

9.20.22 19:55



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

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

**Reported:**  
10/03/22 13:28

**AST01@2**  
**2209385-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0278	69.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0361	90.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.44	59.5 %	30-150		"	"	"	"	

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**AST02@2**  
**2209385-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0283	70.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0358	89.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.61	68.9 %	30-150		"	"	"	"	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**AST03@0.5**  
**2209385-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0092</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.020</b>	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.6</b>	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0310	77.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0376	94.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.50	60.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**AST03@0.5**  
**2209385-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10609	09/23/22	09/23/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0324	97.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.182</b>	0.0100	mg/L	1	BF10688	09/26/22	09/29/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**AST03@0.5**  
**2209385-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.48	0.226	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B
Barium	300	0.452	"	"	"	"	"	"
Cadmium	ND	0.226	"	"	"	"	"	"
Copper	9.10	0.452	"	"	"	"	"	"
Lead	6.87	0.226	"	"	"	"	"	"
Nickel	8.60	0.452	"	"	"	"	"	"
Selenium	0.710	0.294	"	"	"	"	"	"
Silver	0.0349	0.0226	"	"	"	"	"	"
Zinc	34.6	0.452	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0026	10/03/22	10/03/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.7	0.0565	mg/L dry	1	BF10728	09/28/22	10/01/22	EPA 6020B	
Magnesium	15.3	0.0565	"	"	"	"	"	"	
Sodium	132	0.0565	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.92	0.00100	units	1	BFJ0003	10/02/22	10/02/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**AST03@0.5**  
**2209385-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	88.5	%	1	BF10725	09/28/22	09/28/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.43	0.0100	mmhos/cm	1	BF10747	09/28/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/20/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BF10746	09/28/22	09/30/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**AST04@0.5**  
**2209385-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0304	76.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0373	93.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0348	87.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.64	53.1 %	30-150		"	"	"	"	

Summit Scientific

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

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

**Reported:**  
10/03/22 13:28

**AST05@0.5**  
**2209385-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0052</b>	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.64</b>	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0306	76.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.14	57.1 %	30-150		"	"	"	"	

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

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

**Reported:**  
10/03/22 13:28

**AST06@0.5**  
**2209385-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0291	72.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0363	90.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.14	57.1 %	30-150		"	"	"	"	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**AST07@1**  
**2209385-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0306	76.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0340	84.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	92.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.05	56.4 %	30-150		"	"	"	"	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**SEP02FL@4**  
**2209385-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.66	61.3 %	30-150		"	"	"	"	

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

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

**Reported:**  
10/03/22 13:28

**SEP02DL@4**  
**2209385-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0289	72.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0378	94.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10516	09/20/22	09/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.56	60.4 %	30-150		"	"	"	"	

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

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

**Reported:**  
10/03/22 13:28

**SEP01FL@4**  
**2209385-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0515	09/20/22	09/21/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0299	74.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0372	93.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	92.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0516	09/20/22	09/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.52	52.1 %	30-150		"	"	"	"	

Summit Scientific

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/03/22 13:28

**SEP01DL@4**  
**2209385-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0515	09/20/22	09/21/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0307	76.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0446	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0516	09/20/22	09/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.98	55.8 %	30-150		"	"	"	"	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFI0515 - EPA 5030 Soil MS

##### Blank (BFI0515-BLK1)

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0361		"	0.0400		90.3	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	50-150			

##### LCS (BFI0515-BS1)

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	0.162	0.0020	mg/kg	0.125		130	70-130			
Toluene	0.151	0.0050	"	0.125		121	70-130			
Ethylbenzene	0.147	0.0050	"	0.125		117	70-130			
m,p-Xylene	0.283	0.010	"	0.250		113	70-130			
o-Xylene	0.126	0.0050	"	0.125		101	70-130			
1,2,4-Trimethylbenzene	0.141	0.0050	"	0.125		113	70-130			
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.125		117	70-130			
Naphthalene	0.0967	0.0038	"	0.125		77.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.8	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		106	50-150			

##### Matrix Spike (BFI0515-MS1)

Source: 2209384-01

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	0.151	0.0020	mg/kg	0.125	ND	121	70-130			
Toluene	0.152	0.0050	"	0.125	ND	121	70-130			
Ethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130			
m,p-Xylene	0.289	0.010	"	0.250	ND	116	70-130			
o-Xylene	0.128	0.0050	"	0.125	ND	102	70-130			
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130			
1,3,5-Trimethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130			
Naphthalene	0.104	0.0038	"	0.125	ND	83.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0366		"	0.0400		91.4	50-150			
Surrogate: Toluene-d8	0.0425		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

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

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

**Reported:**  
10/03/22 13:28

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0515 - EPA 5030 Soil MS**

Matrix Spike Dup (BFI0515-MSD1)		Source: 2209384-01			Prepared: 09/20/22 Analyzed: 09/21/22					
Benzene	0.160	0.0020	mg/kg	0.125	ND	128	70-130	5.48	30	
Toluene	0.152	0.0050	"	0.125	ND	122	70-130	0.158	30	
Ethylbenzene	0.148	0.0050	"	0.125	ND	119	70-130	0.785	30	
m,p-Xylene	0.286	0.010	"	0.250	ND	114	70-130	1.23	30	
o-Xylene	0.126	0.0050	"	0.125	ND	101	70-130	1.06	30	
1,2,4-Trimethylbenzene	0.142	0.0050	"	0.125	ND	113	70-130	1.41	30	
1,3,5-Trimethylbenzene	0.147	0.0050	"	0.125	ND	117	70-130	1.36	30	
Naphthalene	0.103	0.0038	"	0.125	ND	82.5	70-130	0.522	30	
Surrogate: 1,2-Dichloroethane-d4		0.0379	"	0.0400		94.6	50-150			
Surrogate: Toluene-d8		0.0431	"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene		0.0415	"	0.0400		104	50-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFI0516 - EPA 3550A**

**Blank (BFI0516-BLK1)**

Prepared: 09/20/22 Analyzed: 09/21/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFI0516-BS1)**

Prepared: 09/20/22 Analyzed: 09/21/22

C10-C28 (DRO)	629	50	mg/kg	500	126	70-130
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**Matrix Spike (BFI0516-MS1)**

Source: 2209384-01

Prepared: 09/20/22 Analyzed: 09/21/22

C10-C28 (DRO)	563	50	mg/kg	500	14.8	110	70-130
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**Matrix Spike Dup (BFI0516-MSD1)**

Source: 2209384-01

Prepared: 09/20/22 Analyzed: 09/21/22

C10-C28 (DRO)	566	50	mg/kg	500	14.8	110	70-130	0.574	20
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/03/22 13:28

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFI0609 - EPA 5030 Soil MS

##### Blank (BFI0609-BLK1)

Prepared & Analyzed: 09/23/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0358		"	0.0333		107	40-150			
Surrogate: Fluoranthene-d10	0.0189		"	0.0333		56.7	40-150			

##### LCS (BFI0609-BS1)

Prepared & Analyzed: 09/23/22

Acenaphthene	0.0185	0.00500	mg/kg	0.0333		55.4	31-137			
Anthracene	0.0192	0.00500	"	0.0333		57.7	30-120			
Benzo (a) anthracene	0.0186	0.00500	"	0.0333		55.8	30-120			
Benzo (a) pyrene	0.0183	0.00500	"	0.0333		54.9	30-120			
Benzo (b) fluoranthene	0.0169	0.00500	"	0.0333		50.8	30-120			
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333		52.1	30-120			
Chrysene	0.0152	0.00500	"	0.0333		45.7	30-120			
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333		44.4	30-120			
Fluoranthene	0.0196	0.00500	"	0.0333		58.7	30-120			
Fluorene	0.0187	0.00500	"	0.0333		56.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0169	0.00500	"	0.0333		50.7	30-120			
Pyrene	0.0183	0.00500	"	0.0333		55.0	35-142			
1-Methylnaphthalene	0.0249	0.00500	"	0.0333		74.8	35-142			
2-Methylnaphthalene	0.0271	0.00500	"	0.0333		81.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0336		"	0.0333		101	40-150			
Surrogate: Fluoranthene-d10	0.0195		"	0.0333		58.4	40-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFI0609 - EPA 5030 Soil MS

##### Matrix Spike (BFI0609-MS1)

Source: 2209385-03

Prepared & Analyzed: 09/23/22

Acenaphthene	0.0149	0.00500	mg/kg	0.0333	ND	44.8	31-137		
Anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120		
Benzo (a) anthracene	0.0154	0.00500	"	0.0333	ND	46.3	30-120		
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.6	30-120		
Benzo (b) fluoranthene	0.0136	0.00500	"	0.0333	ND	40.9	30-120		
Benzo (k) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.0	30-120		
Chrysene	0.0140	0.00500	"	0.0333	ND	42.0	30-120		
Dibenz (a,h) anthracene	0.0162	0.00500	"	0.0333	ND	48.6	30-120		
Fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120		
Fluorene	0.0171	0.00500	"	0.0333	0.00329	41.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120		
Pyrene	0.0138	0.00500	"	0.0333	ND	41.5	35-142		
1-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.6	15-130		
2-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.2	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0315		"	0.0333		94.4	40-150		
Surrogate: Fluoranthene-d10	0.0169		"	0.0333		50.6	40-150		

##### Matrix Spike Dup (BFI0609-MSD1)

Source: 2209385-03

Prepared & Analyzed: 09/23/22

Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.9	31-137	8.81	30
Anthracene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	11.4	30
Benzo (a) anthracene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	6.73	30
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	5.96	30
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	13.6	30
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	4.47	30
Chrysene	0.0134	0.00500	"	0.0333	ND	40.1	30-120	4.59	30
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	3.86	30
Fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	14.7	30
Fluorene	0.0143	0.00500	"	0.0333	0.00329	32.9	30-120	18.2	30
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	8.33	30
Pyrene	0.0157	0.00500	"	0.0333	ND	47.1	35-142	12.6	30
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130	3.81	50
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.4	15-130	27.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0285		"	0.0333		85.5	40-150		
Surrogate: Fluoranthene-d10	0.0150		"	0.0333		45.1	40-150		

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0688 - EPA 3050B**

**Blank (BFI0688-BLK1)**

Prepared: 09/26/22 Analyzed: 09/29/22

Boron ND 0.0100 mg/L

**LCS (BFI0688-BS1)**

Prepared: 09/26/22 Analyzed: 09/29/22

Boron 5.13 0.0100 mg/L 5.00 103 80-120

**Duplicate (BFI0688-DUP1)**

Source: 2209141-15

Prepared: 09/26/22 Analyzed: 09/29/22

Boron 0.0993 0.0100 mg/L 0.109 9.14 20

**Matrix Spike (BFI0688-MS1)**

Source: 2209141-15

Prepared: 09/26/22 Analyzed: 09/29/22

Boron 5.05 0.0100 mg/L 5.00 0.109 98.8 75-125

**Matrix Spike Dup (BFI0688-MSD1)**

Source: 2209141-15

Prepared: 09/26/22 Analyzed: 09/29/22

Boron 5.09 0.0100 mg/L 5.00 0.109 99.6 75-125 0.802 25

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

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

**Reported:**  
10/03/22 13:28

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0652 - EPA 3050B**

**Blank (BFI0652-BLK1)**

Prepared: 09/26/22 Analyzed: 09/27/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFI0652-BS1)**

Prepared: 09/26/22 Analyzed: 09/28/22

Arsenic	46.7	0.200	mg/kg wet	40.0	117	80-120
Barium	43.9	0.400	"	40.0	110	80-120
Cadmium	2.20	0.200	"	2.00	110	80-120
Copper	45.0	0.400	"	40.0	112	80-120
Lead	21.5	0.200	"	20.0	107	80-120
Nickel	44.9	0.400	"	40.0	112	80-120
Selenium	4.46	0.260	"	4.00	111	80-120
Silver	2.19	0.0200	"	2.00	109	80-120
Zinc	46.2	0.400	"	40.0	116	80-120

**Duplicate (BFI0652-DUP1)**

Source: 2207358-05

Prepared: 09/26/22 Analyzed: 09/28/22

Arsenic	2.73	0.232	mg/kg dry	2.61	4.51	20
Barium	509	0.465	"	502	1.54	20
Cadmium	0.134	0.232	"	0.131	1.89	20
Copper	8.64	0.465	"	8.46	2.08	20
Lead	5.48	0.232	"	5.23	4.80	20
Nickel	6.40	0.465	"	6.36	0.635	20
Selenium	0.641	0.302	"	0.631	1.57	20
Silver	0.0219	0.0232	"	0.0219	0.0940	20
Zinc	25.7	0.465	"	25.5	1.05	20

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0652 - EPA 3050B**

Matrix Spike (BFI0652-MS1)		Source: 2207358-05			Prepared: 09/26/22 Analyzed: 09/28/22					
Arsenic	56.1	0.232	mg/kg dry	46.5	2.61	115	75-125			
Barium	516	0.465	"	46.5	502	30.5	75-125			QM-02
Cadmium	2.66	0.232	"	2.32	0.131	109	75-125			
Copper	58.4	0.465	"	46.5	8.46	107	75-125			
Lead	29.0	0.232	"	23.2	5.23	102	75-125			
Nickel	57.2	0.465	"	46.5	6.36	109	75-125			
Selenium	5.57	0.302	"	4.65	0.631	106	75-125			
Silver	2.46	0.0232	"	2.32	0.0219	105	75-125			
Zinc	78.8	0.465	"	46.5	25.5	115	75-125			

Matrix Spike Dup (BFI0652-MSD1)		Source: 2207358-05			Prepared: 09/26/22 Analyzed: 09/28/22					
Arsenic	56.4	0.232	mg/kg dry	46.5	2.61	116	75-125	0.510	25	
Barium	558	0.465	"	46.5	502	121	75-125	7.81	25	
Cadmium	2.91	0.232	"	2.32	0.131	120	75-125	9.00	25	
Copper	58.9	0.465	"	46.5	8.46	109	75-125	0.942	25	
Lead	31.2	0.232	"	23.2	5.23	112	75-125	7.48	25	
Nickel	57.5	0.465	"	46.5	6.36	110	75-125	0.569	25	
Selenium	5.78	0.302	"	4.65	0.631	111	75-125	3.70	25	
Silver	2.69	0.0232	"	2.32	0.0219	115	75-125	8.72	25	
Zinc	79.4	0.465	"	46.5	25.5	116	75-125	0.752	25	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0026 - 3060A Mod**

**Blank (BFJ0026-BLK1)**

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0026-BS1)**

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 100 80-120

**Duplicate (BFJ0026-DUP1)**

**Source: 2209335-01**

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0026-MS1)**

**Source: 2209335-01**

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 24.7 0.30 mg/kg dry 26.7 ND 92.6 75-125

**Matrix Spike Dup (BFJ0026-MSD1)**

**Source: 2209335-01**

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 29.3 0.30 mg/kg dry 26.7 ND 110 75-125 16.8 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFI0728 - General Preparation**

**Blank (BFI0728-BLK1)**

Prepared: 09/28/22 Analyzed: 10/01/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFI0728-BS1)**

Prepared: 09/28/22 Analyzed: 10/01/22

Calcium	5.83	0.0500	mg/L wet	5.00	117	70-130
Magnesium	5.57	0.0500	"	5.00	111	70-130
Sodium	5.36	0.0500	"	5.00	107	70-130

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

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

**Summit Scientific**

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

**Batch BFI0725 - General Preparation**

**Duplicate (BFI0725-DUP1)**

Source: 2209080-03

Prepared & Analyzed: 09/28/22

% Solids	92.0	%	91.8	0.179	20
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0747 - General Preparation**

**Blank (BFI0747-BLK1)**

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFI0747-BS1)**

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFI0747-DUP1)**

**Source: 2209350-01**

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) 25.1 0.0100 mmhos/cm 24.7 1.64 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 - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0746 - General Preparation**

**LCS (BFI0746-BS1)**

Prepared: 09/28/22 Analyzed: 09/30/22

pH	9.11	pH Units	9.18	99.2	95-105
----	------	----------	------	------	--------

**Duplicate (BFI0746-DUP1)**

Source: 2209350-01

Prepared: 09/28/22 Analyzed: 09/30/22

pH	7.10	pH Units	7.14	0.562	20
----	------	----------	------	-------	----

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 13:28

### Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 03, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2209414

Enclosed are the results of analyses for samples received by Summit Scientific on 09/21/22 14:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President





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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV01@5'	2209414-01	Soil	09/21/22 10:15	09/21/22 14:45
FLR01@3'	2209414-02	Soil	09/21/22 10:35	09/21/22 14:45
FLR02@3'	2209414-03	Soil	09/21/22 11:05	09/21/22 14:45
FLR03@4'	2209414-04	Soil	09/21/22 11:35	09/21/22 14:45
WDL01@2'	2209414-05	Soil	09/21/22 10:20	09/21/22 14:45
WH01@5.5'	2209414-06	Soil	09/21/22 10:30	09/21/22 14:45
WH02@6'	2209414-07	Soil	09/21/22 11:00	09/21/22 14:45
WH03@6.5'	2209414-08	Soil	09/21/22 11:30	09/21/22 14:45
AST03@1.5'	2209414-09	Soil	09/21/22 13:25	09/21/22 14:45

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.*

2209414.1

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: Entrada Consulting GroupProject Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com ; PDC EHS

City/State/Zip:

cveryser@entradainc.comPhone: 506) 9456355Project Name: Mershon PadSampler Name: Chelsea Verryser

Project Number:

					Preservative				Matrix				Analysis Requested						Special Instructions				
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	TMB's	TPH	PH, EC, SAR	BARON						
1	PWV01@5'	9/21/22	1015	3			X			X							X	X					
2	FLR01@3'		1035	1													X	X					
3	FLR02@3'		1105	1													X	X					
4	FLR03@4'		1135	1													X	X					
5	WDL01@2'		1020	1																			
6	WH01@5.5'		1030	1																			
7	WH02@6'		1100	1																			
8	WH03@6.5'	↓	1130	↓			↓			↓			↓	↓	↓								
9																							
10																							

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/21/22 14:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/21/22 1445</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day _____	72 hours _____
				24 hours _____	Standard <u>X</u>
				48 hours _____	
Temperature Upon Receipt: <u>9.5</u>	Corrected Temperature: <u>9</u>	HNO <sub>3</sub> lot #	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>0</u>	IR gun #: <u>1</u>				

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

22094142

Page 2 of 2

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com ; PDC EHS

City/State/Zip:

cveryser@entradainc.com

Phone: 306 945 0355

Project Name: Merston Pad

Sampler Name: CWELSEA veryser

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX N	TMBS	TPH						
1	AST 03 @ 1.5	9/21/22	1325	3			X			X											
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/21/22 14:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/21/22 1445</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input type="checkbox"/>
				24 hours <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>9.3</u>	Corrected Temperature: <u>[Signature]</u>	HNO3 lot #	Sample Integrity:	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
IR gun correction: <u>[Signature]</u>	IR gun #: <u>1</u>				

S<sub>2</sub>2/2  
Sample Receipt Checklist

S2 Work Order# 2209414

Client: Entrada Client Project ID: Mershon PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐☐ ☐ ☐ ☐ ☐Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.3 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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 ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):

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

Custodian Printed Name

Date/Time

9.21.22

20:10





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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**PWV01@5'**  
**2209414-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

**PWV01@5'**  
**2209414-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.230	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	102	0.0543	mg/L dry	1	BF10728	09/28/22	10/02/22	EPA 6020B	
Magnesium	59.6	0.0543	"	"	"	"	"	"	
Sodium	203	0.0543	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.97	0.00100	units	1	BFJ0003	10/02/22	10/02/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BF10726	09/28/22	09/30/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.62	0.0100	mmhos/cm	1	BF10747	09/28/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

**PWV01@5'**  
**2209414-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/21/22 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.97</b>			pH Units	1	BF10746	09/28/22	09/30/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

**FLR01@3'**  
**2209414-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

**FLR01@3'**  
**2209414-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0934	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.3	0.0586	mg/L dry	1	BF10728	09/28/22	10/02/22	EPA 6020B	
Magnesium	10.2	0.0586	"	"	"	"	"	"	
Sodium	8.23	0.0586	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.330	0.00100	units	1	BFJ0003	10/02/22	10/02/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BF10726	09/28/22	09/30/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.304	0.0100	mmhos/cm	1	BF10747	09/28/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

**FLR01@3'**  
**2209414-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/21/22 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.73</b>			pH Units	1	BF10746	09/28/22	09/30/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

**FLR02@3'**  
**2209414-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		148 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**FLR02@3'**  
**2209414-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.106	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.6	0.0594	mg/L dry	1	BF10728	09/28/22	10/02/22	EPA 6020B	
Magnesium	9.03	0.0594	"	"	"	"	"	"	
Sodium	9.89	0.0594	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.404	0.00100	units	1	BFJ0003	10/02/22	10/02/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BF10726	09/28/22	09/30/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.358	0.0100	mmhos/cm	1	BF10747	09/28/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

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

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

**Reported:**  
10/03/22 12:46

**FLR02@3'**  
**2209414-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/21/22 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.79</b>			pH Units	1	BF10746	09/28/22	09/30/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**FLR03@4'**  
**2209414-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		145 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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

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

**Reported:**  
10/03/22 12:46

**FLR03@4'**  
**2209414-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.140	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.7	0.0606	mg/L dry	1	BF10728	09/28/22	10/02/22	EPA 6020B	
Magnesium	7.48	0.0606	"	"	"	"	"	"	
Sodium	11.2	0.0606	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.545	0.00100	units	1	BFJ0003	10/02/22	10/02/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BF10726	09/28/22	09/30/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.186	0.0100	mmhos/cm	1	BF10747	09/28/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

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

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

**Reported:**  
10/03/22 12:46

**FLR03@4'**  
**2209414-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/21/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.77</b>			pH Units	1	BF10746	09/28/22	09/30/22	EPA 9045D	

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

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

**Reported:**  
10/03/22 12:46

**WDL01@2'**  
**2209414-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		141 %	30-150		"	"	"	"	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**WH01@5.5'**  
**2209414-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		147 %	30-150		"	"	"	"	

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240 Mesa Avenue  
Grand Junction. CO, 81501

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

**Reported:**  
10/03/22 12:46

**WH02@6'**  
**2209414-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		148 %	30-150		"	"	"	"	

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

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

**Reported:**  
10/03/22 12:46

**WH03@6.5'**  
**2209414-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10587	09/22/22	09/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10590	09/22/22	09/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		150 %	30-150		"	"	"	"	

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

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

**Reported:**  
10/03/22 12:46

**AST03@1.5'**  
**2209414-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/21/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10557	09/21/22	09/21/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		92.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/21/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10558	09/21/22	09/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		93.6 %	30-150		"	"	"	"	

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BF10557 - EPA 5030 Soil MS

##### Blank (BF10557-BLK1)

Prepared: 09/21/22 Analyzed: 09/22/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0345		"	0.0400		86.2	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.3	50-150			

##### LCS (BF10557-BS1)

Prepared: 09/21/22 Analyzed: 09/22/22

Benzene	0.116	0.0020	mg/kg	0.125		93.0	70-130			
Toluene	0.133	0.0050	"	0.125		106	70-130			
Ethylbenzene	0.143	0.0050	"	0.125		114	70-130			
m,p-Xylene	0.289	0.010	"	0.250		115	70-130			
o-Xylene	0.139	0.0050	"	0.125		111	70-130			
1,2,4-Trimethylbenzene	0.146	0.0050	"	0.125		117	70-130			
1,3,5-Trimethylbenzene	0.147	0.0050	"	0.125		117	70-130			
Naphthalene	0.0917	0.0038	"	0.125		73.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0400		87.6	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		93.9	50-150			

##### Matrix Spike (BF10557-MS1)

Source: 2209412-01

Prepared: 09/21/22 Analyzed: 09/22/22

Benzene	0.116	0.0020	mg/kg	0.125	ND	93.0	70-130			
Toluene	0.129	0.0050	"	0.125	ND	103	70-130			
Ethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130			
m,p-Xylene	0.289	0.010	"	0.250	ND	116	70-130			
o-Xylene	0.140	0.0050	"	0.125	ND	112	70-130			
1,2,4-Trimethylbenzene	0.147	0.0050	"	0.125	ND	118	70-130			
1,3,5-Trimethylbenzene	0.148	0.0050	"	0.125	ND	119	70-130			
Naphthalene	0.117	0.0038	"	0.125	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0349		"	0.0400		87.3	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0557 - EPA 5030 Soil MS**

**Matrix Spike Dup (BFI0557-MSD1)**

Source: 2209412-01

Prepared: 09/21/22 Analyzed: 09/22/22

Benzene	0.119	0.0020	mg/kg	0.125	ND	95.5	70-130	2.72	30	
Toluene	0.131	0.0050	"	0.125	ND	105	70-130	2.05	30	
Ethylbenzene	0.142	0.0050	"	0.125	ND	114	70-130	0.755	30	
m,p-Xylene	0.286	0.010	"	0.250	ND	115	70-130	1.06	30	
o-Xylene	0.138	0.0050	"	0.125	ND	110	70-130	1.34	30	
1,2,4-Trimethylbenzene	0.143	0.0050	"	0.125	ND	115	70-130	2.74	30	
1,3,5-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130	2.69	30	
Naphthalene	0.107	0.0038	"	0.125	ND	85.5	70-130	9.03	30	
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.0	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.4	50-150			

**Batch BFI0587 - EPA 5030 Soil MS**

**Blank (BFI0587-BLK1)**

Prepared: 09/22/22 Analyzed: 09/23/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	50-150			

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0587 - EPA 5030 Soil MS**

**LCS (BFI0587-BS1)**

Prepared: 09/22/22 Analyzed: 09/23/22

Benzene	0.128	0.0020	mg/kg	0.125		102	70-130			
Toluene	0.140	0.0050	"	0.125		112	70-130			
Ethylbenzene	0.152	0.0050	"	0.125		122	70-130			
m,p-Xylene	0.301	0.010	"	0.250		120	70-130			
o-Xylene	0.137	0.0050	"	0.125		110	70-130			
1,2,4-Trimethylbenzene	0.155	0.0050	"	0.125		124	70-130			
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125		125	70-130			
Naphthalene	0.122	0.0038	"	0.125		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150			

**Matrix Spike (BFI0587-MS1)**

Source: 2209414-01

Prepared: 09/22/22 Analyzed: 09/23/22

Benzene	0.128	0.0020	mg/kg	0.125	ND	102	70-130			
Toluene	0.141	0.0050	"	0.125	ND	113	70-130			
Ethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130			
m,p-Xylene	0.315	0.010	"	0.250	ND	126	70-130			
o-Xylene	0.142	0.0050	"	0.125	ND	114	70-130			
1,2,4-Trimethylbenzene	0.159	0.0050	"	0.125	ND	127	70-130			
1,3,5-Trimethylbenzene	0.133	0.0050	"	0.125	ND	107	70-130			
Naphthalene	0.133	0.0038	"	0.125	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

**Matrix Spike Dup (BFI0587-MSD1)**

Source: 2209414-01

Prepared: 09/22/22 Analyzed: 09/23/22

Benzene	0.121	0.0020	mg/kg	0.125	ND	96.7	70-130	5.31	30	
Toluene	0.135	0.0050	"	0.125	ND	108	70-130	4.65	30	
Ethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130	7.11	30	
m,p-Xylene	0.293	0.010	"	0.250	ND	117	70-130	7.09	30	
o-Xylene	0.135	0.0050	"	0.125	ND	108	70-130	5.46	30	
1,2,4-Trimethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130	5.50	30	
1,3,5-Trimethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130	14.5	30	
Naphthalene	0.132	0.0038	"	0.125	ND	105	70-130	0.931	30	
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

Summit Scientific

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

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

**Reported:**  
10/03/22 12:46

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFI0558 - EPA 3550A**

**Blank (BFI0558-BLK1)**

Prepared: 09/21/22 Analyzed: 09/22/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFI0558-BS1)**

Prepared: 09/21/22 Analyzed: 09/22/22

C10-C28 (DRO)	543	50	mg/kg	500	109	70-130
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**Matrix Spike (BFI0558-MS1)**

Source: 2209412-01

Prepared: 09/21/22 Analyzed: 09/22/22

C10-C28 (DRO)	517	50	mg/kg	500	14.0	101	70-130
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**Matrix Spike Dup (BFI0558-MSD1)**

Source: 2209412-01

Prepared: 09/21/22 Analyzed: 09/22/22

C10-C28 (DRO)	559	50	mg/kg	500	14.0	109	70-130	7.91	20
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**Batch BFI0590 - EPA 3550A**

**Blank (BFI0590-BLK1)**

Prepared: 09/22/22 Analyzed: 09/25/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFI0590-BS1)**

Prepared: 09/22/22 Analyzed: 09/25/22

C10-C28 (DRO)	453	50	mg/kg	500	90.7	70-130
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**Matrix Spike (BFI0590-MS1)**

Source: 2209414-01

Prepared: 09/22/22 Analyzed: 09/25/22

C10-C28 (DRO)	464	50	mg/kg	500	13.4	90.0	70-130
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**Matrix Spike Dup (BFI0590-MSD1)**

Source: 2209414-01

Prepared: 09/22/22 Analyzed: 09/25/22

C10-C28 (DRO)	541	50	mg/kg	500	13.4	106	70-130	15.5	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0689 - EPA 3050B**

**Blank (BFI0689-BLK1)**

Prepared: 09/26/22 Analyzed: 09/30/22

Boron ND 0.0100 mg/L

**LCS (BFI0689-BS1)**

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 4.85 0.0100 mg/L 5.00 97.0 80-120

**Duplicate (BFI0689-DUP1)**

**Source: 2209331-01**

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 0.713 0.0100 mg/L 0.793 10.6 20

**Matrix Spike (BFI0689-MS1)**

**Source: 2209331-01**

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 5.31 0.0100 mg/L 5.00 0.793 90.4 75-125

**Matrix Spike Dup (BFI0689-MSD1)**

**Source: 2209331-01**

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 5.38 0.0100 mg/L 5.00 0.793 91.7 75-125 1.28 25

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0728 - General Preparation**

**Blank (BFI0728-BLK1)**

Prepared: 09/28/22 Analyzed: 10/01/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFI0728-BS1)**

Prepared: 09/28/22 Analyzed: 10/01/22

Calcium	5.83	0.0500	mg/L wet	5.00	117	70-130
Magnesium	5.57	0.0500	"	5.00	111	70-130
Sodium	5.36	0.0500	"	5.00	107	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

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

**Summit Scientific**

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

**Batch BFI0726 - General Preparation**

**Duplicate (BFI0726-DUP1)**

**Source: 2209414-01**

Prepared: 09/28/22 Analyzed: 09/30/22

% Solids	93.7	%	92.1	1.70	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0747 - General Preparation**

**Blank (BFI0747-BLK1)**

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFI0747-BS1)**

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFI0747-DUP1)**

**Source: 2209350-01**

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) 25.1 0.0100 mmhos/cm 24.7 1.64 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0746 - General Preparation**

**LCS (BFI0746-BS1)**

Prepared: 09/28/22 Analyzed: 09/30/22

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BFI0746-DUP1)**

**Source: 2209350-01**

Prepared: 09/28/22 Analyzed: 09/30/22

pH	7.10	pH Units	7.14	0.562	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/03/22 12:46

### 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

October 28, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2209464

Enclosed are the results of analyses for samples received by Summit Scientific on 09/22/22 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President





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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@.5'	2209464-01	Soil	09/22/22 10:00	09/22/22 16:50
SS02@.5'	2209464-02	Soil	09/22/22 10:10	09/22/22 16:50
BKG01@3'	2209464-03	Soil	09/22/22 14:35	09/22/22 16:50
BKG01@5'	2209464-04	Soil	09/22/22 14:40	09/22/22 16:50
BKG01@1'	2209464-05	Soil	09/22/22 14:30	09/22/22 16:50
BKG01@8'	2209464-06	Soil	09/22/22 14:45	09/22/22 16:50

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

S<sub>2</sub>

2209464

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com; PDC EHS

City/State/Zip:

cveryser@entradainc.com

Phone: 586 945 6355

Project Name: Marshon Pad

Sampler Name: Chelsea Verryser

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	TMBs	TPH	PH, EC, SAR, BORON	AS, Si, Ba			
1	SS01 @ .5'	9/22/22	1000	3			X			X				X	X	X				
2	SS02 @ .5'		1010	1										X	X	X				
3	BKG01 @ 3'		1435	1													X			
4	BKG01 @ 5'		1440	1													X			
5	BKG01 @ 1'		1430	1													X	X		
6	BKG01 @ 8'		1445	1													X	X		
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/22/22 16:50</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9.22.22 16:50</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>
				24 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>18.3</u>	Corrected Temperature <u>—</u>	HNO <sub>3</sub> lot # <u>—</u>	Sample Integrity:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S<sub>2</sub>

2209464

## Sample Receipt Checklist

S2 Work Order#

Client: Entrada Client Project ID: Mer shon PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 18.3 Thermometer # ☐

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):				

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

AT  
Custodian Printed Name

9.22.22  
Date/Time



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**SS01@.5'**  
**2209464-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/22/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10654	09/26/22	09/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/22/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10657	09/26/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		118 %	30-150		"	"	"	"	

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**SS02@.5'**  
**2209464-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/22/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10654	09/26/22	09/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/22/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		120 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10657	09/26/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		132 %	30-150		"	"	"	"	

Summit Scientific

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

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

**Reported:**  
10/28/22 11:29

**BKG01@3'**  
**2209464-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/22/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.101	0.0100	mg/L	1	BF10757	09/29/22	10/04/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/22/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	68.1	0.400	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B	
Silver	0.631	0.0200	"	"	"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/22/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.6	0.0561	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B	
Magnesium	16.4	0.0561	"	"	"	"	"	"	
Sodium	38.6	0.0561	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/22/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.27	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BF10763	09/30/22	09/30/22	Calculation	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**BKG01@3'**  
**2209464-03 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.486</b>	0.0100		mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.23</b>			pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/28/22 11:29

**BKG01@5'**  
**2209464-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/22/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.124	0.0100	mg/L	1	BF10757	09/29/22	10/04/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/22/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	57.6	0.400	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B	
Silver	0.524	0.0200	"	"	"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/22/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	179	0.0548	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B	
Magnesium	75.2	0.0548	"	"	"	"	"	"	
Sodium	94.1	0.0548	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/22/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.49	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.2		%	1	BF10763	09/30/22	09/30/22	Calculation	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**BKG01@5'**  
**2209464-04 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.66	0.0100		mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.08			pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**BKG01@1'**  
**2209464-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/22/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Boron</b>	<b>0.235</b>	0.0100	mg/L	1	BF10757	09/29/22	10/04/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/22/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Arsenic</b>	<b>7.97</b>	0.200	mg/kg dry	1	BF10760	09/29/22	10/04/22	EPA 6020B	
<b>Barium</b>	<b>119</b>	0.400	"	"	"	"	"	"	
<b>Selenium</b>	<b>1.50</b>	0.260	"	"	"	"	"	"	
<b>Silver</b>	<b>0.425</b>	0.0200	"	"	"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/22/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Calcium</b>	<b>30.7</b>	0.0575	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B	
<b>Magnesium</b>	<b>10.5</b>	0.0575	"	"	"	"	"	"	
<b>Sodium</b>	<b>15.8</b>	0.0575	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/22/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Sodium Adsorption Ratio</b>	<b>0.628</b>	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>% Solids</b>	<b>87.0</b>		%	1	BF10763	09/30/22	09/30/22	Calculation	

Summit Scientific

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

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

**Reported:**  
10/28/22 11:29

**BKG01@1'**  
**2209464-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.290</b>	0.0100		mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	<b>8.30</b>			pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

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

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

**Reported:**  
10/28/22 11:29

**BKG01@8'**  
**2209464-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/22/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Boron</b>	<b>0.155</b>	0.0100	mg/L	1	BF10757	09/29/22	10/04/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/22/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Arsenic</b>	<b>4.60</b>	0.200	mg/kg dry	1	BF10760	09/29/22	10/04/22	EPA 6020B	
<b>Barium</b>	<b>85.0</b>	0.400	"	"	"	"	"	"	
<b>Selenium</b>	<b>1.10</b>	0.260	"	"	"	"	"	"	
<b>Silver</b>	<b>0.396</b>	0.0200	"	"	"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/22/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Calcium</b>	<b>326</b>	0.0542	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B	
<b>Magnesium</b>	<b>159</b>	0.0542	"	"	"	"	"	"	
<b>Sodium</b>	<b>188</b>	0.0542	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/22/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Sodium Adsorption Ratio</b>	<b>2.13</b>	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>% Solids</b>	<b>92.2</b>		%	1	BF10763	09/30/22	09/30/22	Calculation	

Summit Scientific

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

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

**Reported:**  
10/28/22 11:29

**BKG01@8'**  
**2209464-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	<b>2.96</b>	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/22/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>pH</b>	<b>7.94</b>		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFI0654 - EPA 5030 Soil MS

##### Blank (BFI0654-BLK1)

Prepared & Analyzed: 09/26/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0373		"	0.0400		93.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	50-150			

##### LCS (BFI0654-BS1)

Prepared & Analyzed: 09/26/22

Benzene	0.0596	0.0020	mg/kg	0.0750		79.4	70-130			
Toluene	0.0621	0.0050	"	0.0750		82.8	70-130			
Ethylbenzene	0.0590	0.0050	"	0.0750		78.6	70-130			
m,p-Xylene	0.117	0.010	"	0.150		77.8	70-130			
o-Xylene	0.0608	0.0050	"	0.0750		81.1	70-130			
1,2,4-Trimethylbenzene	0.0581	0.0050	"	0.0750		77.5	70-130			
1,3,5-Trimethylbenzene	0.0571	0.0050	"	0.0750		76.1	70-130			
Naphthalene	0.0580	0.0038	"	0.0750		77.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0322		"	0.0400		80.5	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0364		"	0.0400		91.0	50-150			

##### Matrix Spike (BFI0654-MS1)

Source: 2209425-02

Prepared & Analyzed: 09/26/22

Benzene	0.0568	0.0020	mg/kg	0.0750	ND	75.7	70-130			
Toluene	0.0595	0.0050	"	0.0750	ND	79.3	70-130			
Ethylbenzene	0.0548	0.0050	"	0.0750	ND	73.0	70-130			
m,p-Xylene	0.113	0.010	"	0.150	ND	75.4	70-130			
o-Xylene	0.0579	0.0050	"	0.0750	ND	77.2	70-130			
1,2,4-Trimethylbenzene	0.0599	0.0050	"	0.0750	ND	79.9	70-130			
1,3,5-Trimethylbenzene	0.0581	0.0050	"	0.0750	ND	77.4	70-130			
Naphthalene	0.0631	0.0038	"	0.0750	ND	84.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0347		"	0.0400		86.7	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	50-150			

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0654 - EPA 5030 Soil MS**

Matrix Spike Dup (BFI0654-MSD1)		Source: 2209425-02			Prepared & Analyzed: 09/26/22					
Benzene	0.0541	0.0020	mg/kg	0.0750	ND	72.1	70-130	4.87	30	
Toluene	0.0595	0.0050	"	0.0750	ND	79.4	70-130	0.101	30	
Ethylbenzene	0.0593	0.0050	"	0.0750	ND	79.0	70-130	7.95	30	
m,p-Xylene	0.120	0.010	"	0.150	ND	79.7	70-130	5.60	30	
o-Xylene	0.0620	0.0050	"	0.0750	ND	82.6	70-130	6.86	30	
1,2,4-Trimethylbenzene	0.0608	0.0050	"	0.0750	ND	81.0	70-130	1.34	30	
1,3,5-Trimethylbenzene	0.0634	0.0050	"	0.0750	ND	84.5	70-130	8.70	30	
Naphthalene	0.0653	0.0038	"	0.0750	ND	87.1	70-130	3.50	30	
Surrogate: 1,2-Dichloroethane-d4	0.0316		"	0.0400		78.9	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.8	50-150			

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFI0657 - EPA 3550A**

**Blank (BFI0657-BLK1)**

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFI0657-BS1)**

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	632	50	mg/kg	500	126	70-130
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**Matrix Spike (BFI0657-MS1)**

Source: 2209425-01

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	525	50	mg/kg	500	22.7	100	70-130
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**Matrix Spike Dup (BFI0657-MSD1)**

Source: 2209425-01

Prepared: 09/26/22 Analyzed: 09/28/22

C10-C28 (DRO)	536	50	mg/kg	500	22.7	103	70-130	2.07	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0757 - EPA 3050B**

**Blank (BFI0757-BLK1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron ND 0.0100 mg/L

**LCS (BFI0757-BS1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.37 0.0100 mg/L 5.00 107 80-120

**Duplicate (BFI0757-DUP1)**

**Source: 2209456-01**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 0.325 0.0100 mg/L 0.330 1.31 20

**Matrix Spike (BFI0757-MS1)**

**Source: 2209456-01**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.69 0.0100 mg/L 5.00 0.330 107 75-125

**Matrix Spike Dup (BFI0757-MSD1)**

**Source: 2209456-01**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.88 0.0100 mg/L 5.00 0.330 111 75-125 3.21 25

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0760 - EPA 3050B**

**Blank (BFI0760-BLK1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"

**LCS (BFI0760-BS1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Arsenic	45.1	0.200	mg/kg wet	40.0	113	80-120
Barium	47.3	0.400	"	40.0	118	80-120
Selenium	4.48	0.260	"	4.00	112	80-120
Silver	2.27	0.0200	"	2.00	113	80-120

**Duplicate (BFI0760-DUP1)**

Source: 2209073-01

Prepared: 09/29/22 Analyzed: 10/04/22

Arsenic	8.15	0.200	mg/kg dry	7.92		2.86	20
Barium	205	0.400	"	198		3.20	20
Selenium	2.84	0.260	"	2.74		3.73	20
Silver	0.110	0.0200	"	0.108		1.07	20

**Matrix Spike (BFI0760-MS1)**

Source: 2209073-01

Prepared: 09/29/22 Analyzed: 10/04/22

Arsenic	69.0	0.200	mg/kg dry	54.4	7.92	112	75-125
Barium	266	0.400	"	54.4	198	125	75-125
Selenium	7.78	0.260	"	5.44	2.74	92.7	75-125
Silver	3.08	0.0200	"	2.72	0.108	109	75-125

**Matrix Spike Dup (BFI0760-MSD1)**

Source: 2209073-01

Prepared: 09/29/22 Analyzed: 10/04/22

Arsenic	68.8	0.200	mg/kg dry	54.4	7.92	112	75-125	0.240	25
Barium	269	0.400	"	54.4	198	130	75-125	1.16	25
Selenium	8.48	0.260	"	5.44	2.74	105	75-125	8.57	25
Silver	3.10	0.0200	"	2.72	0.108	110	75-125	0.875	25

QM-05

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0519 - EPA 3050B**

**Blank (BFJ0519-BLK1)**

Prepared & Analyzed: 10/20/22

Barium	ND	0.400	mg/kg wet
Silver	ND	0.0200	"

**LCS (BFJ0519-BS1)**

Prepared & Analyzed: 10/20/22

Barium	34.0	0.400	mg/kg wet	40.0	85.0	80-120
Silver	1.83	0.0200	"	2.00	91.6	80-120

**Duplicate (BFJ0519-DUP1)**

Source: 2209464-03

Prepared & Analyzed: 10/20/22

Barium	67.0	0.400	mg/kg dry	68.1	1.70	20
Silver	0.585	0.0200	"	0.631	7.68	20

**Matrix Spike (BFJ0519-MS1)**

Source: 2209464-03

Prepared & Analyzed: 10/20/22

Barium	115	0.400	mg/kg dry	44.9	68.1	104	75-125
Silver	2.80	0.0200	"	2.24	0.631	96.9	75-125

**Matrix Spike Dup (BFJ0519-MSD1)**

Source: 2209464-03

Prepared & Analyzed: 10/20/22

Barium	114	0.400	mg/kg dry	44.9	68.1	102	75-125	0.846	25
Silver	2.78	0.0200	"	2.24	0.631	95.6	75-125	1.05	25

**Post Spike (BFJ0519-PS1)**

Source: 2209464-03

Prepared & Analyzed: 10/20/22

Silver	6.37		ug/l	5.00	1.41	99.3	75-125
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0769 - General Preparation**

**Blank (BFI0769-BLK1)**

Prepared: 09/29/22 Analyzed: 10/05/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFI0769-BS1)**

Prepared: 09/29/22 Analyzed: 10/05/22

Calcium	6.44	0.0500	mg/L wet	5.00	129	70-130
Magnesium	5.63	0.0500	"	5.00	113	70-130
Sodium	5.22	0.0500	"	5.00	104	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

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

**Summit Scientific**

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

**Batch BFI0763 - General Preparation**

**Duplicate (BFI0763-DUP1)**

**Source: 2209454-01**

Prepared: 09/29/22 Analyzed: 09/30/22

% Solids	82.6	%	85.5	3.46	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0771 - General Preparation**

**Blank (BFI0771-BLK1)**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFI0771-BS1)**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFI0771-DUP1)**

**Source: 2209453-01**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.297 0.0100 mmhos/cm 0.297 0.00 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0772 - General Preparation**

**LCS (BFI0772-BS1)**

Prepared: 09/29/22 Analyzed: 09/30/22

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BFI0772-DUP1)**

**Source: 2209453-01**

Prepared: 09/29/22 Analyzed: 09/30/22

pH	7.92	pH Units	7.92	0.00	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 11:29

### Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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 13, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210034

Enclosed are the results of analyses for samples received by Summit Scientific on 10/04/22 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX01@14	2210034-01	Soil	10/04/22 11:15	10/04/22 15:40
EX02@14	2210034-02	Soil	10/04/22 12:15	10/04/22 15:40
WC02@5	2210034-03	Soil	10/04/22 11:20	10/04/22 15:40
GW01	2210034-04	Water	10/04/22 12:00	10/04/22 15:40

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

2210034.1

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com; PDC EHS

City/State/Zip:

cverysen@entradainc.com

Phone: 586-945-6355

Project Name: Merchon Pad

Sampler Name: Chelsea Verysen

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Full Table 1								
1	EX01@14	10/4/22	1115	3			X			X				X							"Same day BTEXN, "
2	EX02@14	10/4/22	1215	1										X							"TMBs + TPH "
3	WC02@5	10/4/22	1120	1																	Hold
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/4/22 1540</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/4/22 1540</u>	Turn Around Time (Check)	Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	<b>Notes:</b> Same day BTEXN TMBs + TPH Standard inorganics and PAHs
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Temperature Upon Receipt: <u>14.9</u>	Corrected Temperature <u>14.9</u>	HNO <sub>3</sub> lot #				
IR gun correction: <u>0</u>	IR gun #: <u>1</u>					



# Summit Scientific

2210034.2

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com ; PDC EHS

City/State/Zip:

cveryser@entradainc.com

Phone: 586 945 6355

Project Name: Imershon pad

Sampler Name: Chelsea Varyser

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BIEXN	TMBS							
1	GW01	10/4/22	1200	3			X		X				X	X							
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/4/22 1540</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/4/22 1540</u>	<b>Turn Around Time (Check)</b> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Temperature Upon Receipt: <u>14.9</u>	Corrected Temperature <u>15.0</u>	HNO3 lot #			
IR gun correction: <u>0</u>		IR gun #: <u>1</u>			

2/2

S2 Work Order#

2210034

### Sample Receipt Checklist

Client: Entrada

Client Project ID: Wilson Pad

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

Airbill #:

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Matrix (Check all that apply)

Air



Soil/Solid

Water

11

Other

11/11/2019

Temp ( $^{\circ}\text{C}$ )

149

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 ( $\text{Fe}^{2+}$ ), Hexavalent Chromium ( $\text{Cr}^{6+}$ , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation ( <b>excluding cooling</b> )? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, $\text{H}_2\text{SO}_4$ , NaOH, $\text{HNO}_3$ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				

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

Custodian Printed Name

Date/Time

10.4.22

20:15



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

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

**Reported:**  
10/13/22 10:15

**EX01@14**  
**2210034-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0077	10/04/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		86.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0078	10/04/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/13/22 10:15

**EX01@14**  
**2210034-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0117	10/06/22	10/07/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0127	10/06/22	10/09/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**EX01@14**  
**2210034-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.55	0.243	mg/kg dry	1	BFJ0164	10/07/22	10/09/22	EPA 6020B
Barium	65.4	0.485	"	"	"	"	"	"
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	6.78	0.485	"	"	"	"	"	"
Lead	5.87	0.243	"	"	"	"	"	"
Nickel	8.48	0.485	"	"	"	"	"	"
Selenium	0.728	0.315	"	"	"	"	"	"
Silver	ND	0.0243	"	"	"	"	"	"
Zinc	30.0	0.485	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0309	10/12/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	187	0.0606	mg/L dry	1	BFJ0175	10/07/22	10/10/22	EPA 6020B	
Magnesium	27.2	0.0606	"	"	"	"	"	"	
Sodium	45.5	0.0606	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.825	0.00100	units	1	BFJ0259	10/11/22	10/11/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**EX01@14**  
**2210034-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BFJ0159	10/07/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.02	0.0100	mmhos/cm	1	BFJ0185	10/07/22	10/12/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/04/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BFJ0184	10/07/22	10/13/22	EPA 9045D	

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

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

**Reported:**  
10/13/22 10:15

**EX02@14**  
**2210034-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0077	10/04/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.011</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.017</b>	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0042</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.62</b>	0.50	"	"	"	"	"	"	

Date Sampled: **10/04/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		87.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/04/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0078	10/04/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/04/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.2 %	30-150		"	"	"	"	

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

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

**Reported:**  
10/13/22 10:15

**WC02@5**  
**2210034-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0077	10/04/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	<b>0.044</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	<b>0.41</b>	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<b>6.9</b>	0.050	"	10	"	"	"	"	
1,3,5-Trimethylbenzene	<b>2.6</b>	0.050	"	"	"	"	"	"	
Naphthalene	<b>0.22</b>	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	<b>340</b>	5.0	"	10	"	"	"	"	

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		78.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>3000</b>	50	mg/kg	1	BFJ0078	10/04/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	<b>240</b>	50	"	"	"	"	"	"	

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/13/22 10:15

**WC02@5**  
**2210034-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0153	10/07/22	10/07/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0315</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0920</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.409</b>	0.250	"	50	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>1.14</b>	0.250	"	"	"	"	"	"	

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0165	10/07/22	10/09/22	EPA 6020B	

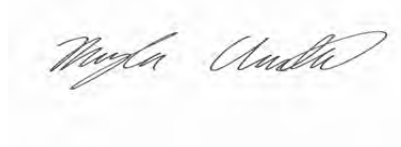
**Total Metals by EPA 6020B**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**WC02@5**  
**2210034-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.86	0.239	mg/kg dry	1	BFJ0164	10/07/22	10/09/22	EPA 6020B
Barium	80.1	0.478	"	"	"	"	"	"
Cadmium	ND	0.239	"	"	"	"	"	"
Copper	7.80	0.478	"	"	"	"	"	"
Lead	7.86	0.239	"	"	"	"	"	"
Nickel	8.18	0.478	"	"	"	"	"	"
Selenium	0.731	0.311	"	"	"	"	"	"
Silver	0.0344	0.0239	"	"	"	"	"	"
Zinc	35.1	0.478	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0309	10/12/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.1	0.0598	mg/L dry	1	BFJ0175	10/07/22	10/10/22	EPA 6020B	
Magnesium	18.4	0.0598	"	"	"	"	"	"	
Sodium	32.3	0.0598	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.14	0.00100	units	1	BFJ0259	10/11/22	10/11/22	Calculation	

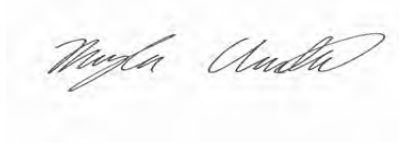
**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/13/22 10:15

**WC02@5**  
**2210034-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.6	%	1	BFJ0159	10/07/22	10/10/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.360	0.0100	mmhos/cm	1	BFJ0185	10/07/22	10/12/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/04/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BFJ0184	10/07/22	10/13/22	EPA 9045D	

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

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

**Reported:**  
10/13/22 10:15

**GW01**  
**2210034-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0179	10/07/22	10/07/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/04/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		93.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		134 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	21-167		"	"	"	"	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0077 - EPA 5030 Soil MS

##### Blank (BFJ0077-BLK1)

Prepared: 10/04/22 Analyzed: 10/05/22

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0400		89.0		50-150			
Surrogate: Toluene-d8	0.0353		"	0.0400		88.3		50-150			
Surrogate: 4-Bromofluorobenzene	0.0357		"	0.0400		89.2		50-150			

##### LCS (BFJ0077-BS1)

Prepared: 10/04/22 Analyzed: 10/05/22

Benzene	0.0927	0.0020	mg/kg	0.125		74.2		70-130			
Toluene	0.0892	0.0050	"	0.125		71.4		70-130			
Ethylbenzene	0.151	0.0050	"	0.125		121		70-130			
m,p-Xylene	0.301	0.010	"	0.250		120		70-130			
o-Xylene	0.134	0.0050	"	0.125		108		70-130			
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.125		125		70-130			
1,3,5-Trimethylbenzene	0.162	0.0050	"	0.125		130		70-130			
Naphthalene	0.120	0.0038	"	0.125		96.1		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.7		50-150			
Surrogate: Toluene-d8	0.0364		"	0.0400		91.1		50-150			
Surrogate: 4-Bromofluorobenzene	0.0340		"	0.0400		85.0		50-150			

##### Matrix Spike (BFJ0077-MS1)

Source: 2210029-01

Prepared: 10/04/22 Analyzed: 10/05/22

Benzene	0.0884	0.0020	mg/kg	0.125	ND	70.8		70-130			
Toluene	0.115	0.0050	"	0.125	ND	91.7		70-130			
Ethylbenzene	0.148	0.0050	"	0.125	ND	118		70-130			
m,p-Xylene	0.295	0.010	"	0.250	ND	118		70-130			
o-Xylene	0.132	0.0050	"	0.125	ND	106		70-130			
1,2,4-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124		70-130			
1,3,5-Trimethylbenzene	0.158	0.0050	"	0.125	ND	126		70-130			
Naphthalene	0.129	0.0038	"	0.125	ND	103		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.6		50-150			
Surrogate: Toluene-d8	0.0359		"	0.0400		89.7		50-150			
Surrogate: 4-Bromofluorobenzene	0.0344		"	0.0400		86.0		50-150			

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

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

**Reported:**  
10/13/22 10:15

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0077 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0077-MSD1)		Source: 2210029-01		Prepared: 10/04/22 Analyzed: 10/05/22						
Benzene	0.0886	0.0020	mg/kg	0.125	ND	70.8	70-130	0.136	30	
Toluene	0.115	0.0050	"	0.125	ND	91.7	70-130	0.00	30	
Ethylbenzene	0.147	0.0050	"	0.125	ND	118	70-130	0.469	30	
m,p-Xylene	0.297	0.010	"	0.250	ND	119	70-130	0.719	30	
o-Xylene	0.131	0.0050	"	0.125	ND	105	70-130	0.661	30	
1,2,4-Trimethylbenzene	0.158	0.0050	"	0.125	ND	126	70-130	1.77	30	
1,3,5-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130	1.66	30	
Naphthalene	0.137	0.0038	"	0.125	ND	110	70-130	6.21	30	
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.4	50-150			
Surrogate: Toluene-d8	0.0358		"	0.0400		89.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0344		"	0.0400		86.1	50-150			

**Batch BFJ0179 - EPA 5030 Water MS**

Blank (BFJ0179-BLK1)		Prepared & Analyzed: 10/07/22								
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.9		"	13.3		89.0	23-173			
Surrogate: Toluene-d8	17.4		"	13.3		130	20-170			
Surrogate: 4-Bromofluorobenzene	10.4		"	13.3		77.9	21-167			

LCS (BFJ0179-BS1)		Prepared & Analyzed: 10/07/22								
Benzene	32.7	1.0	ug/l	41.7		78.6	51-132			
Toluene	50.0	1.0	"	41.7		120	51-138			
Ethylbenzene	44.6	1.0	"	41.7		107	58-146			
m,p-Xylene	88.4	2.0	"	83.3		106	57-144			
o-Xylene	43.0	1.0	"	41.7		103	53-146			
Naphthalene	44.8	1.0	"	41.7		107	70-130			
1,2,4-Trimethylbenzene	44.5	1.0	"	41.7		107	70-130			
1,3,5-Trimethylbenzene	46.8	1.0	"	41.7		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	17.0		"	13.3		127	20-170			
Surrogate: 4-Bromofluorobenzene	11.3		"	13.3		84.5	21-167			

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

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

**Reported:**  
10/13/22 10:15

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0179 - EPA 5030 Water MS**

Matrix Spike (BFJ0179-MS1)			Source: 2210068-01		Prepared & Analyzed: 10/07/22					
Benzene	33.1	1.0	ug/l	41.7	ND	79.4	34-141			
Toluene	50.6	1.0	"	41.7	ND	121	27-151			
Ethylbenzene	44.1	1.0	"	41.7	ND	106	29-160			
m,p-Xylene	88.3	2.0	"	83.3	ND	106	20-166			
o-Xylene	42.6	1.0	"	41.7	ND	102	33-159			
Naphthalene	29.5	1.0	"	41.7	ND	70.8	70-130			
1,2,4-Trimethylbenzene	44.4	1.0	"	41.7	ND	106	70-130			
1,3,5-Trimethylbenzene	45.6	1.0	"	41.7	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.6	23-173			
Surrogate: Toluene-d8	17.4		"	13.3		130	20-170			
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3		88.7	21-167			

Matrix Spike Dup (BFJ0179-MSD1)			Source: 2210068-01		Prepared & Analyzed: 10/07/22					
Benzene	32.4	1.0	ug/l	41.7	ND	77.6	34-141	2.20	30	
Toluene	52.4	1.0	"	41.7	ND	126	27-151	3.44	30	
Ethylbenzene	45.4	1.0	"	41.7	ND	109	29-160	2.95	30	
m,p-Xylene	90.8	2.0	"	83.3	ND	109	20-166	2.81	30	
o-Xylene	43.6	1.0	"	41.7	ND	105	33-159	2.44	30	
Naphthalene	32.9	1.0	"	41.7	ND	78.9	70-130	10.9	30	
1,2,4-Trimethylbenzene	45.7	1.0	"	41.7	ND	110	70-130	3.06	30	
1,3,5-Trimethylbenzene	48.0	1.0	"	41.7	ND	115	70-130	4.98	30	
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	23-173			
Surrogate: Toluene-d8	17.8		"	13.3		134	20-170			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3		91.2	21-167			

Summit Scientific

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

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

**Reported:**  
10/13/22 10:15

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0078 - EPA 3550A**

**Blank (BFJ0078-BLK1)**

Prepared & Analyzed: 10/04/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0078-BS1)**

Prepared & Analyzed: 10/04/22

C10-C28 (DRO)	566	50	mg/kg	500	113	70-130
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**Matrix Spike (BFJ0078-MS1)**

Source: 2210045-05

Prepared & Analyzed: 10/04/22

C10-C28 (DRO)	453	50	mg/kg	500	26.3	85.3	70-130
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**Matrix Spike Dup (BFJ0078-MSD1)**

Source: 2210045-05

Prepared & Analyzed: 10/04/22

C10-C28 (DRO)	448	50	mg/kg	500	26.3	84.4	70-130	1.02	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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**PAH by EPA Method 8270D SIM - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0117 - EPA 5030 Soil MS**

**Blank (BFJ0117-BLK1)**

Prepared & Analyzed: 10/06/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.8	40-150			
Surrogate: Fluoranthene-d10	0.0366		"	0.0333		110	40-150			

**LCS (BFJ0117-BS1)**

Prepared & Analyzed: 10/06/22

Acenaphthene	0.0289	0.00500	mg/kg	0.0333		86.6	31-137			
Anthracene	0.0275	0.00500	"	0.0333		82.5	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333		75.6	30-120			
Benzo (a) pyrene	0.0238	0.00500	"	0.0333		71.4	30-120			
Benzo (b) fluoranthene	0.0263	0.00500	"	0.0333		78.9	30-120			
Benzo (k) fluoranthene	0.0272	0.00500	"	0.0333		81.7	30-120			
Chrysene	0.0302	0.00500	"	0.0333		90.5	30-120			
Dibenz (a,h) anthracene	0.0239	0.00500	"	0.0333		71.8	30-120			
Fluoranthene	0.0290	0.00500	"	0.0333		87.0	30-120			
Fluorene	0.0301	0.00500	"	0.0333		90.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0297	0.00500	"	0.0333		89.0	30-120			
Pyrene	0.0290	0.00500	"	0.0333		87.1	35-142			
1-Methylnaphthalene	0.0145	0.00500	"	0.0333		43.6	35-142			
2-Methylnaphthalene	0.0336	0.00500	"	0.0333		101	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0281		"	0.0333		84.3	40-150			
Surrogate: Fluoranthene-d10	0.0280		"	0.0333		84.1	40-150			

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0117 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0117-MS1)

Source: 2210034-01

Prepared & Analyzed: 10/06/22

Acenaphthene	0.0176	0.00500	mg/kg	0.0333	ND	52.8	31-137				
Anthracene	0.0169	0.00500	"	0.0333	ND	50.8	30-120				
Benzo (a) anthracene	0.0186	0.00500	"	0.0333	ND	55.7	30-120				
Benzo (a) pyrene	0.0144	0.00500	"	0.0333	ND	43.2	30-120				
Benzo (b) fluoranthene	0.0125	0.00500	"	0.0333	ND	37.6	30-120				
Benzo (k) fluoranthene	0.0127	0.00500	"	0.0333	ND	38.0	30-120				
Chrysene	0.0192	0.00500	"	0.0333	ND	57.5	30-120				
Dibenz (a,h) anthracene	0.0253	0.00500	"	0.0333	ND	76.0	30-120				
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120				
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120				
Indeno (1,2,3-cd) pyrene	0.0286	0.00500	"	0.0333	ND	85.9	30-120				
Pyrene	0.0167	0.00500	"	0.0333	ND	50.1	35-142				
1-Methylnaphthalene	0.00959	0.00500	"	0.0333	ND	28.8	15-130				
2-Methylnaphthalene	0.0243	0.00500	"	0.0333	ND	72.8	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0226		"	0.0333		67.7	40-150				
Surrogate: Fluoranthene-d10	0.0200		"	0.0333		60.1	40-150				

##### Matrix Spike Dup (BFJ0117-MSD1)

Source: 2210034-01

Prepared & Analyzed: 10/06/22

Acenaphthene	0.0207	0.00500	mg/kg	0.0333	ND	62.1	31-137	16.2	30		
Anthracene	0.0194	0.00500	"	0.0333	ND	58.1	30-120	13.5	30		
Benzo (a) anthracene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	12.1	30		
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	13.3	30		
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	11.2	30		
Benzo (k) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	7.83	30		
Chrysene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	9.25	30		
Dibenz (a,h) anthracene	0.0317	0.00500	"	0.0333	ND	95.2	30-120	22.5	30		
Fluoranthene	0.0212	0.00500	"	0.0333	ND	63.7	30-120	8.11	30		
Fluorene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	9.36	30		
Indeno (1,2,3-cd) pyrene	0.0355	0.00500	"	0.0333	ND	107	30-120	21.5	30		
Pyrene	0.0188	0.00500	"	0.0333	ND	56.3	35-142	11.8	30		
1-Methylnaphthalene	0.00989	0.00500	"	0.0333	ND	29.7	15-130	3.07	50		
2-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.7	15-130	4.44	50		
Surrogate: 2-Methylnaphthalene-d10	0.0224		"	0.0333		67.1	40-150				
Surrogate: Fluoranthene-d10	0.0219		"	0.0333		65.7	40-150				

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0153 - EPA 5030 Soil MS

##### Blank (BFJ0153-BLK1)

Prepared & Analyzed: 10/07/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0165		"	0.0333		49.5	40-150			
Surrogate: Fluoranthene-d10	0.0367		"	0.0333		110	40-150			

##### LCS (BFJ0153-BS1)

Prepared & Analyzed: 10/07/22

Acenaphthene	0.0319	0.00500	mg/kg	0.0333		95.8	31-137			
Anthracene	0.0315	0.00500	"	0.0333		94.5	30-120			
Benzo (a) anthracene	0.0265	0.00500	"	0.0333		79.5	30-120			
Benzo (a) pyrene	0.0253	0.00500	"	0.0333		75.8	30-120			
Benzo (b) fluoranthene	0.0332	0.00500	"	0.0333		99.6	30-120			
Benzo (k) fluoranthene	0.0356	0.00500	"	0.0333		107	30-120			
Chrysene	0.0342	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0196	0.00500	"	0.0333		58.8	30-120			
Fluoranthene	0.0320	0.00500	"	0.0333		95.9	30-120			
Fluorene	0.0331	0.00500	"	0.0333		99.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0295	0.00500	"	0.0333		88.5	30-120			
Pyrene	0.0371	0.00500	"	0.0333		111	35-142			
1-Methylnaphthalene	0.0293	0.00500	"	0.0333		88.0	35-142			
2-Methylnaphthalene	0.0218	0.00500	"	0.0333		65.4	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0323		"	0.0333		96.9	40-150			
Surrogate: Fluoranthene-d10	0.0296		"	0.0333		88.8	40-150			

Summit Scientific

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

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

**Reported:**  
10/13/22 10:15

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0153 - EPA 5030 Soil MS

Matrix Spike (BFJ0153-MS1)			Source: 2210056-01			Prepared & Analyzed: 10/07/22					
Acenaphthene	0.0235	0.00500	mg/kg	0.0333	ND	70.4	31-137				
Anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120				
Benzo (a) anthracene	0.0229	0.00500	"	0.0333	ND	68.6	30-120				
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120				
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.4	30-120				
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	30-120				
Chrysene	0.0235	0.00500	"	0.0333	ND	70.6	30-120				
Dibenz (a,h) anthracene	0.0127	0.00500	"	0.0333	ND	38.0	30-120				
Fluoranthene	0.0230	0.00500	"	0.0333	ND	69.0	30-120				
Fluorene	0.0231	0.00500	"	0.0333	ND	69.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333	ND	55.2	30-120				
Pyrene	0.0251	0.00500	"	0.0333	ND	75.3	35-142				
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130				
2-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.8	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0333		66.2	40-150				
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.0	40-150				

Matrix Spike Dup (BFJ0153-MSD1)			Source: 2210056-01			Prepared & Analyzed: 10/07/22					
Acenaphthene	0.0231	0.00500	mg/kg	0.0333	ND	69.2	31-137	1.78	30		
Anthracene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	1.41	30		
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	2.06	30		
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.3	30-120	1.61	30		
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	5.12	30		
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	4.99	30		
Chrysene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	1.83	30		
Dibenz (a,h) anthracene	0.0128	0.00500	"	0.0333	ND	38.5	30-120	1.35	30		
Fluoranthene	0.0222	0.00500	"	0.0333	ND	66.7	30-120	3.37	30		
Fluorene	0.0223	0.00500	"	0.0333	ND	66.8	30-120	3.82	30		
Indeno (1,2,3-cd) pyrene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	0.928	30		
Pyrene	0.0237	0.00500	"	0.0333	ND	71.2	35-142	5.50	30		
1-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.8	15-130	4.30	50		
2-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.1	15-130	3.37	50		
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		66.0	40-150				
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.2	40-150				

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0127 - EPA 3050B**

**Blank (BFJ0127-BLK1)**

Prepared: 10/06/22 Analyzed: 10/09/22

Boron ND 0.0100 mg/L

**LCS (BFJ0127-BS1)**

Prepared: 10/06/22 Analyzed: 10/09/22

Boron 5.38 0.0100 mg/L 5.00 108 80-120

**Duplicate (BFJ0127-DUP1)**

**Source: 2210016-11**

Prepared: 10/06/22 Analyzed: 10/09/22

Boron ND 0.0100 mg/L ND 20

**Matrix Spike (BFJ0127-MS1)**

**Source: 2210016-11**

Prepared: 10/06/22 Analyzed: 10/09/22

Boron 5.35 0.0100 mg/L 5.00 ND 107 75-125

**Matrix Spike Dup (BFJ0127-MSD1)**

**Source: 2210016-11**

Prepared: 10/06/22 Analyzed: 10/09/22

Boron 5.73 0.0100 mg/L 5.00 ND 115 75-125 6.93 25

**Batch BFJ0165 - EPA 3050B**

**Blank (BFJ0165-BLK1)**

Prepared: 10/07/22 Analyzed: 10/09/22

Boron ND 0.0100 mg/L

**LCS (BFJ0165-BS1)**

Prepared: 10/07/22 Analyzed: 10/09/22

Boron 5.71 0.0100 mg/L 5.00 114 80-120

**Duplicate (BFJ0165-DUP1)**

**Source: 2210018-01**

Prepared: 10/07/22 Analyzed: 10/09/22

Boron ND 0.0100 mg/L ND 20

**Matrix Spike (BFJ0165-MS1)**

**Source: 2210018-01**

Prepared: 10/07/22 Analyzed: 10/09/22

Boron 5.58 0.0100 mg/L 5.00 ND 112 75-125

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]

Project Manager: Ben Baugh

**Reported:**

10/13/22 10:15

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0165 - EPA 3050B**

**Matrix Spike Dup (BFJ0165-MSD1)**

**Source: 2210018-01**

Prepared: 10/07/22 Analyzed: 10/09/22

Boron	5.52	0.0100	mg/L	5.00	ND	110	75-125	1.18	25	
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Summit Scientific

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

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

**Reported:**  
10/13/22 10:15

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0164 - EPA 3050B**

**Blank (BFJ0164-BLK1)**

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0164-BS1)**

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	42.1	0.200	mg/kg wet	40.0	105	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	1.94	0.200	"	2.00	96.8	80-120
Copper	41.9	0.400	"	40.0	105	80-120
Lead	18.8	0.200	"	20.0	93.8	80-120
Nickel	41.1	0.400	"	40.0	103	80-120
Selenium	4.08	0.260	"	4.00	102	80-120
Silver	1.90	0.0200	"	2.00	95.2	80-120
Zinc	42.4	0.400	"	40.0	106	80-120

**Duplicate (BFJ0164-DUP1)**

Source: 2210016-21

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	3.18	0.233	mg/kg dry	3.35	5.26	20
Barium	34.3	0.466	"	36.3	5.84	20
Cadmium	0.219	0.233	"	0.239	9.03	20
Copper	10.5	0.466	"	10.8	3.11	20
Lead	9.81	0.233	"	10.3	5.19	20
Nickel	8.43	0.466	"	8.86	4.96	20
Selenium	1.06	0.303	"	0.943	11.7	20
Silver	0.0255	0.0233	"	0.0268	4.79	20
Zinc	45.8	0.466	"	47.4	3.49	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 - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0164 - EPA 3050B**

Matrix Spike (BFJ0164-MS1)		Source: 2210016-21			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.0	0.233	mg/kg dry	46.6	3.35	91.5	75-125			
Barium	94.1	0.466	"	46.6	36.3	124	75-125			
Cadmium	2.39	0.233	"	2.33	0.239	92.3	75-125			
Copper	53.3	0.466	"	46.6	10.8	91.1	75-125			
Lead	28.6	0.233	"	23.3	10.3	78.4	75-125			
Nickel	52.5	0.466	"	46.6	8.86	93.8	75-125			
Selenium	4.63	0.303	"	4.66	0.943	79.1	75-125			
Silver	2.16	0.0233	"	2.33	0.0268	91.4	75-125			
Zinc	89.4	0.466	"	46.6	47.4	90.1	75-125			

Matrix Spike Dup (BFJ0164-MSD1)		Source: 2210016-21			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.6	0.233	mg/kg dry	46.6	3.35	92.8	75-125	1.33	25	QM-07
Barium	99.3	0.466	"	46.6	36.3	135	75-125	5.40	25	
Cadmium	2.56	0.233	"	2.33	0.239	99.6	75-125	6.84	25	
Copper	54.2	0.466	"	46.6	10.8	93.1	75-125	1.79	25	
Lead	30.5	0.233	"	23.3	10.3	86.5	75-125	6.36	25	
Nickel	53.3	0.466	"	46.6	8.86	95.3	75-125	1.35	25	
Selenium	4.86	0.303	"	4.66	0.943	84.0	75-125	4.79	25	
Silver	2.32	0.0233	"	2.33	0.0268	98.6	75-125	7.47	25	
Zinc	90.4	0.466	"	46.6	47.4	92.3	75-125	1.13	25	

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0309 - 3060A Mod**

**Blank (BFJ0309-BLK1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0309-BS1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 27.7 0.30 mg/kg wet 25.0 111 80-120

**Duplicate (BFJ0309-DUP1)**

**Source: 2210015-01**

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0309-MS1)**

**Source: 2210015-01**

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 32.5 0.30 mg/kg dry 29.7 ND 109 75-125

**Matrix Spike Dup (BFJ0309-MSD1)**

**Source: 2210015-01**

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 31.7 0.30 mg/kg dry 29.7 ND 107 75-125 2.59 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0175 - General Preparation**

**Blank (BFJ0175-BLK1)**

Prepared: 10/07/22 Analyzed: 10/10/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0175-BS1)**

Prepared: 10/07/22 Analyzed: 10/10/22

Calcium	5.90	0.0500	mg/L wet	5.00	118	70-130
Magnesium	5.78	0.0500	"	5.00	116	70-130
Sodium	5.61	0.0500	"	5.00	112	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

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

**Summit Scientific**

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

**Batch BFJ0159 - General Preparation**

**Duplicate (BFJ0159-DUP1)**

**Source: 2210017-01**

Prepared: 10/07/22 Analyzed: 10/10/22

% Solids	85.9	%	86.2	0.308	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0185 - General Preparation**

**Blank (BFJ0185-BLK1)**

Prepared: 10/07/22 Analyzed: 10/12/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0185-BS1)**

Prepared: 10/07/22 Analyzed: 10/12/22

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.5 95-105

**Duplicate (BFJ0185-DUP1)**

**Source: 2210016-11**

Prepared: 10/07/22 Analyzed: 10/12/22

Specific Conductance (EC) 0.617 0.0100 mmhos/cm 0.617 0.0486 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0184 - General Preparation**

**LCS (BFJ0184-BS1)**

Prepared: 10/07/22 Analyzed: 10/13/22

pH	9.05	pH Units	9.18	98.6	95-105
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**Duplicate (BFJ0184-DUP1)**

**Source: 2210016-11**

Prepared: 10/07/22 Analyzed: 10/13/22

pH	7.14	pH Units	7.08	0.844	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/13/22 10:15

### Notes and Definitions

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, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210065

Enclosed are the results of analyses for samples received by Summit Scientific on 10/05/22 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX03@14	2210065-01	Soil	10/05/22 10:30	10/05/22 16:30
EX04@10	2210065-02	Soil	10/05/22 14:00	10/05/22 16:30
EX05@10	2210065-03	Soil	10/05/22 14:05	10/05/22 16:30
EX06@10	2210065-04	Soil	10/05/22 14:10	10/05/22 16:30
EX07@10	2210065-05	Soil	10/05/22 14:15	10/05/22 16:30
EX08@10	2210065-06	Soil	10/05/22 14:20	10/05/22 16:30
EX09@10	2210065-07	Soil	10/05/22 14:25	10/05/22 16:30
EX10@10	2210065-08	Soil	10/05/22 14:30	10/05/22 16:30
EX11@10	2210065-09	Soil	10/05/22 14:35	10/05/22 16:30
EX12@10	2210065-10	Soil	10/05/22 14:40	10/05/22 16:30
EX13@10	2210065-11	Soil	10/05/22 14:45	10/05/22 16:30
EX14@14	2210065-12	Soil	10/05/22 14:50	10/05/22 16:30
EX02@14.5	2210065-13	Soil	10/05/22 14:55	10/05/22 16:30
EX15@14	2210065-14	Soil	10/05/22 15:05	10/05/22 16:30

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.*

220065.1

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: Entrada Consulting GroupProject Manager: Ben Baugh

Address:

E-Mail: BBaugh@entradainc.com ;

City/State/Zip:

PDC EHS ; lveryscr@entradainc.comPhone: 586 945 6355Project Name: Merishon padSampler Name: Chelsea Veryscr

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1								
1	EX 03 @ 14	10/5/22	1030	3			X			X				X							<u>see notes</u>
2	EX 04 @ 10		1400																		
3	EX 05 @ 10		1405																		
4	EX 06 @ 10		1410																		
5	EX 07 @ 10		1415																		
6	EX 08 @ 10		1420																		
7	EX 09 @ 10		1425																		
8	EX 10 @ 10		1430																		
9	EX 11 @ 10		1435																		
10	EX 12 @ 10	V	1440	V			V			V				V							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>10/5/22 16:30</u>		Received by: <u>[Signature]</u>		Date/Time: <u>10/5/22 1630</u>		Turn Around Time (Check)		Same Day <u>X</u>		72 hours <u>X</u>		Standard <u>X</u>		Notes: <u>Same day BTEXN, TMBS + TPH</u>					
Relinquished by:		Date/Time:		Received by:		Date/Time:		24 hours		48 hours		Sample Integrity:		Samples Intact: <u>Yes</u> No							
Temperature Upon Receipt: <u>10.7</u>				Corrected Temperature <u>10.7</u>				HNO <sub>3</sub> lot #													
IR gun correction: <u>0</u>				IR gun #: <u>1</u>																	

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

Client: Entrada Consulting Group Project Manager: Ben Baugh  
 Address: \_\_\_\_\_ E-Mail: baugh@entrada inc. com  
 City/State/Zip: \_\_\_\_\_ PDC EHS ; everyser@entrada inc. com  
 Phone: 586 945 6355 Project Name: \_\_\_\_\_  
 Sampler Name: Chrisa Vercier Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other									
1	EX13 @10	10/5/22	1445	3			X			X											See notes
2	EX14 @14		1450	1																	
3	EX02 @14.5		1455	1																	
4	EX15 @14		1505	1																	
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/5/22 16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/5/22 16:30</u>	Turn Around Time (Check)	Same Day <u>X</u> 24 hours <u>—</u> 48 hours <u>—</u> Sample Integrity: <u>Yes</u> Samples Intact: <u>Yes</u>	72 hours <u>X</u> Standard <u>—</u> No <u>—</u>	Notes: Same day BTEXN, TMS + TPH
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____				
Temperature Upon Receipt: <u>10.7</u>	Corrected Temperature: <u>—</u>	HNO <sub>3</sub> lot # _____	IR gun correction: <u>—</u>	IR gun #: <u>1</u>			

S<sub>2</sub>

2/2

## Sample Receipt Checklist

S2 Work Order#

2210065

Client: Entrada Client Project ID: Marshon PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 10.7Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time

10.5.22 18:50





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

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

**Reported:**  
10/17/22 08:49

**EX03@14**  
**2210065-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0348	86.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0367	91.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.6	92.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX03@14**  
**2210065-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0277	83.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0471</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX03@14**  
**2210065-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.30	0.235	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	31.9	0.469	"	"	"	"	"	"
Cadmium	ND	0.235	"	"	"	"	"	"
Copper	4.67	0.469	"	"	"	"	"	"
Lead	4.80	0.235	"	"	"	"	"	"
Nickel	4.67	0.469	"	"	"	"	"	"
Selenium	ND	0.305	"	"	"	"	"	"
Silver	ND	0.0235	"	"	"	"	"	"
Zinc	17.5	0.469	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	80.0	0.0587	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	27.4	0.0587	"	"	"	"	"	"	
Sodium	56.3	0.0587	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:49

**EX03@14**  
**2210065-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.808	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

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

**Reported:**  
10/17/22 08:49

**EX04@10**  
**2210065-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0358	89.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0367	91.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.8	86.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:49

**EX04@10**  
**2210065-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0275	82.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.121</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX04@10**  
**2210065-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.41	0.238	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	72.1	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	5.81	0.476	"	"	"	"	"	"
Lead	7.89	0.238	"	"	"	"	"	"
Nickel	6.07	0.476	"	"	"	"	"	"
Selenium	ND	0.309	"	"	"	"	"	"
Silver	0.0414	0.0238	"	"	"	"	"	"
Zinc	24.2	0.476	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.5	0.0595	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	37.7	0.0595	"	"	"	"	"	"	
Sodium	40.7	0.0595	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.00	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:49

**EX04@10**  
**2210065-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.713	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

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

**Reported:**  
10/17/22 08:49

**EX05@10**  
**2210065-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0353	88.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.24	74.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:49

**EX05@10**  
**2210065-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0225</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX05@10**  
**2210065-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.77	0.237	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	55.9	0.475	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	3.86	0.475	"	"	"	"	"	"
Lead	4.75	0.237	"	"	"	"	"	"
Nickel	5.25	0.475	"	"	"	"	"	"
Selenium	ND	0.309	"	"	"	"	"	"
Silver	ND	0.0237	"	"	"	"	"	"
Zinc	17.2	0.475	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	325	0.0594	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	88.7	0.0594	"	"	"	"	"	"	
Sodium	64.1	0.0594	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.813	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:49

**EX05@10**  
**2210065-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.92	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.62		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

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

**Reported:**  
10/17/22 08:49

**EX06@10**  
**2210065-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0357	89.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0376	94.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	80.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:49

**EX06@10**  
**2210065-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	56.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0272	81.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0215</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX06@10**  
**2210065-04 (Soil)**

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**Total Metals by EPA 6020B**

Arsenic	1.21	0.217	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	59.9	0.434	"	"	"	"	"	"
Cadmium	ND	0.217	"	"	"	"	"	"
Copper	4.14	0.434	"	"	"	"	"	"
Lead	5.20	0.217	"	"	"	"	"	"
Nickel	5.21	0.434	"	"	"	"	"	"
Selenium	ND	0.282	"	"	"	"	"	"
Silver	0.0321	0.0217	"	"	"	"	"	"
Zinc	16.7	0.434	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.3	0.0542	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	40.4	0.0542	"	"	"	"	"	"	
Sodium	48.9	0.0542	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX06@10**  
**2210065-04 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0811	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.58		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

**Reported:**  
10/17/22 08:49

**EX07@10**  
**2210065-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0350	87.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0365	91.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.17	73.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

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10/17/22 08:49

**EX07@10**  
**2210065-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0245	73.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0173</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

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10/17/22 08:49

**EX07@10**  
**2210065-05 (Soil)**

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**Total Metals by EPA 6020B**

Arsenic	1.77	0.215	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	53.4	0.429	"	"	"	"	"	"
Cadmium	ND	0.215	"	"	"	"	"	"
Copper	3.17	0.429	"	"	"	"	"	"
Lead	5.25	0.215	"	"	"	"	"	"
Nickel	4.28	0.429	"	"	"	"	"	"
Selenium	ND	0.279	"	"	"	"	"	"
Silver	0.0219	0.0215	"	"	"	"	"	"
Zinc	12.6	0.429	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.1	0.0536	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	38.1	0.0536	"	"	"	"	"	"	
Sodium	43.2	0.0536	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.02	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

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10/17/22 08:49

**EX07@10**  
**2210065-05 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.823	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

**Reported:**  
10/17/22 08:49

**EX08@10**  
**2210065-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0353	88.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0372	92.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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10/17/22 08:49

**EX08@10**  
**2210065-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0269	80.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX08@10**  
**2210065-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.58	0.218	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	42.4	0.435	"	"	"	"	"	"
Cadmium	ND	0.218	"	"	"	"	"	"
Copper	3.68	0.435	"	"	"	"	"	"
Lead	5.25	0.218	"	"	"	"	"	"
Nickel	4.76	0.435	"	"	"	"	"	"
Selenium	ND	0.283	"	"	"	"	"	"
Silver	0.0222	0.0218	"	"	"	"	"	"
Zinc	15.7	0.435	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.3	0.0544	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	21.3	0.0544	"	"	"	"	"	"	
Sodium	30.0	0.0544	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.874	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX08@10**  
**2210065-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.582	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

**Reported:**  
10/17/22 08:49

**EX09@10**  
**2210065-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0358	89.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.4	91.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:49

**EX09@10**  
**2210065-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0284	85.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0333</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX09@10**  
**2210065-07 (Soil)**

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**Total Metals by EPA 6020B**

Arsenic	1.42	0.222	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	53.1	0.444	"	"	"	"	"	"
Cadmium	ND	0.222	"	"	"	"	"	"
Copper	4.00	0.444	"	"	"	"	"	"
Lead	4.63	0.222	"	"	"	"	"	"
Nickel	4.96	0.444	"	"	"	"	"	"
Selenium	ND	0.289	"	"	"	"	"	"
Silver	ND	0.0222	"	"	"	"	"	"
Zinc	15.9	0.444	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.9	0.0555	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	21.1	0.0555	"	"	"	"	"	"	
Sodium	63.0	0.0555	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.99	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX09@10**  
**2210065-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.0</b>		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.596</b>	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.77</b>		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX10@10**  
**2210065-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0356	89.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:49

**EX10@10**  
**2210065-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0137	41.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0276	82.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0458</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:49

**EX10@10**  
**2210065-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.05	0.236	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	71.2	0.472	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
Copper	3.98	0.472	"	"	"	"	"	"
Lead	3.71	0.236	"	"	"	"	"	"
Nickel	4.69	0.472	"	"	"	"	"	"
Selenium	ND	0.307	"	"	"	"	"	"
Silver	ND	0.0236	"	"	"	"	"	"
Zinc	15.4	0.472	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	334	0.0591	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	76.4	0.0591	"	"	"	"	"	"	
Sodium	91.9	0.0591	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX10@10**  
**2210065-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.7			%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.01	0.0100		mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.77			pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

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

**Reported:**  
10/17/22 08:49

**EX11@10**  
**2210065-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0357	89.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0372	92.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:49

**EX11@10**  
**2210065-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0119</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX11@10**  
**2210065-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.17	0.244	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	59.2	0.488	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	4.73	0.488	"	"	"	"	"	"
Lead	5.17	0.244	"	"	"	"	"	"
Nickel	5.87	0.488	"	"	"	"	"	"
Selenium	ND	0.317	"	"	"	"	"	"
Silver	ND	0.0244	"	"	"	"	"	"
Zinc	20.2	0.488	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	383	0.0609	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	46.6	0.0609	"	"	"	"	"	"	
Sodium	70.3	0.0609	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.903	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:49

**EX11@10**  
**2210065-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.97	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:49

**EX12@10**  
**2210065-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0354	88.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX12@10**  
**2210065-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0290	87.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

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10/17/22 08:49

**EX12@10**  
**2210065-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.31	0.238	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	72.7	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	4.12	0.476	"	"	"	"	"	"
Lead	4.66	0.238	"	"	"	"	"	"
Nickel	5.50	0.476	"	"	"	"	"	"
Selenium	ND	0.309	"	"	"	"	"	"
Silver	ND	0.0238	"	"	"	"	"	"
Zinc	18.0	0.476	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	140	0.0595	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	42.7	0.0595	"	"	"	"	"	"	
Sodium	35.6	0.0595	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.676	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:49

**EX12@10**  
**2210065-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.986	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

**Reported:**  
10/17/22 08:49

**EX13@10**  
**2210065-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0363	90.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0355	88.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0364	91.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.4	90.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:49

**EX13@10**  
**2210065-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0191	57.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0694</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX13@10**  
**2210065-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.72	0.247	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	149	0.494	"	"	"	"	"	"
Cadmium	0.339	0.247	"	"	"	"	"	"
Copper	7.53	0.494	"	"	"	"	"	"
Lead	10.1	0.247	"	"	"	"	"	"
Nickel	8.10	0.494	"	"	"	"	"	"
Selenium	ND	0.321	"	"	"	"	"	"
Silver	0.0722	0.0247	"	"	"	"	"	"
Zinc	28.0	0.494	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.1	0.0618	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	21.5	0.0618	"	"	"	"	"	"	
Sodium	43.9	0.0618	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.40	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:49

**EX13@10**  
**2210065-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.9	%	1	BFJ0239	10/10/22	10/14/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.449	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX14@14**  
**2210065-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0357	89.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0372	93.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.1	97.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX14@14**  
**2210065-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0287	86.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0219</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX14@14**  
**2210065-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.29	0.245	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	16.5	0.490	"	"	"	"	"	"
Cadmium	ND	0.245	"	"	"	"	"	"
Copper	3.81	0.490	"	"	"	"	"	"
Lead	4.31	0.245	"	"	"	"	"	"
Nickel	4.20	0.490	"	"	"	"	"	"
Selenium	ND	0.319	"	"	"	"	"	"
Silver	ND	0.0245	"	"	"	"	"	"
Zinc	14.9	0.490	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	76.0	0.0613	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	24.5	0.0613	"	"	"	"	"	"	
Sodium	54.5	0.0613	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:49

**EX14@14**  
**2210065-12 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.676	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:49

**EX02@14.5**  
**2210065-13 (Soil)**

### Summit Scientific

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0358	89.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.0 %	50-150		"	"	"	"	

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.4	91.2 %	30-150		"	"	"	"	

#### PAH by EPA Method 8270D SIM

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

**Reported:**  
10/17/22 08:49

**EX02@14.5**  
**2210065-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0317	95.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0441</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX02@14.5**  
**2210065-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.44	0.235	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
Barium	50.7	0.471	"	"	"	"	"	"
Cadmium	ND	0.235	"	"	"	"	"	"
Copper	4.12	0.471	"	"	"	"	"	"
Lead	5.22	0.235	"	"	"	"	"	"
Nickel	5.04	0.471	"	"	"	"	"	"
Selenium	ND	0.306	"	"	"	"	"	"
Silver	ND	0.0235	"	"	"	"	"	"
Zinc	17.3	0.471	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.0	0.0588	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	40.9	0.0588	"	"	"	"	"	"	
Sodium	56.2	0.0588	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.37	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:49

**EX02@14.5**  
**2210065-13 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.747	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:49

**EX15@14**  
**2210065-14 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0349	87.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	91.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0113	10/05/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX15@14**  
**2210065-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0198	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	45.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0323	97.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0559</b>	0.0100	mg/L	1	BFJ0237	10/10/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX15@14**  
**2210065-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

<b>Arsenic</b>	<b>1.34</b>	0.235	mg/kg dry	1	BFJ0233	10/10/22	10/11/22	EPA 6020B
<b>Barium</b>	<b>23.4</b>	0.471	"	"	"	"	"	"
Cadmium	ND	0.235	"	"	"	"	"	"
<b>Copper</b>	<b>4.02</b>	0.471	"	"	"	"	"	"
<b>Lead</b>	<b>5.03</b>	0.235	"	"	"	"	"	"
<b>Nickel</b>	<b>4.68</b>	0.471	"	"	"	"	"	"
Selenium	ND	0.306	"	"	"	"	"	"
Silver	ND	0.0235	"	"	"	"	"	"
<b>Zinc</b>	<b>17.2</b>	0.471	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0312	10/13/22	10/13/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>125</b>	0.0588	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
<b>Magnesium</b>	<b>31.1</b>	0.0588	"	"	"	"	"	"	
<b>Sodium</b>	<b>56.0</b>	0.0588	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.16</b>	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**EX15@14**  
**2210065-14 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.994	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/05/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0112 - EPA 5030 Soil MS

##### Blank (BFJ0112-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.2	50-150			
Surrogate: Toluene-d8	0.0353		"	0.0400		88.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	50-150			

##### LCS (BFJ0112-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	0.110	0.0020	mg/kg	0.125		88.2	70-130			
Toluene	0.114	0.0050	"	0.125		91.0	70-130			
Ethylbenzene	0.150	0.0050	"	0.125		120	70-130			
m,p-Xylene	0.298	0.010	"	0.250		119	70-130			
o-Xylene	0.134	0.0050	"	0.125		107	70-130			
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.125		106	70-130			
1,3,5-Trimethylbenzene	0.136	0.0050	"	0.125		109	70-130			
Naphthalene	0.125	0.0038	"	0.125		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		92.9	50-150			
Surrogate: Toluene-d8	0.0359		"	0.0400		89.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0356		"	0.0400		89.0	50-150			

##### Matrix Spike (BFJ0112-MS1)

Source: 2210065-01

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	0.111	0.0020	mg/kg	0.125	ND	88.8	70-130			
Toluene	0.114	0.0050	"	0.125	ND	91.3	70-130			
Ethylbenzene	0.148	0.0050	"	0.125	ND	119	70-130			
m,p-Xylene	0.297	0.010	"	0.250	ND	119	70-130			
o-Xylene	0.134	0.0050	"	0.125	ND	107	70-130			
1,2,4-Trimethylbenzene	0.130	0.0050	"	0.125	ND	104	70-130			
1,3,5-Trimethylbenzene	0.134	0.0050	"	0.125	ND	108	70-130			
Naphthalene	0.135	0.0038	"	0.125	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.3	50-150			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0351		"	0.0400		87.7	50-150			

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

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

**Reported:**  
10/17/22 08:49

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0112 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0112-MSD1)		Source: 2210065-01			Prepared: 10/05/22 Analyzed: 10/06/22					
Benzene	0.139	0.0020	mg/kg	0.125	ND	111	70-130	22.1	30	
Toluene	0.142	0.0050	"	0.125	ND	114	70-130	21.8	30	
Ethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130	0.243	30	
m,p-Xylene	0.295	0.010	"	0.250	ND	118	70-130	0.649	30	
o-Xylene	0.132	0.0050	"	0.125	ND	105	70-130	1.63	30	
1,2,4-Trimethylbenzene	0.131	0.0050	"	0.125	ND	105	70-130	0.506	30	
1,3,5-Trimethylbenzene	0.127	0.0050	"	0.125	ND	102	70-130	5.46	30	
Naphthalene	0.140	0.0038	"	0.125	ND	112	70-130	3.01	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.1	50-150			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.5	50-150			

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

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

**Reported:**  
10/17/22 08:49

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0113 - EPA 3550A**

**Blank (BFJ0113-BLK1)**

Prepared: 10/05/22 Analyzed: 10/06/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0113-BS1)**

Prepared: 10/05/22 Analyzed: 10/06/22

C10-C28 (DRO)	568	50	mg/kg	500	114	70-130
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**Matrix Spike (BFJ0113-MS1)**

Source: 2210065-01

Prepared: 10/05/22 Analyzed: 10/06/22

C10-C28 (DRO)	555	50	mg/kg	500	34.7	104	70-130
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**Matrix Spike Dup (BFJ0113-MSD1)**

Source: 2210065-01

Prepared: 10/05/22 Analyzed: 10/06/22

C10-C28 (DRO)	569	50	mg/kg	500	34.7	107	70-130	2.47	20
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:49

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0198 - EPA 5030 Soil MS

##### Blank (BFJ0198-BLK1)

Prepared & Analyzed: 10/10/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0190		"	0.0333		57.1	40-150			
Surrogate: Fluoranthene-d10	0.0330		"	0.0333		98.9	40-150			

##### LCS (BFJ0198-BS1)

Prepared & Analyzed: 10/10/22

Acenaphthene	0.0299	0.00500	mg/kg	0.0333		89.7	31-137			
Anthracene	0.0291	0.00500	"	0.0333		87.4	30-120			
Benzo (a) anthracene	0.0274	0.00500	"	0.0333		82.1	30-120			
Benzo (a) pyrene	0.0292	0.00500	"	0.0333		87.6	30-120			
Benzo (b) fluoranthene	0.0302	0.00500	"	0.0333		90.6	30-120			
Benzo (k) fluoranthene	0.0303	0.00500	"	0.0333		90.9	30-120			
Chrysene	0.0301	0.00500	"	0.0333		90.4	30-120			
Dibenz (a,h) anthracene	0.0322	0.00500	"	0.0333		96.7	30-120			
Fluoranthene	0.0312	0.00500	"	0.0333		93.5	30-120			
Fluorene	0.0308	0.00500	"	0.0333		92.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0296	0.00500	"	0.0333		88.7	30-120			
Pyrene	0.0316	0.00500	"	0.0333		94.7	35-142			
1-Methylnaphthalene	0.0255	0.00500	"	0.0333		76.6	35-142			
2-Methylnaphthalene	0.0440	0.00500	"	0.0333		132	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0256		"	0.0333		76.9	40-150			
Surrogate: Fluoranthene-d10	0.0294		"	0.0333		88.1	40-150			

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

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

**Reported:**  
10/17/22 08:49

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0198 - EPA 5030 Soil MS

Matrix Spike (BFJ0198-MS1)			Source: 2210065-01		Prepared & Analyzed: 10/10/22					
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137			
Anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120			
Benzo (a) anthracene	0.0261	0.00500	"	0.0333	ND	78.2	30-120			
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.2	30-120			
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	56.9	30-120			
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120			
Chrysene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0333	ND	56.2	30-120			
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.7	30-120			
Fluorene	0.0214	0.00500	"	0.0333	ND	64.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0252	0.00500	"	0.0333	ND	75.7	30-120			
Pyrene	0.0202	0.00500	"	0.0333	ND	60.5	35-142			
1-Methylnaphthalene	0.00670	0.00500	"	0.0333	ND	20.1	15-130			
2-Methylnaphthalene	0.0289	0.00500	"	0.0333	ND	86.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0189		"	0.0333		56.6	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.8	40-150			

Matrix Spike Dup (BFJ0198-MSD1)			Source: 2210065-01		Prepared & Analyzed: 10/10/22					
Acenaphthene	0.0231	0.00500	mg/kg	0.0333	ND	69.3	31-137	5.53	30	
Anthracene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	8.08	30	
Benzo (a) anthracene	0.0275	0.00500	"	0.0333	ND	82.6	30-120	5.57	30	
Benzo (a) pyrene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	3.11	30	
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	0.421	30	
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	2.70	30	
Chrysene	0.0221	0.00500	"	0.0333	ND	66.2	30-120	2.28	30	
Dibenz (a,h) anthracene	0.0183	0.00500	"	0.0333	ND	54.9	30-120	2.37	30	
Fluoranthene	0.0244	0.00500	"	0.0333	ND	73.1	30-120	7.67	30	
Fluorene	0.0225	0.00500	"	0.0333	ND	67.5	30-120	5.10	30	
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333	ND	77.6	30-120	2.58	30	
Pyrene	0.0208	0.00500	"	0.0333	ND	62.4	35-142	3.16	30	
1-Methylnaphthalene	0.00699	0.00500	"	0.0333	ND	21.0	15-130	4.24	50	
2-Methylnaphthalene	0.0311	0.00500	"	0.0333	ND	93.2	15-130	7.18	50	
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.6	40-150			
Surrogate: Fluoranthene-d10	0.0259		"	0.0333		77.6	40-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0237 - EPA 3050B**

**Blank (BFJ0237-BLK1)**

Prepared: 10/10/22 Analyzed: 10/12/22

Boron ND 0.0100 mg/L

**LCS (BFJ0237-BS1)**

Prepared: 10/10/22 Analyzed: 10/12/22

Boron 5.43 0.0100 mg/L 5.00 109 80-120

**Duplicate (BFJ0237-DUP1)**

**Source: 2210065-01**

Prepared: 10/10/22 Analyzed: 10/12/22

Boron 0.0543 0.0100 mg/L 0.0471 14.1 20

**Matrix Spike (BFJ0237-MS1)**

**Source: 2210065-01**

Prepared: 10/10/22 Analyzed: 10/12/22

Boron 5.46 0.0100 mg/L 5.00 0.0471 108 75-125

**Matrix Spike Dup (BFJ0237-MSD1)**

**Source: 2210065-01**

Prepared: 10/10/22 Analyzed: 10/12/22

Boron 5.61 0.0100 mg/L 5.00 0.0471 111 75-125 2.74 25

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

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

**Reported:**  
10/17/22 08:49

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0233 - EPA 3050B**

**Blank (BFJ0233-BLK1)**

Prepared: 10/10/22 Analyzed: 10/11/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0233-BS1)**

Prepared: 10/10/22 Analyzed: 10/11/22

Arsenic	41.7	0.200	mg/kg wet	40.0	104	80-120
Barium	40.6	0.400	"	40.0	102	80-120
Cadmium	2.09	0.200	"	2.00	104	80-120
Copper	45.1	0.400	"	40.0	113	80-120
Lead	20.5	0.200	"	20.0	103	80-120
Nickel	42.4	0.400	"	40.0	106	80-120
Selenium	4.61	0.260	"	4.00	115	80-120
Silver	2.08	0.0200	"	2.00	104	80-120
Zinc	44.1	0.400	"	40.0	110	80-120

**Duplicate (BFJ0233-DUP1)**

Source: 2210065-01

Prepared: 10/10/22 Analyzed: 10/11/22

Arsenic	1.34	0.235	mg/kg dry	1.30	2.60	20
Barium	32.5	0.469	"	31.9	1.84	20
Cadmium	0.167	0.235	"	0.156	6.40	20
Copper	4.06	0.469	"	4.67	14.0	20
Lead	4.85	0.235	"	4.80	1.19	20
Nickel	4.77	0.469	"	4.67	2.10	20
Selenium	ND	0.305	"	ND		20
Silver	0.0197	0.0235	"	0.0169	15.4	20
Zinc	17.0	0.469	"	17.5	2.77	20

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

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

**Reported:**  
10/17/22 08:49

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0233 - EPA 3050B**

Matrix Spike (BFJ0233-MS1)		Source: 2210065-01			Prepared: 10/10/22 Analyzed: 10/11/22					
Arsenic	39.8	0.235	mg/kg dry	46.9	1.30	82.1	75-125			
Barium	82.4	0.469	"	46.9	31.9	108	75-125			
Cadmium	2.63	0.235	"	2.35	0.156	105	75-125			
Copper	41.4	0.469	"	46.9	4.67	78.2	75-125			
Lead	28.5	0.235	"	23.5	4.80	101	75-125			
Nickel	40.5	0.469	"	46.9	4.67	76.3	75-125			
Selenium	5.35	0.305	"	4.69	ND	114	75-125			
Silver	2.36	0.0235	"	2.35	0.0169	100	75-125			
Zinc	54.2	0.469	"	46.9	17.5	78.2	75-125			

Matrix Spike Dup (BFJ0233-MSD1)		Source: 2210065-01			Prepared: 10/10/22 Analyzed: 10/11/22					
Arsenic	39.8	0.235	mg/kg dry	46.9	1.30	82.1	75-125	0.100	25	
Barium	84.8	0.469	"	46.9	31.9	113	75-125	2.79	25	
Cadmium	2.64	0.235	"	2.35	0.156	106	75-125	0.232	25	
Copper	42.0	0.469	"	46.9	4.67	79.5	75-125	1.55	25	
Lead	29.4	0.235	"	23.5	4.80	105	75-125	3.00	25	
Nickel	41.2	0.469	"	46.9	4.67	77.9	75-125	1.93	25	
Selenium	5.29	0.305	"	4.69	ND	113	75-125	1.16	25	
Silver	2.41	0.0235	"	2.35	0.0169	102	75-125	1.77	25	
Zinc	54.9	0.469	"	46.9	17.5	79.8	75-125	1.37	25	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0312 - 3060A Mod**

**Blank (BFJ0312-BLK1)**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0312-BS1)**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent 22.4 0.30 mg/kg wet 25.0 89.8 80-120

**Duplicate (BFJ0312-DUP1)**

**Source: 2210065-01**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0312-MS1)**

**Source: 2210065-01**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent 27.1 0.30 mg/kg dry 29.3 ND 92.4 75-125

**Matrix Spike Dup (BFJ0312-MSD1)**

**Source: 2210065-01**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.3 ND 99.2 75-125 7.10 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0243 - General Preparation**

**Blank (BFJ0243-BLK1)**

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0243-BS1)**

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	5.12	0.0500	mg/L wet	5.00	102	70-130
Magnesium	6.13	0.0500	"	5.00	123	70-130
Sodium	5.65	0.0500	"	5.00	113	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

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

**Summit Scientific**

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

**Batch BFJ0239 - General Preparation**

**Duplicate (BFJ0239-DUP1)**

Source: 2210065-01

Prepared: 10/10/22 Analyzed: 10/14/22

% Solids	84.5	%		85.2		0.876	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0262 - General Preparation**

**Blank (BFJ0262-BLK1)**

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0262-BS1)**

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BFJ0262-DUP1)**

**Source: 2210065-01**

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.822 0.0100 mmhos/cm 0.808 1.68 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 - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0261 - General Preparation**

**LCS (BFJ0261-BS1)**

Prepared: 10/11/22 Analyzed: 10/14/22

pH	8.98	pH Units	9.18	97.8	95-105
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**Duplicate (BFJ0261-DUP1)**

**Source: 2210065-01**

Prepared: 10/11/22 Analyzed: 10/14/22

pH	7.66	pH Units	7.68	0.261	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:49

### 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

October 21, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210095

Enclosed are the results of analyses for samples received by Summit Scientific on 10/06/22 17:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX04@5	2210095-01	Soil	10/06/22 13:55	10/06/22 17:14
EX05@5	2210095-02	Soil	10/06/22 14:00	10/06/22 17:14
EX06@5	2210095-03	Soil	10/06/22 14:05	10/06/22 17:14
EX07@5	2210095-04	Soil	10/06/22 14:10	10/06/22 17:14
EX08@5	2210095-05	Soil	10/06/22 14:15	10/06/22 17:14
EX09@5	2210095-06	Soil	10/06/22 14:20	10/06/22 17:14
EX10@5	2210095-07	Soil	10/06/22 14:25	10/06/22 17:14
EX11@5	2210095-08	Soil	10/06/22 13:40	10/06/22 17:14
EX12@5	2210095-09	Soil	10/06/22 13:45	10/06/22 17:14
EX13@5	2210095-10	Soil	10/06/22 13:50	10/06/22 17:14
EX17@2.5	2210095-11	Soil	10/06/22 13:25	10/06/22 17:14
2EX01@14	2210095-15	Soil	10/06/22 11:00	10/06/22 17:14
GW02	2210095-16	Water	10/06/22 13:00	10/06/22 17:14

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

2210095.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com PDC EHS

City/State/Zip:

cveryser@entradainc.com

Phone: 586 945 6355

Project Name: Merston pad

Sampler Name: Chelsea veryser

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEX N	TMBS	TPH							
1	EX04 @ 5	10/6/22	1355	3			X			X				X	X	X						
2	EX05 @ 5		1400																			
3	EX06 @ 5		1405																			
4	EX07 @ 5		1410																			
5	EX08 @ 5		1415																			
6	EX09 @ 5		1420																			
7	EX10 @ 5		1425																			
8	EX11 @ 5		1340																			
9	EX12 @ 5		1345																			
10	EX13 @ 5	V	1350	V			V			V				V	V	V						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/6/22 17:14</u>	Received by: <u>Sherr Bal</u>	Date/Time: <u>10/6/22 17:14</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u>	72 hours <u>—</u>
				24 hours <u>—</u>	Standard <u>—</u>
				48 hours <u>—</u>	
Temperature Upon Receipt: <u>24.3</u>	Corrected Temperature <u>—</u>	HNO <sub>3</sub> lot # <u>—</u>	Sample Integrity:		
IR gun correction: <u>—</u>	IR gun #: <u>—</u>		Samples Intact: <u>Yes</u>	No	

# Summit Scientific

2210095.2

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

Client: Entrada Consulting Group Project Manager: Ben Baugh  
 Address: \_\_\_\_\_ E-Mail: dbaugh@entradainc.com  
 City/State/Zip: \_\_\_\_\_ PDC EHS everyser@entradainc.com  
 Phone: 506 945 6385 Project Name: murghon pad  
 Sampler Name: cheesed veryser Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR	Boiron	Full Table	9,15-1	BTEXN	TMBS			
1	EX17@2.5	10/6/22	1325	3			X			X				X						SEE NOTES	
2	EX16@2.5		1320																HOLD		
3	EX18@2.5		1330																HOLD		
4	EX19@2.5		1335																HOLD		
5	2EX01@14		1100											X					SEE NOTES		
6	GW02		1300						X						X	X			SEE NOTES		
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/6/22 17:14</u>	Received by: <u>Shene Bala</u>	Date/Time: <u>10/6/22 17:14</u>	Turn Around Time (Check)	Notes:
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Same Day <input checked="" type="checkbox"/>	2EX01@14: same day BTEXN
				24 hours <input type="checkbox"/>	Full table on standard
				48 hours <input type="checkbox"/>	EX17 on standard
Temperature Upon Receipt: <u>24.3</u>	Corrected Temperature _____	HNO <sub>3</sub> lot # _____	Sample Integrity: <u>Yes</u> No		GW02 on standard
IR gun correction: _____	IR gun #: _____				

2210095

### Sample Receipt Checklist

S2 Work Order#

Client: Entrada Consulting Group Client Project ID: Merston Pad

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

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

Temp ( $^{\circ}\text{C}$ )	24.3
-----------------------------	------

Thermometer #	2
---------------	---

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature $< 6^{\circ}\text{C}$ ? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	✓			on ice
If custody seals are present, are they intact? <sup>(1)</sup>			✓	
Are samples due within 48 hours present?	✓			24 hour
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron ( $\text{Fe}^{2+}$ ), Hexavalent Chromium ( $\text{Cr}^{6+}$ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			✓	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	✓			
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	✓			
Were all samples received intact? <sup>(1)</sup>	✓			
Was adequate sample volume provided? <sup>(1)</sup>	✓			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	✓			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	✓			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>		✓	✓	
Are samples preserved that require preservation ( <b>excluding cooling</b> )? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, $\text{H}_2\text{SO}_4$ , NaOH, $\text{HNO}_3$ , etc.			✓	
If samples are acid preserved for metals, is the $\text{pH} \leq 2$ ? <sup>(1)</sup> Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

SB  
Custodian Printed Name

10/6/22 17:14  
Date/Time





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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX04@5**  
**2210095-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		85.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX04@5**  
**2210095-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		47.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.113</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX04@5**  
**2210095-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.44	0.231	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	55.5	0.463	"	"	"	"	"	"
Cadmium	ND	0.231	"	"	"	"	"	"
Copper	5.09	0.463	"	"	"	"	"	"
Lead	7.01	0.231	"	"	"	"	"	"
Nickel	5.66	0.463	"	"	"	"	"	"
Selenium	ND	0.301	"	"	"	"	"	"
Silver	0.126	0.0231	"	"	"	"	"	"
Zinc	23.6	0.463	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	69.2	0.0579	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	45.1	0.0579	"	"	"	"	"	"	
Sodium	61.5	0.0579	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.41	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**EX04@5**  
**2210095-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.845	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**EX05@5**  
**2210095-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX05@5**  
**2210095-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.127</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX05@5**  
**2210095-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

<b>Arsenic</b>	<b>1.60</b>	0.236	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
<b>Barium</b>	<b>74.2</b>	0.471	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
<b>Copper</b>	<b>6.49</b>	0.471	"	"	"	"	"	"
<b>Lead</b>	<b>9.67</b>	0.236	"	"	"	"	"	"
<b>Nickel</b>	<b>7.14</b>	0.471	"	"	"	"	"	"
Selenium	ND	0.306	"	"	"	"	"	"
<b>Silver</b>	<b>0.162</b>	0.0236	"	"	"	"	"	"
<b>Zinc</b>	<b>29.3</b>	0.471	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>46.6</b>	0.0589	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
<b>Magnesium</b>	<b>31.9</b>	0.0589	"	"	"	"	"	"	
<b>Sodium</b>	<b>38.6</b>	0.0589	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.07</b>	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/21/22 12:20

**EX05@5**  
**2210095-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.573	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/21/22 12:20

**EX06@5**  
**2210095-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		46.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**EX06@5**  
**2210095-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.122</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX06@5**  
**2210095-03 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.45	0.223	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	51.4	0.445	"	"	"	"	"	"
Cadmium	ND	0.223	"	"	"	"	"	"
Copper	4.48	0.445	"	"	"	"	"	"
Lead	6.60	0.223	"	"	"	"	"	"
Nickel	5.45	0.445	"	"	"	"	"	"
Selenium	ND	0.289	"	"	"	"	"	"
Silver	0.144	0.0223	"	"	"	"	"	"
Zinc	22.2	0.445	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.5	0.0557	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	33.9	0.0557	"	"	"	"	"	"	
Sodium	43.1	0.0557	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.16	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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

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

**Reported:**  
10/21/22 12:20

**EX06@5**  
**2210095-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.635	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/21/22 12:20

**EX07@5**  
**2210095-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		77.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**EX07@5**  
**2210095-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		30.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.115</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX07@5**  
**2210095-04 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.39	0.219	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	66.5	0.438	"	"	"	"	"	"
Cadmium	ND	0.219	"	"	"	"	"	"
Copper	5.58	0.438	"	"	"	"	"	"
Lead	8.16	0.219	"	"	"	"	"	"
Nickel	6.14	0.438	"	"	"	"	"	"
Selenium	ND	0.284	"	"	"	"	"	"
Silver	0.137	0.0219	"	"	"	"	"	"
Zinc	25.3	0.438	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/06/22 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/06/22 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	98.4	0.0547	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	72.1	0.0547	"	"	"	"	"	"	
Sodium	111	0.0547	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/06/22 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.07	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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

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

**Reported:**  
10/21/22 12:20

**EX07@5**  
**2210095-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.4		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/21/22 12:20

**EX08@5**  
**2210095-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		83.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**EX08@5**  
**2210095-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.119</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX08@5**  
**2210095-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.58	0.243	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	67.8	0.485	"	"	"	"	"	"
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	6.27	0.485	"	"	"	"	"	"
Lead	8.61	0.243	"	"	"	"	"	"
Nickel	6.73	0.485	"	"	"	"	"	"
Selenium	ND	0.315	"	"	"	"	"	"
Silver	0.179	0.0243	"	"	"	"	"	"
Zinc	27.6	0.485	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.1	0.0606	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	36.5	0.0606	"	"	"	"	"	"	
Sodium	62.8	0.0606	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.58	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/21/22 12:20

**EX08@5**  
**2210095-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.723	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/21/22 12:20

**EX09@5**  
**2210095-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		82.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX09@5**  
**2210095-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.210</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX09@5**  
**2210095-06 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.75	0.243	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	74.6	0.485	"	"	"	"	"	"
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	7.42	0.485	"	"	"	"	"	"
Lead	9.90	0.243	"	"	"	"	"	"
Nickel	7.49	0.485	"	"	"	"	"	"
Selenium	ND	0.315	"	"	"	"	"	"
Silver	0.153	0.0243	"	"	"	"	"	"
Zinc	31.7	0.485	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/06/22 14:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/06/22 14:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.1	0.0606	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	25.0	0.0606	"	"	"	"	"	"	
Sodium	74.3	0.0606	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/06/22 14:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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

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

**Reported:**  
10/21/22 12:20

**EX09@5**  
**2210095-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.677	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/21/22 12:20

**EX10@5**  
**2210095-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX10@5**  
**2210095-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.117</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX10@5**  
**2210095-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.57	0.232	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	51.6	0.464	"	"	"	"	"	"
Cadmium	ND	0.232	"	"	"	"	"	"
Copper	5.50	0.464	"	"	"	"	"	"
Lead	7.01	0.232	"	"	"	"	"	"
Nickel	5.76	0.464	"	"	"	"	"	"
Selenium	ND	0.302	"	"	"	"	"	"
Silver	0.125	0.0232	"	"	"	"	"	"
Zinc	24.8	0.464	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.6	0.0580	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	38.3	0.0580	"	"	"	"	"	"	
Sodium	104	0.0580	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.57	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/21/22 12:20

**EX10@5**  
**2210095-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.900	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/21/22 12:20

**EX11@5**  
**2210095-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		80.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/21/22 12:20

**EX11@5**  
**2210095-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**EX11@5**  
**2210095-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.90	0.245	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	85.9	0.491	"	"	"	"	"	"
Cadmium	ND	0.245	"	"	"	"	"	"
Copper	7.23	0.491	"	"	"	"	"	"
Lead	10.6	0.245	"	"	"	"	"	"
Nickel	7.80	0.491	"	"	"	"	"	"
Selenium	ND	0.319	"	"	"	"	"	"
Silver	0.183	0.0245	"	"	"	"	"	"
Zinc	30.4	0.491	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.8	0.0614	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	28.8	0.0614	"	"	"	"	"	"	
Sodium	58.8	0.0614	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.69	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/21/22 12:20

**EX11@5**  
**2210095-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.5		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.547	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

**Reported:**  
10/21/22 12:20

**EX12@5**  
**2210095-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		85.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX12@5**  
**2210095-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0946</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**EX12@5**  
**2210095-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.63	0.237	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	58.3	0.474	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	5.71	0.474	"	"	"	"	"	"
Lead	8.37	0.237	"	"	"	"	"	"
Nickel	6.33	0.474	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"
Silver	0.140	0.0237	"	"	"	"	"	"
Zinc	26.5	0.474	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.5	0.0592	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	21.4	0.0592	"	"	"	"	"	"	
Sodium	16.7	0.0592	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.554	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/21/22 12:20

**EX12@5**  
**2210095-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.333	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction. CO, 81501

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

**Reported:**  
10/21/22 12:20

**EX13@5**  
**2210095-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		86.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**EX13@5**  
**2210095-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.123</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX13@5**  
**2210095-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.72	0.237	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	99.2	0.473	"	"	"	"	"	"
Cadmium	0.252	0.237	"	"	"	"	"	"
Copper	7.68	0.473	"	"	"	"	"	"
Lead	10.3	0.237	"	"	"	"	"	"
Nickel	7.93	0.473	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"
Silver	0.145	0.0237	"	"	"	"	"	"
Zinc	31.8	0.473	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0521	10/20/22	10/20/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.7	0.0591	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	30.5	0.0591	"	"	"	"	"	"	
Sodium	56.4	0.0591	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.53	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**EX13@5**  
**2210095-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	84.6	%	1	BFJ0361	10/14/22	10/14/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.628	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**EX17@2.5**  
**2210095-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.222	0.0100	mg/L	1	BFJ0236	10/10/22	10/11/22	EPA 6020B	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/06/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.4	0.0569	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	6.82	0.0569	"	"	"	"	"	"	
Sodium	108	0.0569	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/06/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.99	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.503	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**EX17@2.5**  
**2210095-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.93</b>			pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**2EX01@14**  
**2210095-15 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0152	10/06/22	10/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**2EX01@14**  
**2210095-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0154	10/07/22	10/08/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.60</b>	0.0100	mg/L	1	BFJ0236	10/10/22	10/11/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**2EX01@14**  
**2210095-15 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	3.06	0.244	mg/kg dry	1	BFJ0163	10/07/22	10/09/22	EPA 6020B
Barium	58.2	0.489	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	4.77	0.489	"	"	"	"	"	"
Lead	4.15	0.244	"	"	"	"	"	"
Nickel	6.29	0.489	"	"	"	"	"	"
Selenium	0.493	0.318	"	"	"	"	"	"
Silver	ND	0.0244	"	"	"	"	"	"
Zinc	21.0	0.489	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0311	10/12/22	10/13/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.7	0.0611	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	4.66	0.0611	"	"	"	"	"	"	
Sodium	400	0.0611	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	25.7	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**2EX01@14**  
**2210095-15 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BFJ0239	10/10/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.36	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/06/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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Grand Junction, CO, 81501

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

**Reported:**  
10/21/22 12:20

**GW02**  
**2210095-16 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/06/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0181	10/07/22	10/09/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/06/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		86.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	21-167		"	"	"	"	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0151 - EPA 5030 Soil MS

##### Blank (BFJ0151-BLK1)

Prepared & Analyzed: 10/06/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.4	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0419		"	0.0400		105	50-150			

##### LCS (BFJ0151-BS1)

Prepared: 10/06/22 Analyzed: 10/07/22

Benzene	0.0946	0.0020	mg/kg	0.100		94.6	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.243	0.010	"	0.200		121	70-130			
o-Xylene	0.0992	0.0050	"	0.100		99.2	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

##### Matrix Spike (BFJ0151-MS1)

Source: 2210095-01

Prepared: 10/06/22 Analyzed: 10/07/22

Benzene	0.0927	0.0020	mg/kg	0.100	ND	92.7	70-130			
Toluene	0.105	0.0050	"	0.100	ND	105	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.239	0.010	"	0.200	ND	119	70-130			
o-Xylene	0.0964	0.0050	"	0.100	ND	96.4	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
Naphthalene	0.0904	0.0038	"	0.100	ND	90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	50-150			

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

**Reported:**  
10/21/22 12:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0151 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0151-MSD1)		Source: 2210095-01		Prepared: 10/06/22 Analyzed: 10/07/22						
Benzene	0.0936	0.0020	mg/kg	0.100	ND	93.6	70-130	0.999	30	
Toluene	0.106	0.0050	"	0.100	ND	106	70-130	1.45	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	0.115	30	
m,p-Xylene	0.241	0.010	"	0.200	ND	120	70-130	0.851	30	
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0	70-130	1.41	30	
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	1.69	30	
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	0.731	30	
Naphthalene	0.0940	0.0038	"	0.100	ND	94.0	70-130	3.97	30	
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

**Batch BFJ0181 - EPA 5030 Water MS**

Blank (BFJ0181-BLK1)		Prepared: 10/07/22 Analyzed: 10/09/22								
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	5.57		"	13.3		41.8	23-173			
Surrogate: Toluene-d8	13.9		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	21-167			

LCS (BFJ0181-BS1)		Prepared: 10/07/22 Analyzed: 10/09/22								
Benzene	30.9	1.0	ug/l	41.7		74.1	51-132			
Toluene	37.4	1.0	"	41.7		89.9	51-138			
Ethylbenzene	40.2	1.0	"	41.7		96.5	58-146			
m,p-Xylene	81.0	2.0	"	83.3		97.2	57-144			
o-Xylene	40.4	1.0	"	41.7		96.8	53-146			
Naphthalene	32.2	1.0	"	41.7		77.3	70-130			
1,2,4-Trimethylbenzene	40.7	1.0	"	41.7		97.8	70-130			
1,3,5-Trimethylbenzene	42.4	1.0	"	41.7		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.0	23-173			
Surrogate: Toluene-d8	14.1		"	13.3		106	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.6	21-167			

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0181 - EPA 5030 Water MS**

Matrix Spike (BFJ0181-MS1)		Source: 2210101-01			Prepared: 10/07/22		Analyzed: 10/09/22	
Benzene	30.4	1.0	ug/l	41.7	ND	72.9	34-141	
Toluene	37.1	1.0	"	41.7	ND	89.1	27-151	
Ethylbenzene	40.7	1.0	"	41.7	ND	97.8	29-160	
m,p-Xylene	80.6	2.0	"	83.3	ND	96.8	20-166	
o-Xylene	40.8	1.0	"	41.7	ND	97.9	33-159	
Naphthalene	41.5	1.0	"	41.7	ND	99.6	70-130	
1,2,4-Trimethylbenzene	42.5	1.0	"	41.7	ND	102	70-130	
1,3,5-Trimethylbenzene	43.4	1.0	"	41.7	ND	104	70-130	
Surrogate: 1,2-Dichloroethane-d4		12.9	"	13.3		96.8	23-173	
Surrogate: Toluene-d8		13.7	"	13.3		103	20-170	
Surrogate: 4-Bromofluorobenzene		13.0	"	13.3		97.6	21-167	

Matrix Spike Dup (BFJ0181-MSD1)		Source: 2210101-01			Prepared: 10/07/22		Analyzed: 10/09/22	
Benzene	30.6	1.0	ug/l	41.7	ND	73.5	34-141	0.820 30
Toluene	37.2	1.0	"	41.7	ND	89.4	27-151	0.296 30
Ethylbenzene	40.8	1.0	"	41.7	ND	98.0	29-160	0.221 30
m,p-Xylene	80.8	2.0	"	83.3	ND	97.0	20-166	0.248 30
o-Xylene	40.6	1.0	"	41.7	ND	97.5	33-159	0.393 30
Naphthalene	43.2	1.0	"	41.7	ND	104	70-130	3.97 30
1,2,4-Trimethylbenzene	42.5	1.0	"	41.7	ND	102	70-130	0.0470 30
1,3,5-Trimethylbenzene	43.5	1.0	"	41.7	ND	104	70-130	0.207 30
Surrogate: 1,2-Dichloroethane-d4		13.4	"	13.3		100	23-173	
Surrogate: Toluene-d8		14.0	"	13.3		105	20-170	
Surrogate: 4-Bromofluorobenzene		12.8	"	13.3		96.2	21-167	

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0152 - EPA 3550A**

**Blank (BFJ0152-BLK1)**

Prepared: 10/06/22 Analyzed: 10/07/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0152-BS1)**

Prepared: 10/06/22 Analyzed: 10/07/22

C10-C28 (DRO)	558	50	mg/kg	500	112	70-130
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**Matrix Spike (BFJ0152-MS1)**

Source: 2210095-01

Prepared: 10/06/22 Analyzed: 10/07/22

C10-C28 (DRO)	597	50	mg/kg	500	39.5	111	70-130
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**Matrix Spike Dup (BFJ0152-MSD1)**

Source: 2210095-01

Prepared: 10/06/22 Analyzed: 10/07/22

C10-C28 (DRO)	529	50	mg/kg	500	39.5	97.9	70-130	12.1	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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0154 - EPA 5030 Soil MS

##### Blank (BFJ0154-BLK1)

Prepared & Analyzed: 10/07/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0421		"	0.0333		126	40-150			
Surrogate: Fluoranthene-d10	0.0276		"	0.0333		82.7	40-150			

##### LCS (BFJ0154-BS1)

Prepared & Analyzed: 10/07/22

Acenaphthene	0.0383	0.00500	mg/kg	0.0333		115	31-137			
Anthracene	0.0390	0.00500	"	0.0333		117	30-120			
Benzo (a) anthracene	0.0356	0.00500	"	0.0333		107	30-120			
Benzo (a) pyrene	0.0372	0.00500	"	0.0333		112	30-120			
Benzo (b) fluoranthene	0.0279	0.00500	"	0.0333		83.7	30-120			
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333		84.7	30-120			
Chrysene	0.0347	0.00500	"	0.0333		104	30-120			
Dibenz (a,h) anthracene	0.0371	0.00500	"	0.0333		111	30-120			
Fluoranthene	0.0357	0.00500	"	0.0333		107	30-120			
Fluorene	0.0346	0.00500	"	0.0333		104	30-120			
Indeno (1,2,3-cd) pyrene	0.0301	0.00500	"	0.0333		90.3	30-120			
Pyrene	0.0393	0.00500	"	0.0333		118	35-142			
1-Methylnaphthalene	0.0383	0.00500	"	0.0333		115	35-142			
2-Methylnaphthalene	0.0450	0.00500	"	0.0333		135	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0396		"	0.0333		119	40-150			
Surrogate: Fluoranthene-d10	0.0371		"	0.0333		111	40-150			

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0154 - EPA 5030 Soil MS

Matrix Spike (BFJ0154-MS1)			Source: 2210018-01		Prepared & Analyzed: 10/07/22					
Acenaphthene	0.0174	0.00500	mg/kg	0.0333	ND	52.2	31-137			
Anthracene	0.0206	0.00500	"	0.0333	ND	61.9	30-120			
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120			
Benzo (a) pyrene	0.0243	0.00500	"	0.0333	0.0120	36.7	30-120			
Benzo (b) fluoranthene	0.0252	0.00500	"	0.0333	0.00398	63.5	30-120			
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.7	30-120			
Chrysene	0.0196	0.00500	"	0.0333	ND	58.8	30-120			
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	30-120			
Fluoranthene	0.0206	0.00500	"	0.0333	0.00670	41.7	30-120			
Fluorene	0.0158	0.00500	"	0.0333	ND	47.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0248	0.00500	"	0.0333	ND	74.3	30-120			
Pyrene	0.0199	0.00500	"	0.0333	0.0193	1.78	35-142			QM-07
1-Methylnaphthalene	0.0202	0.00500	"	0.0333	0.522	NR	15-130			QM-07
2-Methylnaphthalene	0.0212	0.00500	"	0.0333	0.755	NR	15-130			QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0213		"	0.0333		63.8	40-150			
Surrogate: Fluoranthene-d10	0.0214		"	0.0333		64.2	40-150			

Matrix Spike Dup (BFJ0154-MSD1)			Source: 2210018-01		Prepared & Analyzed: 10/07/22					
Acenaphthene	0.0205	0.00500	mg/kg	0.0333	ND	61.5	31-137	16.5	30	
Anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120	13.3	30	
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.4	30-120	8.04	30	
Benzo (a) pyrene	0.0236	0.00500	"	0.0333	0.0120	34.7	30-120	2.79	30	
Benzo (b) fluoranthene	0.0268	0.00500	"	0.0333	0.00398	68.6	30-120	6.49	30	
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333	ND	79.8	30-120	9.28	30	
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	8.97	30	
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333	ND	72.4	30-120	11.1	30	
Fluoranthene	0.0246	0.00500	"	0.0333	0.00670	53.6	30-120	17.5	30	
Fluorene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	1.31	30	
Indeno (1,2,3-cd) pyrene	0.0283	0.00500	"	0.0333	ND	85.0	30-120	13.5	30	
Pyrene	0.0237	0.00500	"	0.0333	0.0193	13.3	35-142	17.6	30	QM-07
1-Methylnaphthalene	0.0218	0.00500	"	0.0333	0.522	NR	15-130	200	50	QM-07
2-Methylnaphthalene	0.0223	0.00500	"	0.0333	0.755	NR	15-130	200	50	QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0191		"	0.0333		57.2	40-150			
Surrogate: Fluoranthene-d10	0.0254		"	0.0333		76.2	40-150			

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0346 - EPA 5030 Soil MS

##### Blank (BFJ0346-BLK1)

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0192		"	0.0333		57.6	40-150			
Surrogate: Fluoranthene-d10	0.0362		"	0.0333		109	40-150			

##### LCS (BFJ0346-BS1)

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0325	0.00500	mg/kg	0.0333		97.5	31-137			
Anthracene	0.0292	0.00500	"	0.0333		87.5	30-120			
Benzo (a) anthracene	0.0237	0.00500	"	0.0333		71.0	30-120			
Benzo (a) pyrene	0.0237	0.00500	"	0.0333		71.2	30-120			
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333		82.8	30-120			
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Chrysene	0.0286	0.00500	"	0.0333		85.9	30-120			
Dibenz (a,h) anthracene	0.0185	0.00500	"	0.0333		55.5	30-120			
Fluoranthene	0.0314	0.00500	"	0.0333		94.3	30-120			
Fluorene	0.0327	0.00500	"	0.0333		98.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333		81.1	30-120			
Pyrene	0.0304	0.00500	"	0.0333		91.2	35-142			
1-Methylnaphthalene	0.0163	0.00500	"	0.0333		48.8	35-142			
2-Methylnaphthalene	0.0168	0.00500	"	0.0333		50.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0331		"	0.0333		99.3	40-150			
Surrogate: Fluoranthene-d10	0.0273		"	0.0333		82.0	40-150			

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0346 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0346-MS1)

Source: 2210095-01

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.3	31-137		
Anthracene	0.0139	0.00500	"	0.0333	ND	41.7	30-120		
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120		
Benzo (a) pyrene	0.0143	0.00500	"	0.0333	ND	42.8	30-120		
Benzo (b) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	30-120		
Benzo (k) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120		
Chrysene	0.0152	0.00500	"	0.0333	ND	45.7	30-120		
Dibenz (a,h) anthracene	0.0228	0.00500	"	0.0333	ND	68.5	30-120		
Fluoranthene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Fluorene	0.0180	0.00500	"	0.0333	ND	53.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0131	0.00500	"	0.0333	ND	39.4	30-120		
Pyrene	0.0137	0.00500	"	0.0333	ND	41.0	35-142		
1-Methylnaphthalene	0.00685	0.00500	"	0.0333	ND	20.5	15-130		
2-Methylnaphthalene	0.0120	0.00500	"	0.0333	ND	35.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0204		"	0.0333		61.3	40-150		
Surrogate: Fluoranthene-d10	0.0172		"	0.0333		51.7	40-150		

##### Matrix Spike Dup (BFJ0346-MSD1)

Source: 2210095-01

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.5	31-137	5.17	30
Anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	20.6	30
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	2.45	30
Benzo (a) pyrene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	3.66	30
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	11.6	30
Benzo (k) fluoranthene	0.0131	0.00500	"	0.0333	ND	39.4	30-120	11.2	30
Chrysene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	2.92	30
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	1.88	30
Fluoranthene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	2.69	30
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	5.62	30
Indeno (1,2,3-cd) pyrene	0.0131	0.00500	"	0.0333	ND	39.2	30-120	0.303	30
Pyrene	0.0157	0.00500	"	0.0333	ND	47.1	35-142	13.7	30
1-Methylnaphthalene	0.00848	0.00500	"	0.0333	ND	25.4	15-130	21.3	50
2-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.4	15-130	21.3	50
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.8	40-150		
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150		

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0236 - EPA 3050B**

**Blank (BFJ0236-BLK1)**

Prepared: 10/10/22 Analyzed: 10/11/22

Boron ND 0.0100 mg/L

**LCS (BFJ0236-BS1)**

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 5.78 0.0100 mg/L 5.00 116 80-120

**Duplicate (BFJ0236-DUP1)**

**Source: 2210036-12**

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 0.412 0.0100 mg/L 0.428 3.94 20

**Matrix Spike (BFJ0236-MS1)**

**Source: 2210036-12**

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 5.87 0.0100 mg/L 5.00 0.428 109 75-125

**Matrix Spike Dup (BFJ0236-MSD1)**

**Source: 2210036-12**

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 5.92 0.0100 mg/L 5.00 0.428 110 75-125 0.823 25

**Batch BFJ0351 - EPA 3050B**

**Blank (BFJ0351-BLK1)**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron ND 0.0100 mg/L

**LCS (BFJ0351-BS1)**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.63 0.0100 mg/L 5.00 113 80-120

**Duplicate (BFJ0351-DUP1)**

**Source: 2210095-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 0.108 0.0100 mg/L 0.113 4.30 20

**Matrix Spike (BFJ0351-MS1)**

**Source: 2210095-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.62 0.0100 mg/L 5.00 0.113 110 75-125

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]

Project Manager: Ben Baugh

**Reported:**

10/21/22 12:20

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0351 - EPA 3050B**

Matrix Spike Dup (BFJ0351-MSD1)			Source: 2210095-01		Prepared: 10/14/22 Analyzed: 10/15/22					
Boron	5.63	0.0100	mg/L	5.00	0.113	110	75-125	0.319	25	

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0163 - EPA 3050B**

**Blank (BFJ0163-BLK1)**

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0163-BS1)**

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	42.0	0.200	mg/kg wet	40.0	105	80-120
Barium	40.9	0.400	"	40.0	102	80-120
Cadmium	2.01	0.200	"	2.00	101	80-120
Copper	40.4	0.400	"	40.0	101	80-120
Lead	18.7	0.200	"	20.0	93.5	80-120
Nickel	40.6	0.400	"	40.0	102	80-120
Selenium	4.13	0.260	"	4.00	103	80-120
Silver	1.98	0.0200	"	2.00	99.0	80-120
Zinc	41.8	0.400	"	40.0	104	80-120

**Duplicate (BFJ0163-DUP1)**

Source: 2210001-01

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	1.77	0.213	mg/kg dry	1.74	1.76	20
Barium	57.3	0.426	"	64.0	11.1	20
Cadmium	0.0708	0.213	"	0.0800	12.1	20
Copper	3.44	0.426	"	3.42	0.388	20
Lead	3.44	0.213	"	3.87	11.6	20
Nickel	4.28	0.426	"	4.28	0.173	20
Selenium	0.537	0.277	"	0.557	3.60	20
Silver	0.0163	0.0213	"	0.0180	10.1	20
Zinc	15.9	0.426	"	16.2	1.59	20

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0163 - EPA 3050B**

**Matrix Spike (BFJ0163-MS1)**

Source: 2210001-01

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	46.0	0.213	mg/kg dry	42.6	1.74	104	75-125
Barium	102	0.426	"	42.6	64.0	89.7	75-125
Cadmium	2.35	0.213	"	2.13	0.0800	107	75-125
Copper	45.1	0.426	"	42.6	3.42	97.9	75-125
Lead	23.0	0.213	"	21.3	3.87	89.9	75-125
Nickel	46.5	0.426	"	42.6	4.28	99.2	75-125
Selenium	4.68	0.277	"	4.26	0.557	96.8	75-125
Silver	2.19	0.0213	"	2.13	0.0180	102	75-125
Zinc	57.7	0.426	"	42.6	16.2	97.5	75-125

**Matrix Spike Dup (BFJ0163-MSD1)**

Source: 2210001-01

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	45.9	0.213	mg/kg dry	42.6	1.74	104	75-125	0.245	25
Barium	105	0.426	"	42.6	64.0	95.5	75-125	2.40	25
Cadmium	2.39	0.213	"	2.13	0.0800	108	75-125	1.77	25
Copper	45.2	0.426	"	42.6	3.42	98.1	75-125	0.160	25
Lead	23.4	0.213	"	21.3	3.87	91.9	75-125	1.79	25
Nickel	46.6	0.426	"	42.6	4.28	99.5	75-125	0.314	25
Selenium	4.88	0.277	"	4.26	0.557	102	75-125	4.31	25
Silver	2.25	0.0213	"	2.13	0.0180	105	75-125	2.41	25
Zinc	57.6	0.426	"	42.6	16.2	97.2	75-125	0.217	25

**Batch BFJ0347 - EPA 3050B**

**Blank (BFJ0347-BLK1)**

Prepared & Analyzed: 10/14/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0347 - EPA 3050B**

**LCS (BFJ0347-BS1)**

Prepared & Analyzed: 10/14/22

Arsenic	41.6	0.200	mg/kg wet	40.0		104	80-120
Barium	37.6	0.400	"	40.0		94.1	80-120
Cadmium	2.00	0.200	"	2.00		100	80-120
Copper	34.9	0.400	"	40.0		87.3	80-120
Lead	23.2	0.200	"	20.0		116	80-120
Nickel	39.3	0.400	"	40.0		98.1	80-120
Selenium	3.60	0.260	"	4.00		90.0	80-120
Silver	1.72	0.0200	"	2.00		85.9	80-120
Zinc	42.1	0.400	"	40.0		105	80-120

**Duplicate (BFJ0347-DUP1)**

Source: 2210095-01

Prepared & Analyzed: 10/14/22

Arsenic	1.45	0.231	mg/kg dry		1.44		0.320	20
Barium	55.7	0.463	"		55.5		0.337	20
Cadmium	0.157	0.231	"		0.151		4.20	20
Copper	5.18	0.463	"		5.09		1.71	20
Lead	6.94	0.231	"		7.01		1.07	20
Nickel	5.78	0.463	"		5.66		2.03	20
Selenium	ND	0.301	"		ND			20
Silver	0.113	0.0231	"		0.126		10.8	20
Zinc	24.0	0.463	"		23.6		1.74	20

**Matrix Spike (BFJ0347-MS1)**

Source: 2210095-01

Prepared & Analyzed: 10/14/22

Arsenic	43.2	0.231	mg/kg dry	46.3	1.44	90.2	75-125
Barium	108	0.463	"	46.3	55.5	113	75-125
Cadmium	2.96	0.231	"	2.31	0.151	121	75-125
Copper	52.0	0.463	"	46.3	5.09	101	75-125
Lead	35.9	0.231	"	23.1	7.01	125	75-125
Nickel	52.8	0.463	"	46.3	5.66	102	75-125
Selenium	3.82	0.301	"	4.63	ND	82.6	75-125
Silver	2.47	0.0231	"	2.31	0.126	101	75-125
Zinc	73.4	0.463	"	46.3	23.6	108	75-125

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0347 - EPA 3050B**

Matrix Spike Dup (BFJ0347-MSD1)		Source: 2210095-01			Prepared & Analyzed: 10/14/22					
Arsenic	43.2	0.231	mg/kg dry	46.3	1.44	90.1	75-125	0.0418	25	
Barium	107	0.463	"	46.3	55.5	112	75-125	0.481	25	
Cadmium	2.95	0.231	"	2.31	0.151	121	75-125	0.110	25	
Copper	51.8	0.463	"	46.3	5.09	101	75-125	0.292	25	
Lead	35.8	0.231	"	23.1	7.01	124	75-125	0.468	25	
Nickel	52.7	0.463	"	46.3	5.66	102	75-125	0.291	25	
Selenium	3.84	0.301	"	4.63	ND	82.9	75-125	0.423	25	
Silver	2.48	0.0231	"	2.31	0.126	102	75-125	0.486	25	
Zinc	72.8	0.463	"	46.3	23.6	106	75-125	0.942	25	

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0311 - 3060A Mod**

<b>Blank (BFJ0311-BLK1)</b>					Prepared: 10/12/22 Analyzed: 10/13/22					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BFJ0311-BS1)</b>					Prepared: 10/12/22 Analyzed: 10/13/22					
Chromium, Hexavalent	21.8	0.30	mg/kg wet	25.0		87.0	80-120			
<b>Duplicate (BFJ0311-DUP1)</b>					Source: 2210089-01 Prepared: 10/12/22 Analyzed: 10/13/22					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BFJ0311-MS1)</b>					Source: 2210089-01 Prepared: 10/12/22 Analyzed: 10/13/22					
Chromium, Hexavalent	27.4	0.30	mg/kg dry	26.6	ND	103	75-125			
<b>Matrix Spike Dup (BFJ0311-MSD1)</b>					Source: 2210089-01 Prepared: 10/12/22 Analyzed: 10/13/22					
Chromium, Hexavalent	24.9	0.30	mg/kg dry	26.6	ND	93.6	75-125	9.37	20	

**Batch BFJ0521 - 3060A Mod**

<b>Blank (BFJ0521-BLK1)</b>					Prepared & Analyzed: 10/20/22					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BFJ0521-BS1)</b>					Prepared & Analyzed: 10/20/22					
Chromium, Hexavalent	23.3	0.30	mg/kg wet	25.0		93.2	80-120			
<b>Duplicate (BFJ0521-DUP1)</b>					Source: 2210095-01 Prepared & Analyzed: 10/20/22					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BFJ0521-MS1)</b>					Source: 2210095-01 Prepared & Analyzed: 10/20/22					
Chromium, Hexavalent	30.1	0.30	mg/kg dry	28.9	ND	104	75-125			

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0521 - 3060A Mod**

**Matrix Spike Dup (BFJ0521-MSD1)**

**Source: 2210095-01**

Prepared & Analyzed: 10/20/22

Chromium, Hexavalent	31.7	0.30	mg/kg dry	28.9	ND	110	75-125	5.05	20
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0243 - General Preparation**

**Blank (BFJ0243-BLK1)**

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0243-BS1)**

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	5.12	0.0500	mg/L wet	5.00	102	70-130
Magnesium	6.13	0.0500	"	5.00	123	70-130
Sodium	5.65	0.0500	"	5.00	113	70-130

**Batch BFJ0495 - General Preparation**

**Blank (BFJ0495-BLK1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0495-BS1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.38	0.0500	"	5.00	108	70-130
Sodium	5.03	0.0500	"	5.00	101	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

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

**Summit Scientific**

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

**Batch BFJ0239 - General Preparation**

<b>Duplicate (BFJ0239-DUP1)</b>		<b>Source: 2210065-01</b>			Prepared: 10/10/22 Analyzed: 10/14/22						
% Solids	84.5		%		85.2			0.876		20	

**Batch BFJ0361 - General Preparation**

<b>Duplicate (BFJ0361-DUP1)</b>		<b>Source: 2209455-01</b>			Prepared & Analyzed: 10/14/22						
% Solids	89.7		%		90.7			1.13		20	

Summit Scientific

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

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

**Reported:**  
10/21/22 12:20

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0262 - General Preparation**

**Blank (BFJ0262-BLK1)**

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0262-BS1)**

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BFJ0262-DUP1)**

**Source: 2210065-01**

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.822 0.0100 mmhos/cm 0.808 1.68 20

**Batch BFJ0526 - General Preparation**

**Blank (BFJ0526-BLK1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0526-BS1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BFJ0526-DUP1)**

**Source: 2210095-01**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.837 0.0100 mmhos/cm 0.845 0.892 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0261 - General Preparation**

**LCS (BFJ0261-BS1)**

Prepared: 10/11/22 Analyzed: 10/14/22

pH	8.98		pH Units	9.18		97.8	95-105		
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**Duplicate (BFJ0261-DUP1)**

**Source: 2210065-01**

Prepared: 10/11/22 Analyzed: 10/14/22

pH	7.66		pH Units		7.68			0.261	20
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**Batch BFJ0527 - General Preparation**

**LCS (BFJ0527-BS1)**

Prepared & Analyzed: 10/20/22

pH	8.96		pH Units	9.18		97.6	95-105		
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**Duplicate (BFJ0527-DUP1)**

**Source: 2210095-01**

Prepared & Analyzed: 10/20/22

pH	7.73		pH Units		7.73			0.00	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:20

### Notes and Definitions

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, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210136

Enclosed are the results of analyses for samples received by Summit Scientific on 10/10/22 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2EX03@12	2210136-01	Soil	10/10/22 10:00	10/10/22 15:30
2EX03@6	2210136-02	Soil	10/10/22 10:05	10/10/22 15:30
2EX04@14	2210136-03	Soil	10/10/22 10:10	10/10/22 15:30
2EX05@12	2210136-04	Soil	10/10/22 11:05	10/10/22 15:30
2EX05@6	2210136-05	Soil	10/10/22 11:10	10/10/22 15:30
2EX06@12	2210136-06	Soil	10/10/22 12:00	10/10/22 15:30
2EX06@6	2210136-07	Soil	10/10/22 12:05	10/10/22 15:30
2EX02@14	2210136-08	Soil	10/07/22 11:00	10/10/22 15:30

Summit Scientific

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# Summit Scientific

2210136

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Entrada Consulting Group

Project Manager: Bern Baugh

Address:

E-Mail: bbaugh@entradainc.com

POC EHS

City/State/Zip:

cveryser@entradainc.com

Phone: 506 945 6355

Project Name: Merchon pad

Sampler Name: Chelsea Veyser

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1								
1	2EX03 @ 12	10/10/22	1000	3			X			X										SEE NOTES	
2	2EX03 @ 6		1005				X			X											
3	2EX04 @ 14		1010																		
4	2EX05 @ 12		1105																		
5	2EX05 @ 6		1110																		
6	2EX06 @ 12		1200																		
7	2EX06 @ 6		1205																		
8	2EX02 @ 14	10/7/22	1100																		
9																					
10																					

Relinquished by: [Signature] Date/Time: 10/10/22 1530

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Temperature Upon Receipt: 11.6

IR gun correction: 0

Received by: [Signature] Date/Time: 10/10/22 1530

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Corrected Temperature 0

IR gun #: 1

HNO<sub>3</sub> lot # \_\_\_\_\_

Turn Around Time (Check)

Same Day \_\_\_\_\_ 72 hours \_\_\_\_\_

24 hours \_\_\_\_\_ Standard X

48 hours \_\_\_\_\_

Sample Integrity:

Samples Intact: Yes No

Notes:

Full table on standard BTEXN, TMBs, TPH on same day



## Sample Receipt Checklist

S2 Work Order# 2210136

Client: Entrada Client Project ID: PDC Mershon PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.9 Thermometer # 

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> ? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):   				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Melissa Sherman  
Custodian Printed Name

10/10/22  
Date/Time



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX03@12**  
**2210136-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0571	143 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	83.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX03@12**  
**2210136-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	42.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0668</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX03@12**  
**2210136-01 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	2.61	0.216	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	37.1	0.433	"	"	"	"	"	"
Cadmium	0.228	0.216	"	"	"	"	"	"
Copper	5.93	0.433	"	"	"	"	"	"
Lead	6.63	0.216	"	"	"	"	"	"
Nickel	6.21	0.433	"	"	"	"	"	"
Selenium	ND	0.281	"	"	"	"	"	"
Silver	0.0338	0.0216	"	"	"	"	"	"
Zinc	21.6	0.433	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/10/22 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/10/22 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.9	0.0541	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	31.9	0.0541	"	"	"	"	"	"	
Sodium	64.7	0.0541	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/10/22 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.78	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/10/22 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:56

**2EX03@12**  
**2210136-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	92.4	%	1	BFJ0325	10/13/22	10/13/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.709	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/10/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

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

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

**Reported:**  
10/17/22 08:56

**2EX03@6**  
**2210136-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0597	149 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0428	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:56

**2EX03@6**  
**2210136-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0159	47.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.153</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX03@6**  
**2210136-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.69	0.248	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	114	0.497	"	"	"	"	"	"
Cadmium	ND	0.248	"	"	"	"	"	"
Copper	7.84	0.497	"	"	"	"	"	"
Lead	11.8	0.248	"	"	"	"	"	"
Nickel	8.05	0.497	"	"	"	"	"	"
Selenium	ND	0.323	"	"	"	"	"	"
Silver	0.0686	0.0248	"	"	"	"	"	"
Zinc	35.1	0.497	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.4	0.0621	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	36.6	0.0621	"	"	"	"	"	"	
Sodium	94.8	0.0621	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.40	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:56

**2EX03@6**  
**2210136-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5		%	1	BFJ0325	10/13/22	10/13/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.789	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/10/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/17/22 08:56

**2EX04@14**  
**2210136-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0557	139 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0433	108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.90	79.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/17/22 08:56

**2EX04@14**  
**2210136-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0141	42.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0252	75.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0831</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX04@14**  
**2210136-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.41	0.235	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	20.5	0.471	"	"	"	"	"	"
Cadmium	ND	0.235	"	"	"	"	"	"
Copper	3.66	0.471	"	"	"	"	"	"
Lead	4.33	0.235	"	"	"	"	"	"
Nickel	4.25	0.471	"	"	"	"	"	"
Selenium	ND	0.306	"	"	"	"	"	"
Silver	ND	0.0235	"	"	"	"	"	"
Zinc	15.5	0.471	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.7	0.0588	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	10.5	0.0588	"	"	"	"	"	"	
Sodium	105	0.0588	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.67	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:56

**2EX04@14**  
**2210136-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BFJ0325	10/13/22	10/13/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.638	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/10/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

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Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:56

**2EX05@12**  
**2210136-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0525	131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.7	101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX05@12**  
**2210136-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0265	79.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0364</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX05@12**  
**2210136-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.54	0.217	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	31.1	0.433	"	"	"	"	"	"
Cadmium	ND	0.217	"	"	"	"	"	"
Copper	3.65	0.433	"	"	"	"	"	"
Lead	4.38	0.217	"	"	"	"	"	"
Nickel	3.69	0.433	"	"	"	"	"	"
Selenium	ND	0.282	"	"	"	"	"	"
Silver	ND	0.0217	"	"	"	"	"	"
Zinc	13.9	0.433	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	213	0.0541	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	82.7	0.0541	"	"	"	"	"	"	
Sodium	71.4	0.0541	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.05	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

**Reported:**  
10/17/22 08:56

**2EX05@12**  
**2210136-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BFJ0325	10/13/22	10/13/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.70	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/10/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

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

**Reported:**  
10/17/22 08:56

**2EX05@6**  
**2210136-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0584	146 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.3	98.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

**Reported:**  
10/17/22 08:56

**2EX05@6**  
**2210136-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0263	78.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.148</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX05@6**  
**2210136-05 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.44	0.235	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	93.6	0.470	"	"	"	"	"	"
Cadmium	0.278	0.235	"	"	"	"	"	"
Copper	8.24	0.470	"	"	"	"	"	"
Lead	10.6	0.235	"	"	"	"	"	"
Nickel	7.30	0.470	"	"	"	"	"	"
Selenium	ND	0.305	"	"	"	"	"	"
Silver	0.0653	0.0235	"	"	"	"	"	"
Zinc	33.1	0.470	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/10/22 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/10/22 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.7	0.0587	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	33.5	0.0587	"	"	"	"	"	"	
Sodium	58.9	0.0587	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/10/22 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.46	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/10/22 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX05@6**  
**2210136-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	85.2	%	1	BFJ0325	10/13/22	10/13/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.745	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/10/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX06@12**  
**2210136-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0586	147 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0450	113 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

**Reported:**  
10/17/22 08:56

**2EX06@12**  
**2210136-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0272	81.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.136</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX06@12**  
**2210136-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.25	0.245	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	84.9	0.490	"	"	"	"	"	"
Cadmium	0.289	0.245	"	"	"	"	"	"
Copper	8.15	0.490	"	"	"	"	"	"
Lead	10.0	0.245	"	"	"	"	"	"
Nickel	6.78	0.490	"	"	"	"	"	"
Selenium	ND	0.318	"	"	"	"	"	"
Silver	0.0543	0.0245	"	"	"	"	"	"
Zinc	29.7	0.490	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.7	0.0612	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	31.8	0.0612	"	"	"	"	"	"	
Sodium	21.7	0.0612	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.600	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:56

**2EX06@12**  
**2210136-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.7	%	1	BFJ0325	10/13/22	10/13/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.506</b>	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/10/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.74</b>		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:56

**2EX06@6**  
**2210136-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0592	148 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0438	110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.7	85.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX06@6**  
**2210136-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.102</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX06@6**  
**2210136-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.64	0.250	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	76.3	0.500	"	"	"	"	"	"
Cadmium	ND	0.250	"	"	"	"	"	"
Copper	6.00	0.500	"	"	"	"	"	"
Lead	8.99	0.250	"	"	"	"	"	"
Nickel	6.84	0.500	"	"	"	"	"	"
Selenium	ND	0.325	"	"	"	"	"	"
Silver	0.0540	0.0250	"	"	"	"	"	"
Zinc	28.1	0.500	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.5	0.0625	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	58.6	0.0625	"	"	"	"	"	"	
Sodium	41.8	0.0625	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.853	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:56

**2EX06@6**  
**2210136-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>80.0</b>		%	1	BFJ0325	10/13/22	10/13/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.74</b>	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/10/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.89</b>		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

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

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

**Reported:**  
10/17/22 08:56

**2EX02@14**  
**2210136-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0230	10/10/22	10/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0558	140 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0231	"	10/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.6	117 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:56

**2EX02@14**  
**2210136-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0275	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0280	84.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0476</b>	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**2EX02@14**  
**2210136-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.50	0.232	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	19.5	0.464	"	"	"	"	"	"
Cadmium	ND	0.232	"	"	"	"	"	"
Copper	3.95	0.464	"	"	"	"	"	"
Lead	4.44	0.232	"	"	"	"	"	"
Nickel	4.44	0.464	"	"	"	"	"	"
Selenium	ND	0.301	"	"	"	"	"	"
Silver	ND	0.0232	"	"	"	"	"	"
Zinc	16.2	0.464	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0338	10/13/22	10/17/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	216	0.0580	mg/L dry	1	BFJ0297	10/12/22	10/14/22	EPA 6020B	
Magnesium	48.6	0.0580	"	"	"	"	"	"	
Sodium	97.3	0.0580	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.56	0.00100	units	1	BFJ0369	10/14/22	10/14/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/17/22 08:56

**2EX02@14**  
**2210136-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BFJ0325	10/13/22	10/13/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.73	0.0100	mmhos/cm	1	BFJ0304	10/12/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/07/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BFJ0303	10/12/22	10/14/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/17/22 08:56

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0230 - EPA 5030 Soil MS

##### Blank (BFJ0230-BLK1)

Prepared: 10/10/22 Analyzed: 10/11/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0518		"	0.0400		129	50-150			
Surrogate: Toluene-d8	0.0423		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

##### LCS (BFJ0230-BS1)

Prepared: 10/10/22 Analyzed: 10/11/22

Benzene	0.0699	0.0020	mg/kg	0.0750		93.2	70-130			
Toluene	0.0732	0.0050	"	0.0750		97.6	70-130			
Ethylbenzene	0.0728	0.0050	"	0.0750		97.0	70-130			
m,p-Xylene	0.145	0.010	"	0.150		96.6	70-130			
o-Xylene	0.0721	0.0050	"	0.0750		96.1	70-130			
1,2,4-Trimethylbenzene	0.0788	0.0050	"	0.0750		105	70-130			
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.0750		103	70-130			
Naphthalene	0.0695	0.0038	"	0.0750		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0481		"	0.0400		120	50-150			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

##### Matrix Spike (BFJ0230-MS1)

Source: 2210130-01

Prepared: 10/10/22 Analyzed: 10/11/22

Benzene	0.269	0.0020	mg/kg	0.0750	0.198	94.8	70-130			
Toluene	0.0710	0.0050	"	0.0750	ND	94.6	70-130			
Ethylbenzene	0.390	0.0050	"	0.0750	0.310	107	70-130			
m,p-Xylene	0.139	0.010	"	0.150	ND	92.4	70-130			
o-Xylene	0.0720	0.0050	"	0.0750	ND	96.0	70-130			
1,2,4-Trimethylbenzene	0.661	0.0050	"	0.0750	0.592	92.5	70-130			
1,3,5-Trimethylbenzene	0.0794	0.0050	"	0.0750	ND	106	70-130			
Naphthalene	0.181	0.0038	"	0.0750	0.106	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0567		"	0.0400		142	50-150			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0469		"	0.0400		117	50-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0230 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0230-MSD1)		Source: 2210130-01			Prepared: 10/10/22 Analyzed: 10/11/22					
Benzene	0.286	0.0020	mg/kg	0.0750	0.198	118	70-130	6.31	30	
Toluene	0.0750	0.0050	"	0.0750	ND	100	70-130	5.47	30	
Ethylbenzene	0.394	0.0050	"	0.0750	0.310	113	70-130	1.12	30	
m,p-Xylene	0.146	0.010	"	0.150	ND	97.4	70-130	5.23	30	
o-Xylene	0.0754	0.0050	"	0.0750	ND	101	70-130	4.72	30	
1,2,4-Trimethylbenzene	0.667	0.0050	"	0.0750	0.592	100	70-130	0.867	30	
1,3,5-Trimethylbenzene	0.0833	0.0050	"	0.0750	ND	111	70-130	4.79	30	
Naphthalene	0.181	0.0038	"	0.0750	0.106	99.6	70-130	0.332	30	
Surrogate: 1,2-Dichloroethane-d4		0.0586	"	0.0400		146	50-150			
Surrogate: Toluene-d8		0.0326	"	0.0400		81.4	50-150			
Surrogate: 4-Bromofluorobenzene		0.0477	"	0.0400		119	50-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0231 - EPA 3550A**

**Blank (BFJ0231-BLK1)**

Prepared: 10/10/22 Analyzed: 10/11/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0231-BS1)**

Prepared: 10/10/22 Analyzed: 10/11/22

C10-C28 (DRO)	615	50	mg/kg	500	123	70-130
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**Matrix Spike (BFJ0231-MS1)**

**Source: 2210130-01**

Prepared: 10/10/22 Analyzed: 10/11/22

C10-C28 (DRO)	641	50	mg/kg	500	170	94.2	70-130
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**Matrix Spike Dup (BFJ0231-MSD1)**

**Source: 2210130-01**

Prepared: 10/10/22 Analyzed: 10/11/22

C10-C28 (DRO)	648	50	mg/kg	500	170	95.7	70-130	1.16	20
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/17/22 08:56

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0275 - EPA 5030 Soil MS

##### Blank (BFJ0275-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0146		"	0.0333		43.9		40-150			
Surrogate: Fluoranthene-d10	0.0280		"	0.0333		83.9		40-150			

##### LCS (BFJ0275-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	0.0314	0.00500	mg/kg	0.0333		94.1		31-137			
Anthracene	0.0295	0.00500	"	0.0333		88.6		30-120			
Benzo (a) anthracene	0.0231	0.00500	"	0.0333		69.3		30-120			
Benzo (a) pyrene	0.0237	0.00500	"	0.0333		71.0		30-120			
Benzo (b) fluoranthene	0.0222	0.00500	"	0.0333		66.5		30-120			
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0333		70.4		30-120			
Chrysene	0.0296	0.00500	"	0.0333		88.8		30-120			
Dibenz (a,h) anthracene	0.0273	0.00500	"	0.0333		82.0		30-120			
Fluoranthene	0.0304	0.00500	"	0.0333		91.1		30-120			
Fluorene	0.0310	0.00500	"	0.0333		93.0		30-120			
Indeno (1,2,3-cd) pyrene	0.0395	0.00500	"	0.0333		119		30-120			
Pyrene	0.0314	0.00500	"	0.0333		94.1		35-142			
1-Methylnaphthalene	0.0211	0.00500	"	0.0333		63.2		35-142			
2-Methylnaphthalene	0.0193	0.00500	"	0.0333		57.9		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0348		"	0.0333		105		40-150			
Surrogate: Fluoranthene-d10	0.0236		"	0.0333		70.9		40-150			

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

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

**Reported:**  
10/17/22 08:56

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0275 - EPA 5030 Soil MS

Matrix Spike (BFJ0275-MS1)	Source: 2210136-01			Prepared: 10/12/22	Analyzed: 10/13/22	
Acenaphthene	0.0224	0.00500	mg/kg	0.0333	ND	67.2 31-137
Anthracene	0.0218	0.00500	"	0.0333	ND	65.3 30-120
Benzo (a) anthracene	0.0265	0.00500	"	0.0333	ND	79.5 30-120
Benzo (a) pyrene	0.0185	0.00500	"	0.0333	ND	55.6 30-120
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3 30-120
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.3 30-120
Chrysene	0.0191	0.00500	"	0.0333	ND	57.3 30-120
Dibenz (a,h) anthracene	0.0175	0.00500	"	0.0333	ND	52.6 30-120
Fluoranthene	0.0222	0.00500	"	0.0333	ND	66.5 30-120
Fluorene	0.0220	0.00500	"	0.0333	ND	65.9 30-120
Indeno (1,2,3-cd) pyrene	0.0249	0.00500	"	0.0333	ND	74.6 30-120
Pyrene	0.0181	0.00500	"	0.0333	ND	54.4 35-142
1-Methylnaphthalene	0.00788	0.00500	"	0.0333	ND	23.6 15-130
2-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.2 15-130
Surrogate: 2-Methylnaphthalene-d10	0.0256		"	0.0333		76.8 40-150
Surrogate: Fluoranthene-d10	0.0241		"	0.0333		72.4 40-150

Matrix Spike Dup (BFJ0275-MSD1)	Source: 2210136-01			Prepared: 10/12/22	Analyzed: 10/13/22				
Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.6	31-137	2.18	30
Anthracene	0.0233	0.00500	"	0.0333	ND	69.9	30-120	6.69	30
Benzo (a) anthracene	0.0267	0.00500	"	0.0333	ND	80.1	30-120	0.745	30
Benzo (a) pyrene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	0.288	30
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	3.83	30
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	3.41	30
Chrysene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	1.85	30
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	1.02	30
Fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	0.540	30
Fluorene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	4.85	30
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333	ND	75.2	30-120	0.875	30
Pyrene	0.0189	0.00500	"	0.0333	ND	56.6	35-142	3.92	30
1-Methylnaphthalene	0.00751	0.00500	"	0.0333	ND	22.5	15-130	4.75	50
2-Methylnaphthalene	0.0131	0.00500	"	0.0333	ND	39.3	15-130	4.75	50
Surrogate: 2-Methylnaphthalene-d10	0.0232		"	0.0333		69.6	40-150		
Surrogate: Fluoranthene-d10	0.0240		"	0.0333		72.0	40-150		

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0283 - EPA 3050B**

**Blank (BFJ0283-BLK1)**

Prepared & Analyzed: 10/12/22

Boron ND 0.0100 mg/L

**LCS (BFJ0283-BS1)**

Prepared & Analyzed: 10/12/22

Boron 4.59 0.0100 mg/L 5.00 91.8 80-120

**Duplicate (BFJ0283-DUP1)**

Source: 2210119-01

Prepared & Analyzed: 10/12/22

Boron 0.0743 0.0100 mg/L 0.0937 23.1 20 QR-03

**Matrix Spike (BFJ0283-MS1)**

Source: 2210119-01

Prepared & Analyzed: 10/12/22

Boron 4.61 0.0100 mg/L 5.00 0.0937 90.3 75-125

**Matrix Spike Dup (BFJ0283-MSD1)**

Source: 2210119-01

Prepared & Analyzed: 10/12/22

Boron 4.60 0.0100 mg/L 5.00 0.0937 90.2 75-125 0.158 25

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

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

**Reported:**  
10/17/22 08:56

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0279 - EPA 3050B**

**Blank (BFJ0279-BLK1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0279-BS1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Arsenic	38.4	0.200	mg/kg wet	40.0	96.0	80-120
Barium	38.6	0.400	"	40.0	96.5	80-120
Cadmium	1.95	0.200	"	2.00	97.5	80-120
Copper	44.6	0.400	"	40.0	111	80-120
Lead	19.7	0.200	"	20.0	98.4	80-120
Nickel	40.8	0.400	"	40.0	102	80-120
Selenium	4.63	0.260	"	4.00	116	80-120
Silver	1.96	0.0200	"	2.00	98.2	80-120
Zinc	40.6	0.400	"	40.0	101	80-120

**Duplicate (BFJ0279-DUP1)**

Source: 2210135-01

Prepared: 10/12/22 Analyzed: 10/13/22

Arsenic	0.945	0.209	mg/kg dry	0.961	1.67	20
Barium	45.0	0.419	"	44.8	0.453	20
Cadmium	0.226	0.209	"	0.221	2.25	20
Copper	4.95	0.419	"	4.82	2.58	20
Lead	8.09	0.209	"	8.13	0.377	20
Nickel	3.79	0.419	"	3.68	2.89	20
Selenium	0.188	0.272	"	0.184	1.80	20
Silver	0.0285	0.0209	"	0.0289	1.46	20
Zinc	17.1	0.419	"	16.6	2.81	20

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

### Total Metals by EPA 6020B - Quality Control

#### Summit Scientific

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

#### Batch BFJ0279 - EPA 3050B

Matrix Spike (BFJ0279-MS1)		Source: 2210135-01			Prepared: 10/12/22 Analyzed: 10/13/22					
Arsenic	13.7	0.209	mg/kg dry	41.9	0.961	30.3	75-125			QM-05
Barium	82.4	0.419	"	41.9	44.8	89.8	75-125			
Cadmium	2.10	0.209	"	2.09	0.221	90.0	75-125			
Copper	39.1	0.419	"	41.9	4.82	81.8	75-125			
Lead	28.2	0.209	"	20.9	8.13	95.9	75-125			
Nickel	35.5	0.419	"	41.9	3.68	76.0	75-125			
Selenium	5.02	0.272	"	4.19	0.184	115	75-125			
Silver	1.84	0.0209	"	2.09	0.0289	86.7	75-125			
Zinc	49.8	0.419	"	41.9	16.6	79.3	75-125			

Matrix Spike Dup (BFJ0279-MSD1)		Source: 2210135-01			Prepared: 10/12/22 Analyzed: 10/13/22					
Arsenic	13.5	0.209	mg/kg dry	41.9	0.961	30.0	75-125	1.07	25	QM-05
Barium	87.0	0.419	"	41.9	44.8	101	75-125	5.49	25	
Cadmium	2.28	0.209	"	2.09	0.221	98.6	75-125	8.20	25	
Copper	38.4	0.419	"	41.9	4.82	80.2	75-125	1.73	25	
Lead	29.6	0.209	"	20.9	8.13	103	75-125	4.82	25	
Nickel	34.8	0.419	"	41.9	3.68	74.2	75-125	2.08	25	QM-05
Selenium	4.79	0.272	"	4.19	0.184	110	75-125	4.63	25	
Silver	1.99	0.0209	"	2.09	0.0289	93.9	75-125	7.81	25	
Zinc	49.0	0.419	"	41.9	16.6	77.4	75-125	1.62	25	

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

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

**Reported:**  
10/17/22 08:56

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0338 - 3060A Mod**

**Blank (BFJ0338-BLK1)**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0338-BS1)**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent 23.2 0.30 mg/kg wet 25.0 93.0 80-120

**Duplicate (BFJ0338-DUP1)**

**Source: 2210098-05**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0338-MS1)**

**Source: 2210098-05**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent 28.6 0.30 mg/kg dry 27.5 ND 104 75-125

**Matrix Spike Dup (BFJ0338-MSD1)**

**Source: 2210098-05**

Prepared & Analyzed: 10/13/22

Chromium, Hexavalent 26.9 0.30 mg/kg dry 27.5 ND 97.6 75-125 6.35 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0297 - General Preparation**

**Blank (BFJ0297-BLK1)**

Prepared: 10/12/22 Analyzed: 10/14/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0297-BS1)**

Prepared: 10/12/22 Analyzed: 10/14/22

Calcium	5.24	0.0500	mg/L wet	5.00	105	70-130
Magnesium	6.03	0.0500	"	5.00	121	70-130
Sodium	5.79	0.0500	"	5.00	116	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

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

**Summit Scientific**

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

**Batch BFJ0325 - General Preparation**

**Duplicate (BFJ0325-DUP1)**

**Source: 2210135-01**

Prepared & Analyzed: 10/13/22

% Solids	96.3	%	95.6	0.742	20
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0304 - General Preparation**

**Blank (BFJ0304-BLK1)**

Prepared: 10/12/22 Analyzed: 10/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0304-BS1)**

Prepared: 10/12/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFJ0304-DUP1)**

**Source: 2210110-01**

Prepared: 10/12/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.122 0.0100 mmhos/cm 0.122 0.0817 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 - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0303 - General Preparation**

**LCS (BFJ0303-BS1)**

Prepared: 10/12/22 Analyzed: 10/14/22

pH	8.95	pH Units	9.18	97.5	95-105
----	------	----------	------	------	--------

**Duplicate (BFJ0303-DUP1)**

**Source: 2210110-01**

Prepared: 10/12/22 Analyzed: 10/14/22

pH	7.65	pH Units	7.63	0.262	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/17/22 08:56

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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 21, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210145

Enclosed are the results of analyses for samples received by Summit Scientific on 10/11/22 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell". The signature is written in a cursive, flowing style.

Mikayla Axtell For Paul Shrewsbury  
President



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2EX07@12	2210145-01	Soil	10/11/22 12:00	10/11/22 15:50
2EX08@12	2210145-02	Soil	10/11/22 13:55	10/11/22 15:50
2EX07@6	2210145-03	Soil	10/11/22 12:06	10/11/22 15:50
2EX08@6	2210145-04	Soil	10/11/22 13:55	10/11/22 15:50

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.*

22/01/15

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Entrada Consulting GroupProject Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com ; pdc&hs

City/State/Zip:

cveryser@entradainc.comPhone: 586 945 6355Project Name: marshon PadSampler Name: chelsea veryser

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Full Table	BTEX N	TMBs	TPH					
1	2EX07@12	10/11/22	1200	3			X			X				X							See Notes
2	2EX06@12	↓	1350	↓			↓			↓				X							See Notes
3	2EX07@10	↓	1206	↓			↓			↓					X	X	X				Same day
4	2EX07@6	↓	1355	↓			↓			↓					X	X	X				Same day
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/11/22 1550</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/12/22 1550</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u>	24 hours <u>—</u>
				48 hours <u>—</u>	72 hours <u>—</u>
					Standard <u>X</u>
Temperature Upon Receipt: <u>12.4</u>	Corrected Temperature <u>—</u>	HNO <sub>3</sub> lot #	Sample Integrity:	Samples Intact: <u>Yes</u>	No
IR gun correction: <u>—</u>	IR gun #: <u>1</u>				

Notes: 2EX07@12 + 2EX06@12 Full table standard BTEXN, TMBs, TPH are same day

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2210145Client: Entrada Client Project ID: Mershon PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 12.4Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> 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 ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

10-11-2219:15





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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**2EX07@12**  
**2210145-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0272	10/11/22	10/11/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		90.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0273	"	10/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		85.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX07@12**  
**2210145-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0274	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		78.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0246</b>	0.0100	mg/L	1	BFJ0285	10/12/22	10/13/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**2EX07@12**  
**2210145-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.31	0.219	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	50.9	0.438	"	"	"	"	"	"
Cadmium	ND	0.219	"	"	"	"	"	"
Copper	3.49	0.438	"	"	"	"	"	"
Lead	4.10	0.219	"	"	"	"	"	"
Nickel	4.45	0.438	"	"	"	"	"	"
Selenium	ND	0.285	"	"	"	"	"	"
Silver	0.0223	0.0219	"	"	"	"	"	"
Zinc	13.4	0.438	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.5	0.0547	mg/L dry	1	BFJ0324	10/13/22	10/15/22	EPA 6020B	
Magnesium	31.3	0.0547	"	"	"	"	"	"	
Sodium	35.9	0.0547	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.934	0.00100	units	1	BFJ0434	10/18/22	10/18/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**2EX07@12**  
**2210145-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BFJ0326	10/13/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.363	0.0100	mmhos/cm	1	BFJ0376	10/14/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/11/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BFJ0377	10/14/22	10/14/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX08@12**  
**2210145-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0272	10/11/22	10/11/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		90.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0273	"	10/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX08@12**  
**2210145-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0274	10/12/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0264</b>	0.0100	mg/L	1	BFJ0285	10/12/22	10/13/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**2EX08@12**  
**2210145-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.51	0.227	mg/kg dry	1	BFJ0279	10/12/22	10/13/22	EPA 6020B
Barium	52.6	0.454	"	"	"	"	"	"
Cadmium	ND	0.227	"	"	"	"	"	"
Copper	4.34	0.454	"	"	"	"	"	"
Lead	5.64	0.227	"	"	"	"	"	"
Nickel	5.24	0.454	"	"	"	"	"	"
Selenium	ND	0.295	"	"	"	"	"	"
Silver	ND	0.0227	"	"	"	"	"	"
Zinc	18.2	0.454	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.5	0.0567	mg/L dry	1	BFJ0324	10/13/22	10/15/22	EPA 6020B	
Magnesium	24.4	0.0567	"	"	"	"	"	"	
Sodium	7.82	0.0567	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.221	0.00100	units	1	BFJ0434	10/18/22	10/18/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX08@12**  
**2210145-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BFJ0326	10/13/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.396	0.0100	mmhos/cm	1	BFJ0376	10/14/22	10/14/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BFJ0377	10/14/22	10/14/22	EPA 9045D	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**2EX07@6**  
**2210145-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0272	10/11/22	10/11/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		91.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0273	"	10/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX07@6**  
**2210145-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.187</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**2EX07@6**  
**2210145-03 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.91	0.251	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	76.8	0.501	"	"	"	"	"	"
Cadmium	ND	0.251	"	"	"	"	"	"
Copper	6.29	0.501	"	"	"	"	"	"
Lead	8.79	0.251	"	"	"	"	"	"
Nickel	7.13	0.501	"	"	"	"	"	"
Selenium	ND	0.326	"	"	"	"	"	"
Silver	0.140	0.0251	"	"	"	"	"	"
Zinc	29.8	0.501	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/11/22 12:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/11/22 12:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	69.3	0.0626	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	36.9	0.0626	"	"	"	"	"	"	
Sodium	36.5	0.0626	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/11/22 12:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.881	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX07@6**  
**2210145-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.682	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/11/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.54		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/21/22 12:35

**2EX08@6**  
**2210145-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0272	10/11/22	10/11/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		90.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0273	"	10/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX08@6**  
**2210145-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0346	10/14/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0776</b>	0.0100	mg/L	1	BFJ0351	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**2EX08@6**  
**2210145-04 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.53	0.222	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	61.8	0.444	"	"	"	"	"	"
Cadmium	ND	0.222	"	"	"	"	"	"
Copper	6.59	0.444	"	"	"	"	"	"
Lead	8.01	0.222	"	"	"	"	"	"
Nickel	6.10	0.444	"	"	"	"	"	"
Selenium	ND	0.289	"	"	"	"	"	"
Silver	0.139	0.0222	"	"	"	"	"	"
Zinc	26.3	0.444	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/11/22 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/11/22 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.0	0.0555	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	34.0	0.0555	"	"	"	"	"	"	
Sodium	38.7	0.0555	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/11/22 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.998	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**2EX08@6**  
**2210145-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.1		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.655	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/11/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0272 - EPA 5030 Soil MS

##### Blank (BFJ0272-BLK1)

Prepared & Analyzed: 10/11/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0366		"	0.0400		91.4	50-150			
Surrogate: Toluene-d8	0.0365		"	0.0400		91.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	50-150			

##### LCS (BFJ0272-BS1)

Prepared: 10/11/22 Analyzed: 10/12/22

Benzene	0.104	0.0020	mg/kg	0.100		104	70-130			
Toluene	0.0850	0.0050	"	0.100		85.0	70-130			
Ethylbenzene	0.0854	0.0050	"	0.100		85.4	70-130			
m,p-Xylene	0.230	0.010	"	0.200		115	70-130			
o-Xylene	0.100	0.0050	"	0.100		100	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0955	0.0038	"	0.100		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.6	50-150			
Surrogate: Toluene-d8	0.0371		"	0.0400		92.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0361		"	0.0400		90.2	50-150			

##### Matrix Spike (BFJ0272-MS1)

Source: 2210144-01

Prepared: 10/11/22 Analyzed: 10/12/22

Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130			
Toluene	0.0865	0.0050	"	0.100	ND	86.5	70-130			
Ethylbenzene	0.0856	0.0050	"	0.100	ND	85.6	70-130			
m,p-Xylene	0.232	0.010	"	0.200	ND	116	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
Naphthalene	0.0851	0.0038	"	0.100	ND	85.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.5	50-150			

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0272 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0272-MSD1)		Source: 2210144-01			Prepared: 10/11/22 Analyzed: 10/12/22					
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	0.0572	30	
Toluene	0.0876	0.0050	"	0.100	ND	87.6	70-130	1.24	30	
Ethylbenzene	0.0911	0.0050	"	0.100	ND	91.1	70-130	6.28	30	
m,p-Xylene	0.223	0.010	"	0.200	ND	112	70-130	3.72	30	
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130	8.16	30	
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130	11.6	30	
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	10.7	30	
Naphthalene	0.0904	0.0038	"	0.100	ND	90.4	70-130	6.02	30	
Surrogate: 1,2-Dichloroethane-d4		0.0408	"	0.0400		102	50-150			
Surrogate: Toluene-d8		0.0369	"	0.0400		92.3	50-150			
Surrogate: 4-Bromofluorobenzene		0.0375	"	0.0400		93.8	50-150			

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0273 - EPA 3550A**

**Blank (BFJ0273-BLK1)**

Prepared: 10/11/22 Analyzed: 10/12/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0273-BS1)**

Prepared: 10/11/22 Analyzed: 10/12/22

C10-C28 (DRO)	547	50	mg/kg	500	109	70-130
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**Matrix Spike (BFJ0273-MS1)**

Source: 2210144-01

Prepared: 10/11/22 Analyzed: 10/12/22

C10-C28 (DRO)	503	50	mg/kg	500	32.9	94.0	70-130
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**Matrix Spike Dup (BFJ0273-MSD1)**

Source: 2210144-01

Prepared: 10/11/22 Analyzed: 10/12/22

C10-C28 (DRO)	515	50	mg/kg	500	32.9	96.5	70-130	2.52	20
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Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0274 - EPA 5030 Soil MS

##### Blank (BFJ0274-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0252		"	0.0333		75.6	40-150			
Surrogate: Fluoranthene-d10	0.0194		"	0.0333		58.1	40-150			

##### LCS (BFJ0274-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	0.0306	0.00500	mg/kg	0.0333		91.8	31-137			
Anthracene	0.0311	0.00500	"	0.0333		93.2	30-120			
Benzo (a) anthracene	0.0260	0.00500	"	0.0333		78.0	30-120			
Benzo (a) pyrene	0.0286	0.00500	"	0.0333		85.7	30-120			
Benzo (b) fluoranthene	0.0274	0.00500	"	0.0333		82.3	30-120			
Benzo (k) fluoranthene	0.0285	0.00500	"	0.0333		85.5	30-120			
Chrysene	0.0268	0.00500	"	0.0333		80.5	30-120			
Dibenz (a,h) anthracene	0.0318	0.00500	"	0.0333		95.5	30-120			
Fluoranthene	0.0314	0.00500	"	0.0333		94.2	30-120			
Fluorene	0.0229	0.00500	"	0.0333		68.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0232	0.00500	"	0.0333		69.6	30-120			
Pyrene	0.0268	0.00500	"	0.0333		80.3	35-142			
1-Methylnaphthalene	0.0298	0.00500	"	0.0333		89.3	35-142			
2-Methylnaphthalene	0.0303	0.00500	"	0.0333		90.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0314		"	0.0333		94.1	40-150			
Surrogate: Fluoranthene-d10	0.0309		"	0.0333		92.7	40-150			

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

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

**Reported:**  
10/21/22 12:35

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0274 - EPA 5030 Soil MS

Matrix Spike (BFJ0274-MS1)		Source: 2209590-01			Prepared: 10/12/22 Analyzed: 10/13/22						
Acenaphthene	0.0276	0.00500	mg/kg	0.0333	ND	82.7	31-137				
Anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120				
Benzo (a) anthracene	0.0183	0.00500	"	0.0333	ND	55.0	30-120				
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	ND	56.7	30-120				
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120				
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120				
Chrysene	0.0205	0.00500	"	0.0333	ND	61.6	30-120				
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120				
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120				
Fluorene	0.0181	0.00500	"	0.0333	ND	54.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.6	30-120				
Pyrene	0.0190	0.00500	"	0.0333	ND	57.1	35-142				
1-Methylnaphthalene	0.0273	0.00500	"	0.0333	ND	81.9	15-130				
2-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.6	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0199		"	0.0333		59.6	40-150				
Surrogate: Fluoranthene-d10	0.0184		"	0.0333		55.3	40-150				

Matrix Spike Dup (BFJ0274-MSD1)		Source: 2209590-01			Prepared: 10/12/22 Analyzed: 10/13/22						
Acenaphthene	0.0293	0.00500	mg/kg	0.0333	ND	87.8	31-137	6.00	30		
Anthracene	0.0253	0.00500	"	0.0333	ND	75.8	30-120	7.16	30		
Benzo (a) anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	6.98	30		
Benzo (a) pyrene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	10.2	30		
Benzo (b) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	12.3	30		
Benzo (k) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	11.1	30		
Chrysene	0.0225	0.00500	"	0.0333	ND	67.6	30-120	9.29	30		
Dibenz (a,h) anthracene	0.0240	0.00500	"	0.0333	ND	72.1	30-120	7.11	30		
Fluoranthene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	11.7	30		
Fluorene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	8.43	30		
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	9.33	30		
Pyrene	0.0225	0.00500	"	0.0333	ND	67.6	35-142	16.9	30		
1-Methylnaphthalene	0.0277	0.00500	"	0.0333	ND	83.1	15-130	1.42	50		
2-Methylnaphthalene	0.0255	0.00500	"	0.0333	ND	76.6	15-130	3.85	50		
Surrogate: 2-Methylnaphthalene-d10	0.0214		"	0.0333		64.2	40-150				
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.6	40-150				

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0346 - EPA 5030 Soil MS

##### Blank (BFJ0346-BLK1)

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0192		"	0.0333		57.6	40-150			
Surrogate: Fluoranthene-d10	0.0362		"	0.0333		109	40-150			

##### LCS (BFJ0346-BS1)

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0325	0.00500	mg/kg	0.0333		97.5	31-137			
Anthracene	0.0292	0.00500	"	0.0333		87.5	30-120			
Benzo (a) anthracene	0.0237	0.00500	"	0.0333		71.0	30-120			
Benzo (a) pyrene	0.0237	0.00500	"	0.0333		71.2	30-120			
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333		82.8	30-120			
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Chrysene	0.0286	0.00500	"	0.0333		85.9	30-120			
Dibenz (a,h) anthracene	0.0185	0.00500	"	0.0333		55.5	30-120			
Fluoranthene	0.0314	0.00500	"	0.0333		94.3	30-120			
Fluorene	0.0327	0.00500	"	0.0333		98.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333		81.1	30-120			
Pyrene	0.0304	0.00500	"	0.0333		91.2	35-142			
1-Methylnaphthalene	0.0163	0.00500	"	0.0333		48.8	35-142			
2-Methylnaphthalene	0.0168	0.00500	"	0.0333		50.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0331		"	0.0333		99.3	40-150			
Surrogate: Fluoranthene-d10	0.0273		"	0.0333		82.0	40-150			

Summit Scientific

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

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

**Reported:**  
10/21/22 12:35

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0346 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0346-MS1)

Source: 2210095-01

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.3	31-137		
Anthracene	0.0139	0.00500	"	0.0333	ND	41.7	30-120		
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120		
Benzo (a) pyrene	0.0143	0.00500	"	0.0333	ND	42.8	30-120		
Benzo (b) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	30-120		
Benzo (k) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120		
Chrysene	0.0152	0.00500	"	0.0333	ND	45.7	30-120		
Dibenz (a,h) anthracene	0.0228	0.00500	"	0.0333	ND	68.5	30-120		
Fluoranthene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Fluorene	0.0180	0.00500	"	0.0333	ND	53.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0131	0.00500	"	0.0333	ND	39.4	30-120		
Pyrene	0.0137	0.00500	"	0.0333	ND	41.0	35-142		
1-Methylnaphthalene	0.00685	0.00500	"	0.0333	ND	20.5	15-130		
2-Methylnaphthalene	0.0120	0.00500	"	0.0333	ND	35.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0204		"	0.0333		61.3	40-150		
Surrogate: Fluoranthene-d10	0.0172		"	0.0333		51.7	40-150		

##### Matrix Spike Dup (BFJ0346-MSD1)

Source: 2210095-01

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.5	31-137	5.17	30
Anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	20.6	30
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	2.45	30
Benzo (a) pyrene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	3.66	30
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	11.6	30
Benzo (k) fluoranthene	0.0131	0.00500	"	0.0333	ND	39.4	30-120	11.2	30
Chrysene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	2.92	30
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	1.88	30
Fluoranthene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	2.69	30
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	5.62	30
Indeno (1,2,3-cd) pyrene	0.0131	0.00500	"	0.0333	ND	39.2	30-120	0.303	30
Pyrene	0.0157	0.00500	"	0.0333	ND	47.1	35-142	13.7	30
1-Methylnaphthalene	0.00848	0.00500	"	0.0333	ND	25.4	15-130	21.3	50
2-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.4	15-130	21.3	50
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.8	40-150		
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150		

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0285 - EPA 3050B**

**Blank (BFJ0285-BLK1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Boron ND 0.0100 mg/L

**LCS (BFJ0285-BS1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Boron 4.69 0.0100 mg/L 5.00 93.8 80-120

**Duplicate (BFJ0285-DUP1)**

**Source: 2210145-01**

Prepared: 10/12/22 Analyzed: 10/13/22

Boron 0.0207 0.0100 mg/L 0.0246 17.0 20

**Matrix Spike (BFJ0285-MS1)**

**Source: 2210145-01**

Prepared: 10/12/22 Analyzed: 10/13/22

Boron 4.93 0.0100 mg/L 5.00 0.0246 98.2 75-125

**Matrix Spike Dup (BFJ0285-MSD1)**

**Source: 2210145-01**

Prepared: 10/12/22 Analyzed: 10/13/22

Boron 4.98 0.0100 mg/L 5.00 0.0246 99.1 75-125 0.881 25

**Batch BFJ0351 - EPA 3050B**

**Blank (BFJ0351-BLK1)**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron ND 0.0100 mg/L

**LCS (BFJ0351-BS1)**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.63 0.0100 mg/L 5.00 113 80-120

**Duplicate (BFJ0351-DUP1)**

**Source: 2210095-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 0.108 0.0100 mg/L 0.113 4.30 20

**Matrix Spike (BFJ0351-MS1)**

**Source: 2210095-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.62 0.0100 mg/L 5.00 0.113 110 75-125

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0351 - EPA 3050B**

**Matrix Spike Dup (BFJ0351-MSD1)**

**Source: 2210095-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron	5.63	0.0100	mg/L	5.00	0.113	110	75-125	0.319	25
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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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0279 - EPA 3050B**

**Blank (BFJ0279-BLK1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0279-BS1)**

Prepared: 10/12/22 Analyzed: 10/13/22

Arsenic	38.4	0.200	mg/kg wet	40.0	96.0	80-120
Barium	38.6	0.400	"	40.0	96.5	80-120
Cadmium	1.95	0.200	"	2.00	97.5	80-120
Copper	44.6	0.400	"	40.0	111	80-120
Lead	19.7	0.200	"	20.0	98.4	80-120
Nickel	40.8	0.400	"	40.0	102	80-120
Selenium	4.63	0.260	"	4.00	116	80-120
Silver	1.96	0.0200	"	2.00	98.2	80-120
Zinc	40.6	0.400	"	40.0	101	80-120

**Duplicate (BFJ0279-DUP1)**


Source: 2210135-01

Prepared: 10/12/22 Analyzed: 10/13/22

Arsenic	0.945	0.209	mg/kg dry	0.961	1.67	20
Barium	45.0	0.419	"	44.8	0.453	20
Cadmium	0.226	0.209	"	0.221	2.25	20
Copper	4.95	0.419	"	4.82	2.58	20
Lead	8.09	0.209	"	8.13	0.377	20
Nickel	3.79	0.419	"	3.68	2.89	20
Selenium	0.188	0.272	"	0.184	1.80	20
Silver	0.0285	0.0209	"	0.0289	1.46	20
Zinc	17.1	0.419	"	16.6	2.81	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 - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0279 - EPA 3050B**

Matrix Spike (BFJ0279-MS1)		Source: 2210135-01			Prepared: 10/12/22 Analyzed: 10/13/22						
Arsenic	13.7	0.209	mg/kg dry	41.9	0.961	30.3	75-125				QM-05
Barium	82.4	0.419	"	41.9	44.8	89.8	75-125				
Cadmium	2.10	0.209	"	2.09	0.221	90.0	75-125				
Copper	39.1	0.419	"	41.9	4.82	81.8	75-125				
Lead	28.2	0.209	"	20.9	8.13	95.9	75-125				
Nickel	35.5	0.419	"	41.9	3.68	76.0	75-125				
Selenium	5.02	0.272	"	4.19	0.184	115	75-125				
Silver	1.84	0.0209	"	2.09	0.0289	86.7	75-125				
Zinc	49.8	0.419	"	41.9	16.6	79.3	75-125				

Matrix Spike Dup (BFJ0279-MSD1)		Source: 2210135-01			Prepared: 10/12/22 Analyzed: 10/13/22						
Arsenic	13.5	0.209	mg/kg dry	41.9	0.961	30.0	75-125	1.07	25		QM-05
Barium	87.0	0.419	"	41.9	44.8	101	75-125	5.49	25		
Cadmium	2.28	0.209	"	2.09	0.221	98.6	75-125	8.20	25		
Copper	38.4	0.419	"	41.9	4.82	80.2	75-125	1.73	25		
Lead	29.6	0.209	"	20.9	8.13	103	75-125	4.82	25		
Nickel	34.8	0.419	"	41.9	3.68	74.2	75-125	2.08	25		QM-05
Selenium	4.79	0.272	"	4.19	0.184	110	75-125	4.63	25		
Silver	1.99	0.0209	"	2.09	0.0289	93.9	75-125	7.81	25		
Zinc	49.0	0.419	"	41.9	16.6	77.4	75-125	1.62	25		

**Batch BFJ0347 - EPA 3050B**

Blank (BFJ0347-BLK1)		Prepared & Analyzed: 10/14/22									
Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Selenium	ND	0.260	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0347 - EPA 3050B**

**LCS (BFJ0347-BS1)**

Prepared & Analyzed: 10/14/22

Arsenic	41.6	0.200	mg/kg wet	40.0		104	80-120
Barium	37.6	0.400	"	40.0		94.1	80-120
Cadmium	2.00	0.200	"	2.00		100	80-120
Copper	34.9	0.400	"	40.0		87.3	80-120
Lead	23.2	0.200	"	20.0		116	80-120
Nickel	39.3	0.400	"	40.0		98.1	80-120
Selenium	3.60	0.260	"	4.00		90.0	80-120
Silver	1.72	0.0200	"	2.00		85.9	80-120
Zinc	42.1	0.400	"	40.0		105	80-120

**Duplicate (BFJ0347-DUP1)**

Source: 2210095-01

Prepared & Analyzed: 10/14/22

Arsenic	1.45	0.231	mg/kg dry		1.44		0.320	20
Barium	55.7	0.463	"		55.5		0.337	20
Cadmium	0.157	0.231	"		0.151		4.20	20
Copper	5.18	0.463	"		5.09		1.71	20
Lead	6.94	0.231	"		7.01		1.07	20
Nickel	5.78	0.463	"		5.66		2.03	20
Selenium	ND	0.301	"		ND			20
Silver	0.113	0.0231	"		0.126		10.8	20
Zinc	24.0	0.463	"		23.6		1.74	20

**Matrix Spike (BFJ0347-MS1)**

Source: 2210095-01

Prepared & Analyzed: 10/14/22

Arsenic	43.2	0.231	mg/kg dry	46.3	1.44	90.2	75-125
Barium	108	0.463	"	46.3	55.5	113	75-125
Cadmium	2.96	0.231	"	2.31	0.151	121	75-125
Copper	52.0	0.463	"	46.3	5.09	101	75-125
Lead	35.9	0.231	"	23.1	7.01	125	75-125
Nickel	52.8	0.463	"	46.3	5.66	102	75-125
Selenium	3.82	0.301	"	4.63	ND	82.6	75-125
Silver	2.47	0.0231	"	2.31	0.126	101	75-125
Zinc	73.4	0.463	"	46.3	23.6	108	75-125

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0347 - EPA 3050B**

Matrix Spike Dup (BFJ0347-MSD1)		Source: 2210095-01			Prepared & Analyzed: 10/14/22					
Arsenic	43.2	0.231	mg/kg dry	46.3	1.44	90.1	75-125	0.0418	25	
Barium	107	0.463	"	46.3	55.5	112	75-125	0.481	25	
Cadmium	2.95	0.231	"	2.31	0.151	121	75-125	0.110	25	
Copper	51.8	0.463	"	46.3	5.09	101	75-125	0.292	25	
Lead	35.8	0.231	"	23.1	7.01	124	75-125	0.468	25	
Nickel	52.7	0.463	"	46.3	5.66	102	75-125	0.291	25	
Selenium	3.84	0.301	"	4.63	ND	82.9	75-125	0.423	25	
Silver	2.48	0.0231	"	2.31	0.126	102	75-125	0.486	25	
Zinc	72.8	0.463	"	46.3	23.6	106	75-125	0.942	25	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0416 - 3060A Mod**

**Blank (BFJ0416-BLK1)**

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0416-BS1)**

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

**Duplicate (BFJ0416-DUP1)**

**Source: 2210120-21**

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0416-MS1)**

**Source: 2210120-21**

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 37.6 0.30 mg/kg dry 29.5 ND 127 75-125 QM-05

**Matrix Spike Dup (BFJ0416-MSD1)**

**Source: 2210120-21**

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 46.1 0.30 mg/kg dry 29.5 ND 156 75-125 20.3 20 QM-05

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0324 - General Preparation**

**Blank (BFJ0324-BLK1)**

Prepared: 10/13/22 Analyzed: 10/14/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0324-BS1)**

Prepared: 10/13/22 Analyzed: 10/14/22

Calcium	5.92	0.0500	mg/L wet	5.00	118	70-130
Magnesium	5.71	0.0500	"	5.00	114	70-130
Sodium	5.61	0.0500	"	5.00	112	70-130

**Batch BFJ0495 - General Preparation**

**Blank (BFJ0495-BLK1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0495-BS1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.38	0.0500	"	5.00	108	70-130
Sodium	5.03	0.0500	"	5.00	101	70-130

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0326 - General Preparation**

<b>Duplicate (BFJ0326-DUP1)</b>		<b>Source: 2210141-01</b>			Prepared: 10/13/22 Analyzed: 10/14/22						
% Solids	95.9		%		95.8			0.0567		20	

**Batch BFJ0361 - General Preparation**

<b>Duplicate (BFJ0361-DUP1)</b>		<b>Source: 2209455-01</b>			Prepared & Analyzed: 10/14/22						
% Solids	89.7		%		90.7			1.13		20	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0376 - General Preparation**

**Blank (BFJ0376-BLK1)**

Prepared & Analyzed: 10/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0376-BS1)**

Prepared & Analyzed: 10/14/22

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 97.8 95-105

**Duplicate (BFJ0376-DUP1)**

**Source: 2209506-02**

Prepared & Analyzed: 10/14/22

Specific Conductance (EC) 0.489 0.0100 mmhos/cm 0.489 0.00 20

**Batch BFJ0526 - General Preparation**

**Blank (BFJ0526-BLK1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0526-BS1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BFJ0526-DUP1)**

**Source: 2210095-01**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.837 0.0100 mmhos/cm 0.845 0.892 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 - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0377 - General Preparation**

**LCS (BFJ0377-BS1)**

Prepared & Analyzed: 10/14/22

pH	9.07		pH Units	9.18		98.8	95-105
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**Duplicate (BFJ0377-DUP1)**

**Source: 2210139-01**

Prepared & Analyzed: 10/14/22

pH	8.09		pH Units		8.09		0.00	20
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**Batch BFJ0527 - General Preparation**

**LCS (BFJ0527-BS1)**

Prepared & Analyzed: 10/20/22

pH	8.96		pH Units	9.18		97.6	95-105
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**Duplicate (BFJ0527-DUP1)**

**Source: 2210095-01**

Prepared & Analyzed: 10/20/22

pH	7.73		pH Units		7.73		0.00	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/21/22 12:35

### Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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 26, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210167

Enclosed are the results of analyses for samples received by Summit Scientific on 10/12/22 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2EX09@6	2210167-01	Soil	10/12/22 10:00	10/12/22 15:35
2EX10@6	2210167-02	Soil	10/12/22 10:10	10/12/22 15:35
2EX11@6	2210167-03	Soil	10/12/22 10:20	10/12/22 15:35
2EX12@6	2210167-04	Soil	10/12/22 10:30	10/12/22 15:35
2EX13@6	2210167-05	Soil	10/12/22 10:40	10/12/22 15:35
2EX14@6	2210167-06	Soil	10/12/22 10:50	10/12/22 15:35
2EX18@6	2210167-07	Soil	10/12/22 13:00	10/12/22 15:35
C01	2210167-08	Soil	10/12/22 14:00	10/12/22 15:35
2EX09@12	2210167-09	Soil	10/12/22 10:05	10/12/22 15:35
2EX10@12	2210167-10	Soil	10/12/22 10:15	10/12/22 15:35
2EX11@12	2210167-11	Soil	10/12/22 10:25	10/12/22 15:35
2EX12@12	2210167-12	Soil	10/12/22 10:35	10/12/22 15:35
2EX13@12	2210167-13	Soil	10/12/22 10:45	10/12/22 15:35
2EX14@12	2210167-14	Soil	10/12/22 10:55	10/12/22 15:35
2EX18@12	2210167-15	Soil	10/12/22 13:05	10/12/22 15:35
2EX19@14	2210167-16	Soil	10/12/22 13:10	10/12/22 15:35
2EX20@14	2210167-17	Soil	10/12/22 13:20	10/12/22 15:35
2EX21@14	2210167-18	Soil	10/12/22 13:25	10/12/22 15:35
2EX15@2.5	2210167-19	Soil	10/12/22 11:00	10/12/22 15:35

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.*

22101671

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 3

Client: Entrada Consulting GroupProject Manager: Ben Baugh

Address:

E-Mail: bbaugh@entrada inc. com } PDC EHS

City/State/Zip:

cveryser@entrada inc. comPhone: 586 9456355Project Name: Merston PadiSampler Name: Cheisea Vanyser

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	TMBs	TPH	Full Table C 915-1					
1	2EX09 @ 6	10/12/22	1000	3			X			X				X	X	X					See Below + notes ↘
2	2EX10 @ 6		1010											X	X	X					
3	2EX11 @ 6		1020											X	X	X					
4	2EX12 @ 6		1030											X	X	X					
5	2EX13 @ 6		1040											X	X	X					
6	2EX14 @ 6		1050											X	X	X					
7	2EX18 @ 6		1300											X	X	X					
8	CO1		1400											X	X	X					STANDARD
9	2EX09 @ 12		1005														X				See NOTES
10	2EX10 @ 12		1015														X				See NOTES

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/12/22 1535</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/12/22 1535</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>✓</u>	72 hours <u>—</u>
				24 hours <u>—</u>	Standard <u>✓</u>
				48 hours <u>—</u>	
Temperature Upon Receipt: <u>10.7</u>	Corrected Temperature <u>0</u>	HNO3 lot #	Sample Integrity:	Samples Intact: <u>Yes</u>	No
IR gun correction: <u>0</u>	IR gun #: <u>1</u>				

Notes:  
2EX09@12 +  
2EX10@12 → Full  
on Standard,  
BTEXN, TPH +  
TMBs on same  
day



# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 3

Client: Entrada consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com

PDC EHS

City/State/Zip:

entryser@entradainc.com

Phone: 586 945 6355

Project Name: Merston pad

Sampler Name: Chelsea Veryscr

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other									
1	2EX 11 @ 12	10/12/22	1025	3			X			X			X								See Notes
2	2EX 12 @ 12		1035																		
3	2EX 13 @ 12		1045																		
4	2EX 14 @ 12		1055																		
5	2EX 18 @ 12		1305																		
6	2EX 19 @ 14		1310																		
7	2EX 20 @ 14		1320																		
8	2EX 21 @ 14		1325																		
9																					
10																					

Relinquished by: [Signature] Date/Time: 10/12/22 1535

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Temperature Upon Receipt: 10.7

IR gun correction: 0

Received by: [Signature] Date/Time: 10/12/22 1535

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Corrected Temperature: 0

IR gun #: 1

HNO<sub>3</sub> lot # \_\_\_\_\_

Turn Around Time (Check)

Same Day ☒ 72 hours ☐

24 hours ☐ Standard ☒

48 hours ☐

Sample Integrity: ☒ Yes ☐ No

Samples Intact: ☒ Yes ☐ No

Notes:

Same day

BTEXN, TMBs

+TPH



$S_2$ 

303-277-9310

Page 3 of 3

Project Number:

www.s2scientific.com

S<sub>2</sub>

3/3

## Sample Receipt Checklist

S2 Work Order#

2210167

Client: Entrada Client Project ID: marshon padShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

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

Temp (°C)

10.7

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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 ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):

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

Custodian Printed Name

Date/Time

10.12.22

22:00



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX09@6**  
**2210167-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.7	117 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX09@6**  
**2210167-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0384	115 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.155</b>	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX09@6**  
**2210167-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.99	0.257	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	95.6	0.513	"	"	"	"	"	"
Cadmium	ND	0.257	"	"	"	"	"	"
Copper	8.46	0.513	"	"	"	"	"	"
Lead	12.2	0.257	"	"	"	"	"	"
Nickel	8.72	0.513	"	"	"	"	"	"
Selenium	ND	0.334	"	"	"	"	"	"
Silver	0.169	0.0257	"	"	"	"	"	"
Zinc	36.1	0.513	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	107	0.0642	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	70.2	0.0642	"	"	"	"	"	"	
Sodium	58.0	0.0642	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.07	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**2EX09@6**  
**2210167-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.9		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.990	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.45		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/26/22 10:26

**2EX10@6**  
**2210167-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0448	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.1	129 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**2EX10@6**  
**2210167-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0295	88.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.341</b>	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX10@6**  
**2210167-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.74	0.228	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	78.1	0.456	"	"	"	"	"	"
Cadmium	ND	0.228	"	"	"	"	"	"
Copper	6.74	0.456	"	"	"	"	"	"
Lead	9.88	0.228	"	"	"	"	"	"
Nickel	7.30	0.456	"	"	"	"	"	"
Selenium	ND	0.296	"	"	"	"	"	"
Silver	0.144	0.0228	"	"	"	"	"	"
Zinc	31.8	0.456	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	106	0.0570	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	71.5	0.0570	"	"	"	"	"	"	
Sodium	91.5	0.0570	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.68	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**2EX10@6**  
**2210167-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**2EX11@6**  
**2210167-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0427	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.3	130 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**2EX11@6**  
**2210167-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0252	75.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.309</b>	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX11@6**  
**2210167-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.01	0.215	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	271	0.430	"	"	"	"	"	"
Cadmium	ND	0.215	"	"	"	"	"	"
Copper	5.12	0.430	"	"	"	"	"	"
Lead	4.55	0.215	"	"	"	"	"	"
Nickel	5.03	0.430	"	"	"	"	"	"
Selenium	ND	0.280	"	"	"	"	"	"
Silver	0.110	0.0215	"	"	"	"	"	"
Zinc	20.9	0.430	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	135	0.0538	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	93.3	0.0538	"	"	"	"	"	"	
Sodium	185	0.0538	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.00	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX11@6**  
**2210167-03 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.91	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX12@6**  
**2210167-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0441	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	18.1	144 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX12@6**  
**2210167-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0304	91.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.120</b>	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX12@6**  
**2210167-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.76	0.239	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	55.4	0.478	"	"	"	"	"	"
Cadmium	ND	0.239	"	"	"	"	"	"
Copper	5.82	0.478	"	"	"	"	"	"
Lead	6.65	0.239	"	"	"	"	"	"
Nickel	5.97	0.478	"	"	"	"	"	"
Selenium	ND	0.311	"	"	"	"	"	"
Silver	0.119	0.0239	"	"	"	"	"	"
Zinc	23.6	0.478	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.8	0.0598	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	27.1	0.0598	"	"	"	"	"	"	
Sodium	41.9	0.0598	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.23	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX12@6**  
**2210167-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.6		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.551	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.53		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX13@6**  
**2210167-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.9	127 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX13@6**  
**2210167-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.194</b>	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX13@6**  
**2210167-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.60	0.244	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	110	0.489	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	7.30	0.489	"	"	"	"	"	"
Lead	9.75	0.244	"	"	"	"	"	"
Nickel	7.57	0.489	"	"	"	"	"	"
Selenium	ND	0.318	"	"	"	"	"	"
Silver	0.147	0.0244	"	"	"	"	"	"
Zinc	31.0	0.489	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	116	0.0611	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	65.0	0.0611	"	"	"	"	"	"	
Sodium	77.9	0.0611	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.44	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX13@6**  
**2210167-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.09	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

**Reported:**  
10/26/22 10:26

**2EX14@6**  
**2210167-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0571	143 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0537	134 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.9	95.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX14@6**  
**2210167-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0312	93.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.149</b>	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX14@6**  
**2210167-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.75	0.246	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	81.1	0.493	"	"	"	"	"	"
Cadmium	ND	0.246	"	"	"	"	"	"
Copper	6.81	0.493	"	"	"	"	"	"
Lead	9.83	0.246	"	"	"	"	"	"
Nickel	7.46	0.493	"	"	"	"	"	"
Selenium	ND	0.320	"	"	"	"	"	"
Silver	0.136	0.0246	"	"	"	"	"	"
Zinc	30.4	0.493	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.5	0.0616	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	27.7	0.0616	"	"	"	"	"	"	
Sodium	51.6	0.0616	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.49	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX14@6**  
**2210167-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.2		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.530	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
10/26/22 10:26

**2EX18@6**  
**2210167-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0589	147 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0437	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0498	124 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/26/22 10:26

**2EX18@6**  
**2210167-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0262	78.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.122</b>	0.0100	mg/L	1	BFJ0352	10/14/22	10/15/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX18@6**  
**2210167-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.77	0.244	mg/kg dry	1	BFJ0347	10/14/22	10/14/22	EPA 6020B
Barium	70.9	0.488	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	7.05	0.488	"	"	"	"	"	"
Lead	8.84	0.244	"	"	"	"	"	"
Nickel	7.19	0.488	"	"	"	"	"	"
Selenium	ND	0.317	"	"	"	"	"	"
Silver	0.137	0.0244	"	"	"	"	"	"
Zinc	30.2	0.488	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.6	0.0611	mg/L dry	1	BFJ0495	10/19/22	10/21/22	EPA 6020B	
Magnesium	23.8	0.0611	"	"	"	"	"	"	
Sodium	36.3	0.0611	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.14	0.00100	units	1	BFJ0583	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX18@6**  
**2210167-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.408	0.0100	mmhos/cm	1	BFJ0526	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BFJ0527	10/20/22	10/20/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**C01**  
**2210167-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0332	10/13/22	10/14/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0533	133 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0425	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0334	10/13/22	10/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.9	103 %	30-150		"	"	"	"	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX09@12**  
**2210167-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0521	130 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0453	113 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.8	94.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/26/22 10:26

**2EX09@12**  
**2210167-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0277	83.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX09@12**  
**2210167-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.70	0.209	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	18.4	0.419	"	"	"	"	"	"
Cadmium	ND	0.209	"	"	"	"	"	"
Copper	3.41	0.419	"	"	"	"	"	"
Lead	3.93	0.209	"	"	"	"	"	"
Nickel	3.88	0.419	"	"	"	"	"	"
Selenium	ND	0.272	"	"	"	"	"	"
Silver	0.0272	0.0209	"	"	"	"	"	"
Zinc	14.0	0.419	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.4	0.0523	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	39.4	0.0523	"	"	"	"	"	"	
Sodium	39.2	0.0523	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.06	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX09@12**  
**2210167-09 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.682	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX10@12**  
**2210167-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0548	137 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0434	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0481	120 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.5	91.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX10@12**  
**2210167-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0201</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0132</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.391</b>	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX10@12**  
**2210167-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.09	0.236	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	345	0.472	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
Copper	6.85	0.472	"	"	"	"	"	"
Lead	5.95	0.236	"	"	"	"	"	"
Nickel	6.37	0.472	"	"	"	"	"	"
Selenium	ND	0.307	"	"	"	"	"	"
Silver	0.0383	0.0236	"	"	"	"	"	"
Zinc	25.5	0.472	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.5	0.0590	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	22.9	0.0590	"	"	"	"	"	"	
Sodium	238	0.0590	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.10	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX10@12**  
**2210167-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.23	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX11@12**  
**2210167-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0563	141 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0467	117 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	84.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/26/22 10:26

**2EX11@12**  
**2210167-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0339	102 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.263</b>	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX11@12**  
**2210167-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.972	0.227	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	342	0.454	"	"	"	"	"	"
Cadmium	ND	0.227	"	"	"	"	"	"
Copper	6.61	0.454	"	"	"	"	"	"
Lead	5.92	0.227	"	"	"	"	"	"
Nickel	6.23	0.454	"	"	"	"	"	"
Selenium	ND	0.295	"	"	"	"	"	"
Silver	0.0386	0.0227	"	"	"	"	"	"
Zinc	23.3	0.454	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	306	0.0568	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	182	0.0568	"	"	"	"	"	"	
Sodium	306	0.0568	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.42	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX11@12**  
**2210167-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.06	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX12@12**  
**2210167-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0557	139 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0463	116 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX12@12**  
**2210167-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Boron</b>	<b>0.0687</b>	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX12@12**  
**2210167-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.68	0.249	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	96.7	0.499	"	"	"	"	"	"
Cadmium	ND	0.249	"	"	"	"	"	"
Copper	7.70	0.499	"	"	"	"	"	"
Lead	9.95	0.249	"	"	"	"	"	"
Nickel	8.03	0.499	"	"	"	"	"	"
Selenium	ND	0.324	"	"	"	"	"	"
Silver	0.0574	0.0249	"	"	"	"	"	"
Zinc	32.2	0.499	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	97.3	0.0623	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	48.6	0.0623	"	"	"	"	"	"	
Sodium	67.3	0.0623	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX12@12**  
**2210167-12 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.890	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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

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

**Reported:**  
10/26/22 10:26

**2EX13@12**  
**2210167-13 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0577	144 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0479	120 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX13@12**  
**2210167-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0656</b>	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX13@12**  
**2210167-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.75	0.240	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	87.7	0.479	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	7.09	0.479	"	"	"	"	"	"
Lead	8.51	0.240	"	"	"	"	"	"
Nickel	7.52	0.479	"	"	"	"	"	"
Selenium	ND	0.312	"	"	"	"	"	"
Silver	0.0518	0.0240	"	"	"	"	"	"
Zinc	29.8	0.479	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	103	0.0599	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	60.2	0.0599	"	"	"	"	"	"	
Sodium	83.9	0.0599	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.62	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX13@12**  
**2210167-13 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX14@12**  
**2210167-14 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0477	119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0366	91.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.5	91.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/26/22 10:26

**2EX14@12**  
**2210167-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0177	53.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0280	84.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX14@12**  
**2210167-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.49	0.222	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	32.4	0.445	"	"	"	"	"	"
Cadmium	ND	0.222	"	"	"	"	"	"
Copper	4.20	0.445	"	"	"	"	"	"
Lead	4.96	0.222	"	"	"	"	"	"
Nickel	7.76	0.445	"	"	"	"	"	"
Selenium	ND	0.289	"	"	"	"	"	"
Silver	0.0227	0.0222	"	"	"	"	"	"
Zinc	15.2	0.445	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	83.7	0.0556	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	34.0	0.0556	"	"	"	"	"	"	
Sodium	72.6	0.0556	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.69	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**2EX14@12**  
**2210167-14 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.881	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

Summit Scientific

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX18@12**  
**2210167-15 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0536	134 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0460	115 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/26/22 10:26

**2EX18@12**  
**2210167-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0362	109 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0179</b>	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX18@12**  
**2210167-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.97	0.242	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	80.3	0.485	"	"	"	"	"	"
Cadmium	ND	0.242	"	"	"	"	"	"
Copper	6.80	0.485	"	"	"	"	"	"
Lead	8.64	0.242	"	"	"	"	"	"
Nickel	7.36	0.485	"	"	"	"	"	"
Selenium	ND	0.315	"	"	"	"	"	"
Silver	0.0499	0.0242	"	"	"	"	"	"
Zinc	28.7	0.485	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	71.9	0.0606	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	36.3	0.0606	"	"	"	"	"	"	
Sodium	42.4	0.0606	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.02	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX18@12**  
**2210167-15 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.626	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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

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

**Reported:**  
10/26/22 10:26

**2EX19@14**  
**2210167-16 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0518	129 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0454	113 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.1	88.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX19@14**  
**2210167-16 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0301	90.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX19@14**  
**2210167-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.40	0.231	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	72.0	0.462	"	"	"	"	"	"
Cadmium	ND	0.231	"	"	"	"	"	"
Copper	4.88	0.462	"	"	"	"	"	"
Lead	4.98	0.231	"	"	"	"	"	"
Nickel	5.42	0.462	"	"	"	"	"	"
Selenium	ND	0.300	"	"	"	"	"	"
Silver	0.0268	0.0231	"	"	"	"	"	"
Zinc	19.3	0.462	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.9	0.0578	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	25.2	0.0578	"	"	"	"	"	"	
Sodium	93.8	0.0578	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.22	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/26/22 10:26

**2EX19@14**  
**2210167-16 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.00	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX20@14**  
**2210167-17 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0510	128 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0426	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0460	115 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	87.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX20@14**  
**2210167-17 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0311	93.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0165</b>	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**2EX20@14**  
**2210167-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.25	0.241	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	28.4	0.483	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	4.21	0.483	"	"	"	"	"	"
Lead	4.45	0.241	"	"	"	"	"	"
Nickel	4.87	0.483	"	"	"	"	"	"
Selenium	ND	0.314	"	"	"	"	"	"
Silver	ND	0.0241	"	"	"	"	"	"
Zinc	17.7	0.483	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.7	0.0603	mg/L dry	1	BFJ0450	10/18/22	10/19/22	EPA 6020B	
Magnesium	21.2	0.0603	"	"	"	"	"	"	
Sodium	47.2	0.0603	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.44	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**2EX20@14**  
**2210167-17 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.9		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.508	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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

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

**Reported:**  
10/26/22 10:26

**2EX21@14**  
**2210167-18 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0507	127 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0458	115 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	80.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/26/22 10:26

**2EX21@14**  
**2210167-18 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0308	92.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**2EX21@14**  
**2210167-18 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.31	0.237	mg/kg dry	1	BFJ0323	10/13/22	10/14/22	EPA 6020B
Barium	51.0	0.473	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	4.20	0.473	"	"	"	"	"	"
Lead	4.62	0.237	"	"	"	"	"	"
Nickel	4.66	0.473	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"
Silver	0.0237	0.0237	"	"	"	"	"	"
Zinc	17.5	0.473	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/12/22 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0522	10/20/22	10/21/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/12/22 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.7	0.0592	mg/L dry	1	BFJ0450	10/18/22	10/20/22	EPA 6020B	
Magnesium	23.1	0.0592	"	"	"	"	"	"	
Sodium	36.1	0.0592	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/12/22 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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

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

**Reported:**  
10/26/22 10:26

**2EX21@14**  
**2210167-18 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.468	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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

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

**Reported:**  
10/26/22 10:26

**2EX15@2.5**  
**2210167-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/12/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0411	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/12/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.3	0.0602	mg/L dry	1	BFJ0450	10/18/22	10/20/22	EPA 6020B	
Magnesium	30.8	0.0602	"	"	"	"	"	"	
Sodium	40.4	0.0602	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/12/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BFJ0582	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/12/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BFJ0394	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/12/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.592	0.0100	mmhos/cm	1	BFJ0491	10/19/22	10/19/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

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Project: PDC - Mershon Pad  
Project Number: [none]  
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**Reported:**  
10/26/22 10:26

**2EX15@2.5**  
**2210167-19 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/12/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.96</b>			pH Units	1	BFJ0490	10/19/22	10/19/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0313 - EPA 5030 Soil MS

##### Blank (BFJ0313-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

##### LCS (BFJ0313-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Benzene	0.0789	0.0020	mg/kg	0.100		78.9	70-130			
Toluene	0.0955	0.0050	"	0.100		95.5	70-130			
Ethylbenzene	0.0989	0.0050	"	0.100		98.9	70-130			
m,p-Xylene	0.228	0.010	"	0.200		114	70-130			
o-Xylene	0.0890	0.0050	"	0.100		89.0	70-130			
1,2,4-Trimethylbenzene	0.0845	0.0050	"	0.100		84.5	70-130			
1,3,5-Trimethylbenzene	0.0863	0.0050	"	0.100		86.3	70-130			
Naphthalene	0.0875	0.0038	"	0.100		87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

##### Matrix Spike (BFJ0313-MS1)

Source: 2210166-01

Prepared: 10/12/22 Analyzed: 10/13/22

Benzene	0.0770	0.0020	mg/kg	0.100	ND	77.0	70-130			
Toluene	0.0915	0.0050	"	0.100	ND	91.5	70-130			
Ethylbenzene	0.0978	0.0050	"	0.100	ND	97.8	70-130			
m,p-Xylene	0.226	0.010	"	0.200	ND	113	70-130			
o-Xylene	0.0883	0.0050	"	0.100	ND	88.3	70-130			
1,2,4-Trimethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
1,3,5-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
Naphthalene	0.0965	0.0038	"	0.100	ND	96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0313 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0313-MSD1)		Source: 2210166-01		Prepared: 10/12/22 Analyzed: 10/13/22						
Benzene	0.0783	0.0020	mg/kg	0.100	ND	78.3	70-130	1.70	30	
Toluene	0.0933	0.0050	"	0.100	ND	93.3	70-130	1.92	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	4.91	30	
m,p-Xylene	0.219	0.010	"	0.200	ND	109	70-130	3.28	30	
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130	4.78	30	
1,2,4-Trimethylbenzene	0.0854	0.0050	"	0.100	ND	85.4	70-130	2.85	30	
1,3,5-Trimethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130	4.62	30	
Naphthalene	0.0911	0.0038	"	0.100	ND	91.1	70-130	5.73	30	
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

#### Batch BFJ0332 - EPA 5030 Soil MS

Blank (BFJ0332-BLK1)		Prepared: 10/13/22 Analyzed: 10/14/22								
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0536		"	0.0400		134	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0458		"	0.0400		115	50-150			

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0332 - EPA 5030 Soil MS**

**LCS (BFJ0332-BS1)**

Prepared: 10/13/22 Analyzed: 10/14/22

Benzene	0.0761	0.0020	mg/kg	0.100		76.1	70-130			
Toluene	0.0798	0.0050	"	0.100		79.8	70-130			
Ethylbenzene	0.0804	0.0050	"	0.100		80.4	70-130			
m,p-Xylene	0.164	0.010	"	0.200		81.8	70-130			
o-Xylene	0.0830	0.0050	"	0.100		83.0	70-130			
1,2,4-Trimethylbenzene	0.0879	0.0050	"	0.100		87.9	70-130			
1,3,5-Trimethylbenzene	0.0850	0.0050	"	0.100		85.0	70-130			
Naphthalene	0.0920	0.0038	"	0.100		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0508		"	0.0400		127	50-150			
Surrogate: Toluene-d8	0.0446		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0456		"	0.0400		114	50-150			

**Matrix Spike (BFJ0332-MS1)**

Source: 2210171-01

Prepared: 10/13/22 Analyzed: 10/14/22

Benzene	0.0807	0.0020	mg/kg	0.100	ND	80.7	70-130			
Toluene	0.0775	0.0050	"	0.100	ND	77.5	70-130			
Ethylbenzene	0.0784	0.0050	"	0.100	ND	78.4	70-130			
m,p-Xylene	0.157	0.010	"	0.200	ND	78.3	70-130			
o-Xylene	0.0802	0.0050	"	0.100	ND	80.2	70-130			
1,2,4-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130			
1,3,5-Trimethylbenzene	0.0854	0.0050	"	0.100	ND	85.4	70-130			
Naphthalene	0.0995	0.0038	"	0.100	ND	99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0496		"	0.0400		124	50-150			
Surrogate: Toluene-d8	0.0460		"	0.0400		115	50-150			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	50-150			

**Matrix Spike Dup (BFJ0332-MSD1)**

Source: 2210171-01

Prepared: 10/13/22 Analyzed: 10/14/22

Benzene	0.0772	0.0020	mg/kg	0.100	ND	77.2	70-130	4.48	30	
Toluene	0.0753	0.0050	"	0.100	ND	75.3	70-130	2.95	30	
Ethylbenzene	0.0797	0.0050	"	0.100	ND	79.7	70-130	1.71	30	
m,p-Xylene	0.161	0.010	"	0.200	ND	80.5	70-130	2.76	30	
o-Xylene	0.0818	0.0050	"	0.100	ND	81.8	70-130	2.07	30	
1,2,4-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130	3.20	30	
1,3,5-Trimethylbenzene	0.0878	0.0050	"	0.100	ND	87.8	70-130	2.84	30	
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130	3.15	30	
Surrogate: 1,2-Dichloroethane-d4	0.0489		"	0.0400		122	50-150			
Surrogate: Toluene-d8	0.0455		"	0.0400		114	50-150			
Surrogate: 4-Bromofluorobenzene	0.0447		"	0.0400		112	50-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0314 - EPA 3550A**

**Blank (BFJ0314-BLK1)**

Prepared: 10/12/22 Analyzed: 10/13/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0314-BS1)**

Prepared: 10/12/22 Analyzed: 10/13/22

C10-C28 (DRO)	566	50	mg/kg	500	113	70-130
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**Matrix Spike (BFJ0314-MS1)**

Source: 2210166-01

Prepared: 10/12/22 Analyzed: 10/13/22

C10-C28 (DRO)	544	50	mg/kg	500	19.9	105	70-130
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**Matrix Spike Dup (BFJ0314-MSD1)**

Source: 2210166-01

Prepared: 10/12/22 Analyzed: 10/13/22

C10-C28 (DRO)	574	50	mg/kg	500	19.9	111	70-130	5.29	20
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**Batch BFJ0334 - EPA 3550A**

**Blank (BFJ0334-BLK1)**

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0334-BS1)**

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	635	50	mg/kg	500	127	70-130
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**Matrix Spike (BFJ0334-MS1)**

Source: 2210171-03

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	614	50	mg/kg	500	18.7	119	70-130
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**Matrix Spike Dup (BFJ0334-MSD1)**

Source: 2210171-03

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	567	50	mg/kg	500	18.7	110	70-130	7.95	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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0316 - EPA 5030 Soil MS

##### Blank (BFJ0316-BLK1)

Prepared & Analyzed: 10/13/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.1	40-150			
Surrogate: Fluoranthene-d10	0.0339		"	0.0333		102	40-150			

##### LCS (BFJ0316-BS1)

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0329	0.00500	mg/kg	0.0333		98.7	31-137			
Anthracene	0.0264	0.00500	"	0.0333		79.1	30-120			
Benzo (a) anthracene	0.0235	0.00500	"	0.0333		70.5	30-120			
Benzo (a) pyrene	0.0233	0.00500	"	0.0333		70.0	30-120			
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333		62.8	30-120			
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333		62.7	30-120			
Chrysene	0.0312	0.00500	"	0.0333		93.7	30-120			
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333		74.0	30-120			
Fluoranthene	0.0247	0.00500	"	0.0333		74.1	30-120			
Fluorene	0.0308	0.00500	"	0.0333		92.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0356	0.00500	"	0.0333		107	30-120			
Pyrene	0.0293	0.00500	"	0.0333		88.0	35-142			
1-Methylnaphthalene	0.0120	0.00500	"	0.0333		36.1	35-142			
2-Methylnaphthalene	0.0210	0.00500	"	0.0333		63.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.2	40-150			
Surrogate: Fluoranthene-d10	0.0176		"	0.0333		52.7	40-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0316 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0316-MS1)

Source: 2210166-01

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.8	31-137		
Anthracene	0.0190	0.00500	"	0.0333	ND	56.9	30-120		
Benzo (a) anthracene	0.0241	0.00500	"	0.0333	ND	72.3	30-120		
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120		
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120		
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120		
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	30-120		
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120		
Fluoranthene	0.0283	0.00500	"	0.0333	ND	85.0	30-120		
Fluorene	0.0192	0.00500	"	0.0333	ND	57.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.1	30-120		
Pyrene	0.0205	0.00500	"	0.0333	ND	61.5	35-142		
1-Methylnaphthalene	0.00742	0.00500	"	0.0333	ND	22.3	15-130		
2-Methylnaphthalene	0.0130	0.00500	"	0.0333	ND	38.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.3	40-150		
Surrogate: Fluoranthene-d10	0.0311		"	0.0333		93.2	40-150		

##### Matrix Spike Dup (BFJ0316-MSD1)

Source: 2210166-01

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	60.0	31-137	17.8	30
Anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	7.58	30
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	ND	70.2	30-120	2.95	30
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	6.67	30
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	0.793	30
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	1.34	30
Chrysene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	9.27	30
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	8.86	30
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	30-120	29.3	30
Fluorene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	17.1	30
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	10.2	30
Pyrene	0.0211	0.00500	"	0.0333	ND	63.2	35-142	2.86	30
1-Methylnaphthalene	0.00716	0.00500	"	0.0333	ND	21.5	15-130	3.59	50
2-Methylnaphthalene	0.0125	0.00500	"	0.0333	ND	37.5	15-130	3.59	50
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.4	40-150		
Surrogate: Fluoranthene-d10	0.0227		"	0.0333		68.0	40-150		

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

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

**Reported:**  
10/26/22 10:26

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0387 - EPA 5030 Soil MS

##### Blank (BFJ0387-BLK1)

Prepared & Analyzed: 10/17/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.2	40-150			
Surrogate: Fluoranthene-d10	0.0288		"	0.0333		86.4	40-150			

##### LCS (BFJ0387-BS1)

Prepared & Analyzed: 10/17/22

Acenaphthene	0.0391	0.00500	mg/kg	0.0333	117	31-137
Anthracene	0.0291	0.00500	"	0.0333	87.2	30-120
Benzo (a) anthracene	0.0307	0.00500	"	0.0333	92.2	30-120
Benzo (a) pyrene	0.0325	0.00500	"	0.0333	97.6	30-120
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333	82.7	30-120
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	73.8	30-120
Chrysene	0.0330	0.00500	"	0.0333	98.9	30-120
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	54.3	30-120
Fluoranthene	0.0313	0.00500	"	0.0333	93.8	30-120
Fluorene	0.0276	0.00500	"	0.0333	82.7	30-120
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333	83.0	30-120
Pyrene	0.0367	0.00500	"	0.0333	110	35-142
1-Methylnaphthalene	0.0142	0.00500	"	0.0333	42.5	35-142
2-Methylnaphthalene	0.0383	0.00500	"	0.0333	115	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0415		"	0.0333	124	40-150
Surrogate: Fluoranthene-d10	0.0209		"	0.0333	62.7	40-150

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0387 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0387-MS1)

Source: 2210167-01

Prepared & Analyzed: 10/17/22

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	59.9	31-137		
Anthracene	0.0136	0.00500	"	0.0333	ND	40.8	30-120		
Benzo (a) anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120		
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120		
Benzo (b) fluoranthene	0.0130	0.00500	"	0.0333	ND	38.9	30-120		
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.0	30-120		
Chrysene	0.0176	0.00500	"	0.0333	ND	52.7	30-120		
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.5	30-120		
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120		
Fluorene	0.0155	0.00500	"	0.0333	ND	46.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.4	30-120		
Pyrene	0.0210	0.00500	"	0.0333	ND	63.0	35-142		
1-Methylnaphthalene	0.00684	0.00500	"	0.0333	ND	20.5	15-130		
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0194		"	0.0333		58.1	40-150		
Surrogate: Fluoranthene-d10	0.0224		"	0.0333		67.1	40-150		

##### Matrix Spike Dup (BFJ0387-MSD1)

Source: 2210167-01

Prepared & Analyzed: 10/17/22

Acenaphthene	0.0189	0.00500	mg/kg	0.0333	ND	56.8	31-137	5.23	30
Anthracene	0.0112	0.00500	"	0.0333	ND	33.7	30-120	19.3	30
Benzo (a) anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	15.7	30
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	23.0	30
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	19.9	30
Benzo (k) fluoranthene	0.0124	0.00500	"	0.0333	ND	37.1	30-120	25.6	30
Chrysene	0.0146	0.00500	"	0.0333	ND	43.8	30-120	18.5	30
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	18.5	30
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	20.9	30
Fluorene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	1.68	30
Indeno (1,2,3-cd) pyrene	0.0126	0.00500	"	0.0333	ND	37.9	30-120	20.2	30
Pyrene	0.0186	0.00500	"	0.0333	ND	55.8	35-142	12.1	30
1-Methylnaphthalene	0.00765	0.00500	"	0.0333	ND	22.9	15-130	11.2	50
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	15-130	11.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.6	40-150		
Surrogate: Fluoranthene-d10	0.0176		"	0.0333		52.7	40-150		

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0321 - EPA 3050B**

**Blank (BFJ0321-BLK1)**

Prepared: 10/13/22 Analyzed: 10/14/22

Boron ND 0.0100 mg/L

**LCS (BFJ0321-BS1)**

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 5.65 0.0100 mg/L 5.00 113 80-120

**Duplicate (BFJ0321-DUP1)**

**Source: 2210166-01**

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 0.374 0.0100 mg/L 0.421 11.7 20

**Matrix Spike (BFJ0321-MS1)**

**Source: 2210166-01**

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 5.34 0.0100 mg/L 5.00 0.421 98.3 75-125

**Matrix Spike Dup (BFJ0321-MSD1)**

**Source: 2210166-01**

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 5.62 0.0100 mg/L 5.00 0.421 104 75-125 5.27 25

**Batch BFJ0352 - EPA 3050B**

**Blank (BFJ0352-BLK1)**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron ND 0.0100 mg/L

**LCS (BFJ0352-BS1)**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.49 0.0100 mg/L 5.00 110 80-120

**Duplicate (BFJ0352-DUP1)**

**Source: 2210167-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 0.147 0.0100 mg/L 0.155 5.38 20

**Matrix Spike (BFJ0352-MS1)**

**Source: 2210167-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron 5.51 0.0100 mg/L 5.00 0.155 107 75-125

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFJ0352 - EPA 3050B**

**Matrix Spike Dup (BFJ0352-MSD1)**

**Source: 2210167-01**

Prepared: 10/14/22 Analyzed: 10/15/22

Boron	5.46	0.0100	mg/L	5.00	0.155	106	75-125	0.936	25
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/26/22 10:26

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0323 - EPA 3050B**

**Blank (BFJ0323-BLK1)**

Prepared & Analyzed: 10/13/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0323-BS1)**

Prepared & Analyzed: 10/13/22

Arsenic	42.0	0.200	mg/kg wet	40.0	105	80-120
Barium	41.3	0.400	"	40.0	103	80-120
Cadmium	2.09	0.200	"	2.00	105	80-120
Copper	47.1	0.400	"	40.0	118	80-120
Lead	20.9	0.200	"	20.0	104	80-120
Nickel	43.4	0.400	"	40.0	108	80-120
Selenium	4.44	0.260	"	4.00	111	80-120
Silver	2.11	0.0200	"	2.00	106	80-120
Zinc	44.1	0.400	"	40.0	110	80-120

**Duplicate (BFJ0323-DUP1)**

Source: 2210153-01

Prepared & Analyzed: 10/13/22

Arsenic	1.54	0.228	mg/kg dry	1.53	0.920	20
Barium	91.0	0.456	"	89.8	1.31	20
Cadmium	0.164	0.228	"	0.156	5.13	20
Copper	5.81	0.456	"	5.68	2.29	20
Lead	6.75	0.228	"	6.54	3.20	20
Nickel	6.73	0.456	"	6.62	1.73	20
Selenium	ND	0.297	"	ND		20
Silver	0.0433	0.0228	"	0.0420	3.21	20
Zinc	24.0	0.456	"	23.4	2.67	20

Summit Scientific

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

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

**Reported:**  
10/26/22 10:26

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0323 - EPA 3050B**

Matrix Spike (BFJ0323-MS1)			Source: 2210153-01		Prepared & Analyzed: 10/13/22					
Arsenic	16.1	0.228	mg/kg dry	45.6	1.53	32.0	75-125			QM-05
Barium	125	0.456	"	45.6	89.8	76.5	75-125			
Cadmium	2.22	0.228	"	2.28	0.156	90.5	75-125			
Copper	40.5	0.456	"	45.6	5.68	76.3	75-125			
Lead	27.6	0.228	"	22.8	6.54	92.4	75-125			
Nickel	42.1	0.456	"	45.6	6.62	77.8	75-125			
Selenium	4.86	0.297	"	4.56	ND	107	75-125			
Silver	2.09	0.0228	"	2.28	0.0420	90.0	75-125			
Zinc	58.2	0.456	"	45.6	23.4	76.5	75-125			

Matrix Spike Dup (BFJ0323-MSD1)			Source: 2210153-01		Prepared & Analyzed: 10/13/22					
Arsenic	16.3	0.228	mg/kg dry	45.6	1.53	32.3	75-125	1.11	25	QM-05
Barium	120	0.456	"	45.6	89.8	66.4	75-125	3.78	25	QM-05
Cadmium	2.13	0.228	"	2.28	0.156	86.8	75-125	3.94	25	
Copper	40.1	0.456	"	45.6	5.68	75.5	75-125	0.857	25	
Lead	26.6	0.228	"	22.8	6.54	88.0	75-125	3.72	25	
Nickel	45.4	0.456	"	45.6	6.62	85.0	75-125	7.42	25	
Selenium	5.03	0.297	"	4.56	ND	110	75-125	3.36	25	
Silver	2.01	0.0228	"	2.28	0.0420	86.2	75-125	4.25	25	
Zinc	59.2	0.456	"	45.6	23.4	78.6	75-125	1.63	25	

**Batch BFJ0347 - EPA 3050B**

Blank (BFJ0347-BLK1)			Prepared & Analyzed: 10/14/22							
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0347 - EPA 3050B**

**LCS (BFJ0347-BS1)**

Prepared & Analyzed: 10/14/22

Arsenic	41.6	0.200	mg/kg wet	40.0		104	80-120
Barium	37.6	0.400	"	40.0		94.1	80-120
Cadmium	2.00	0.200	"	2.00		100	80-120
Copper	34.9	0.400	"	40.0		87.3	80-120
Lead	23.2	0.200	"	20.0		116	80-120
Nickel	39.3	0.400	"	40.0		98.1	80-120
Selenium	3.60	0.260	"	4.00		90.0	80-120
Silver	1.72	0.0200	"	2.00		85.9	80-120
Zinc	42.1	0.400	"	40.0		105	80-120

**Duplicate (BFJ0347-DUP1)**

Source: 2210095-01

Prepared & Analyzed: 10/14/22

Arsenic	1.45	0.231	mg/kg dry		1.44		0.320	20
Barium	55.7	0.463	"		55.5		0.337	20
Cadmium	0.157	0.231	"		0.151		4.20	20
Copper	5.18	0.463	"		5.09		1.71	20
Lead	6.94	0.231	"		7.01		1.07	20
Nickel	5.78	0.463	"		5.66		2.03	20
Selenium	ND	0.301	"		ND			20
Silver	0.113	0.0231	"		0.126		10.8	20
Zinc	24.0	0.463	"		23.6		1.74	20

**Matrix Spike (BFJ0347-MS1)**

Source: 2210095-01

Prepared & Analyzed: 10/14/22

Arsenic	43.2	0.231	mg/kg dry	46.3	1.44	90.2	75-125
Barium	108	0.463	"	46.3	55.5	113	75-125
Cadmium	2.96	0.231	"	2.31	0.151	121	75-125
Copper	52.0	0.463	"	46.3	5.09	101	75-125
Lead	35.9	0.231	"	23.1	7.01	125	75-125
Nickel	52.8	0.463	"	46.3	5.66	102	75-125
Selenium	3.82	0.301	"	4.63	ND	82.6	75-125
Silver	2.47	0.0231	"	2.31	0.126	101	75-125
Zinc	73.4	0.463	"	46.3	23.6	108	75-125

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0347 - EPA 3050B**

Matrix Spike Dup (BFJ0347-MSD1)		Source: 2210095-01			Prepared & Analyzed: 10/14/22					
Arsenic	43.2	0.231	mg/kg dry	46.3	1.44	90.1	75-125	0.0418	25	
Barium	107	0.463	"	46.3	55.5	112	75-125	0.481	25	
Cadmium	2.95	0.231	"	2.31	0.151	121	75-125	0.110	25	
Copper	51.8	0.463	"	46.3	5.09	101	75-125	0.292	25	
Lead	35.8	0.231	"	23.1	7.01	124	75-125	0.468	25	
Nickel	52.7	0.463	"	46.3	5.66	102	75-125	0.291	25	
Selenium	3.84	0.301	"	4.63	ND	82.9	75-125	0.423	25	
Silver	2.48	0.0231	"	2.31	0.126	102	75-125	0.486	25	
Zinc	72.8	0.463	"	46.3	23.6	106	75-125	0.942	25	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0522 - 3060A Mod**

**Blank (BFJ0522-BLK1)**

Prepared: 10/20/22 Analyzed: 10/21/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0522-BS1)**

Prepared: 10/20/22 Analyzed: 10/21/22

Chromium, Hexavalent 24.8 0.30 mg/kg wet 25.0 99.0 80-120

**Duplicate (BFJ0522-DUP1)**

**Source: 2210281-03**

Prepared: 10/20/22 Analyzed: 10/21/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0522-MS1)**

**Source: 2210281-03**

Prepared: 10/20/22 Analyzed: 10/21/22

Chromium, Hexavalent 25.2 0.30 mg/kg dry 26.4 ND 95.6 75-125

**Matrix Spike Dup (BFJ0522-MSD1)**

**Source: 2210281-03**

Prepared: 10/20/22 Analyzed: 10/21/22

Chromium, Hexavalent 26.6 0.30 mg/kg dry 26.4 ND 101 75-125 5.49 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0450 - General Preparation**

**Blank (BFJ0450-BLK1)**

Prepared: 10/18/22 Analyzed: 10/19/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0450-BS1)**

Prepared: 10/18/22 Analyzed: 10/19/22

Calcium	6.04	0.0500	mg/L wet	5.00	121	70-130
Magnesium	6.24	0.0500	"	5.00	125	70-130
Sodium	5.88	0.0500	"	5.00	118	70-130

**Batch BFJ0495 - General Preparation**

**Blank (BFJ0495-BLK1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0495-BS1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.38	0.0500	"	5.00	108	70-130
Sodium	5.03	0.0500	"	5.00	101	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

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

**Summit Scientific**

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

**Batch BFJ0394 - General Preparation**

Duplicate (BFJ0394-DUP1)		Source: 2210167-01		Prepared: 10/17/22 Analyzed: 10/18/22	
% Solids	77.8		%	77.9	0.0779 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0491 - General Preparation**

**Blank (BFJ0491-BLK1)**

Prepared & Analyzed: 10/19/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0491-BS1)**

Prepared & Analyzed: 10/19/22

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.5 95-105

**Duplicate (BFJ0491-DUP1)**

**Source: 2210167-09**

Prepared & Analyzed: 10/19/22

Specific Conductance (EC) 0.682 0.0100 mmhos/cm 0.682 0.00 20

**Batch BFJ0526 - General Preparation**

**Blank (BFJ0526-BLK1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0526-BS1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BFJ0526-DUP1)**

**Source: 2210095-01**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.837 0.0100 mmhos/cm 0.845 0.892 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0490 - General Preparation**

**LCS (BFJ0490-BS1)**

Prepared & Analyzed: 10/19/22

pH	9.01		pH Units	9.18	98.1	95-105
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**Duplicate (BFJ0490-DUP1)**

**Source: 2210167-09**

Prepared & Analyzed: 10/19/22

pH	8.05		pH Units	8.05	0.00	20
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**Batch BFJ0527 - General Preparation**

**LCS (BFJ0527-BS1)**

Prepared & Analyzed: 10/20/22

pH	8.96		pH Units	9.18	97.6	95-105
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**Duplicate (BFJ0527-DUP1)**

**Source: 2210095-01**

Prepared & Analyzed: 10/20/22

pH	7.73		pH Units	7.73	0.00	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/26/22 10:26

### Notes and Definitions

QM-05     The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.

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 28, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210384

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/22 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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2EX23@6	2210384-01	Soil	10/21/22 10:00	10/21/22 16:39
2EX23@12	2210384-02	Soil	10/21/22 10:30	10/21/22 16:39
2EX24@6	2210384-03	Soil	10/21/22 10:45	10/21/22 16:39
2EX24@12	2210384-04	Soil	10/21/22 11:00	10/21/22 16:39
2EX25@6	2210384-05	Soil	10/21/22 11:15	10/21/22 16:39
2EX25@12	2210384-06	Soil	10/21/22 11:30	10/21/22 16:39
2EX26@6	2210384-07	Soil	10/21/22 11:45	10/21/22 16:39
2EX26@12	2210384-08	Soil	10/21/22 12:00	10/21/22 16:39
2EX27@6	2210384-09	Soil	10/21/22 12:15	10/21/22 16:39
2EX27@12	2210384-10	Soil	10/21/22 12:30	10/21/22 16:39
2EX28@6	2210384-11	Soil	10/21/22 12:45	10/21/22 16:39
2EX28@12	2210384-12	Soil	10/21/22 13:00	10/21/22 16:39
2EX29@6	2210384-13	Soil	10/21/22 13:15	10/21/22 16:39
2EX29@12	2210384-14	Soil	10/21/22 13:30	10/21/22 16:39
CO2	2210384-15	Soil	10/21/22 14:00	10/21/22 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

S<sub>2</sub>

2210384.1

Bill to PPC

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 2

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com, PDC EHS

City/State/Zip:

Phone: 412-337-5122

Project Name: Mershon Pad

Sampler Name: Nick Yowd

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1								
1	ZEX2366	10/21/22	1000	2			X			X				X							See notes
2	ZEX23612		1030																		
3	<del>ZEX2466</del>		1045																		
4	ZEX24612		1100																		
5	ZEX2566		1115																		
6	ZEX25612		1130																		
7	ZEX2666		1145																		
8	ZEX26612		1200																		
9	ZEX2766		1215																		
10	ZEX27612	✓	1230	✓				✓						✓							

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/21/22 1530</u>	Received by: <u>Shere Bach</u>	Date/Time: <u>10/24/22 16:30</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	72 hours <input type="checkbox"/>
				24 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>26.5</u>	Corrected Temperature _____	HNO <sub>3</sub> lot # _____	Sample Integrity:	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standard Table 915-1  Same day BTEX, TMS TPH
IR gun correction: _____	IR gun #: _____				



# Summit Scientific

2270384.2

Bill to PDC

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 2 of 2

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradaconsulting.com, PDC BHS

City/State/Zip:

Phone: 412-337-5122

Project Name: Meridian Pad

Sampler Name: Nick Young

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1								
1	ZEX28G 6	10/21/22	1245	2			X			X											
2	ZEX28G 12	↓	1300	↓			↓			↓											
3	ZEX29G 6	↓	1315	↓			↓			↓											
4	ZEX29G 12	↓	1330	↓			↓			↓											
5	CO2	↓	1400	↓			↓			↓											
6	ZEX30G 2.5	↓	1415	↓			↓			↓										Hold	
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/21/22 1530</u>	Received by: <u>Sheree Baln</u>	Date/Time: <u>10/20/22 16:39</u>	Turn Around Time (Check)	Same Day <u>X</u> 72 hours 24 hours _____ Standard <u>X</u> 48 hours _____	Notes: Standard Table 915-1 Sameday BTEXN, TMBs TPH
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
Temperature Upon Receipt: _____	Corrected Temperature _____	HNO3 lot # _____	Samples Intact: Yes No			
IR gun correction: _____	IR gun #: _____					

S<sub>2</sub>

2210384

## Sample Receipt Checklist

S2 Work Order#

Client: Entrada Consulting Group <sup>Group</sup> ~~Group~~ Client Project ID: Meridian Pad  
 Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

☒ ☐ ☐ ☐ ☐

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

Temp (°C) 26.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<u>on ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>24 hour</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):

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

S<sub>2</sub>

Custodian Printed Name

10/21/22 16:39

Date/Time



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX23@6**  
**2210384-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**2EX23@6**  
**2210384-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		88.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0557</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX23@6**  
**2210384-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.70	0.235	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	83.5	0.471	"	"	"	"	"	"
Cadmium	ND	0.235	"	"	"	"	"	"
Copper	7.32	0.471	"	"	"	"	"	"
Lead	8.32	0.235	"	"	"	"	"	"
Nickel	6.65	0.471	"	"	"	"	"	"
Selenium	ND	0.306	"	"	"	"	"	"
Silver	0.249	0.0235	"	"	"	"	"	"
Zinc	30.6	0.471	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.6	0.0588	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	46.4	0.0588	"	"	"	"	"	"	
Sodium	59.4	0.0588	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.37	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/28/22 12:36

**2EX23@6**  
**2210384-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.849	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX23@12**  
**2210384-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		83.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX23@12**  
**2210384-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		87.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0421</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX23@12**  
**2210384-02 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	6.96	0.251	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	98.6	0.502	"	"	"	"	"	"
Cadmium	ND	0.251	"	"	"	"	"	"
Copper	5.91	0.502	"	"	"	"	"	"
Lead	6.43	0.251	"	"	"	"	"	"
Nickel	6.70	0.502	"	"	"	"	"	"
Selenium	ND	0.326	"	"	"	"	"	"
Silver	0.264	0.0251	"	"	"	"	"	"
Zinc	25.6	0.502	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	347	0.0627	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	102	0.0627	"	"	"	"	"	"	
Sodium	72.1	0.0627	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.875	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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

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

**Reported:**  
10/28/22 12:36

**2EX23@12**  
**2210384-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.10	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX24@6**  
**2210384-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**2EX24@6**  
**2210384-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		83.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0424</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX24@6**  
**2210384-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	6.09	0.247	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	82.0	0.493	"	"	"	"	"	"
Cadmium	ND	0.247	"	"	"	"	"	"
Copper	7.73	0.493	"	"	"	"	"	"
Lead	8.97	0.247	"	"	"	"	"	"
Nickel	8.03	0.493	"	"	"	"	"	"
Selenium	ND	0.321	"	"	"	"	"	"
Silver	0.276	0.0247	"	"	"	"	"	"
Zinc	33.6	0.493	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.0	0.0617	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	43.3	0.0617	"	"	"	"	"	"	
Sodium	58.3	0.0617	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.40	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/28/22 12:36

**2EX24@6**  
**2210384-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.759	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX24@12**  
**2210384-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		120 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX24@12**  
**2210384-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		95.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0301</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX24@12**  
**2210384-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.69	0.223	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	42.6	0.446	"	"	"	"	"	"
Cadmium	ND	0.223	"	"	"	"	"	"
Copper	3.97	0.446	"	"	"	"	"	"
Lead	3.85	0.223	"	"	"	"	"	"
Nickel	3.87	0.446	"	"	"	"	"	"
Selenium	ND	0.290	"	"	"	"	"	"
Silver	0.222	0.0223	"	"	"	"	"	"
Zinc	16.3	0.446	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	523	0.0558	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	138	0.0558	"	"	"	"	"	"	
Sodium	53.2	0.0558	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.535	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/28/22 12:36

**2EX24@12**  
**2210384-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.89	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.63		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

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

**Reported:**  
10/28/22 12:36

**2EX25@6**  
**2210384-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		122 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		88.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**2EX25@6**  
**2210384-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		88.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0584</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX25@6**  
**2210384-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.09	0.231	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	52.3	0.463	"	"	"	"	"	"
Cadmium	ND	0.231	"	"	"	"	"	"
Copper	7.12	0.463	"	"	"	"	"	"
Lead	7.36	0.231	"	"	"	"	"	"
Nickel	7.06	0.463	"	"	"	"	"	"
Selenium	ND	0.301	"	"	"	"	"	"
Silver	0.252	0.0231	"	"	"	"	"	"
Zinc	29.9	0.463	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.9	0.0578	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	27.0	0.0578	"	"	"	"	"	"	
Sodium	47.5	0.0578	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.38	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/28/22 12:36

**2EX25@6**  
**2210384-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.636	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX25@12**  
**2210384-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		80.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**2EX25@12**  
**2210384-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		90.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0238</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX25@12**  
**2210384-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	5.04	0.217	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	40.8	0.433	"	"	"	"	"	"
Cadmium	ND	0.217	"	"	"	"	"	"
Copper	4.40	0.433	"	"	"	"	"	"
Lead	4.73	0.217	"	"	"	"	"	"
Nickel	4.73	0.433	"	"	"	"	"	"
Selenium	ND	0.282	"	"	"	"	"	"
Silver	0.242	0.0217	"	"	"	"	"	"
Zinc	17.2	0.433	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.9	0.0541	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	33.2	0.0541	"	"	"	"	"	"	
Sodium	35.5	0.0541	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.938	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX25@12**  
**2210384-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.691	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

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

**Reported:**  
10/28/22 12:36

**2EX26@6**  
**2210384-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		130 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX26@6**  
**2210384-07 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		102 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		83.9 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0457</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

#### Total Metals by EPA 6020B

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX26@6**  
**2210384-07 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	4.79	0.240	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	70.0	0.480	"	"	"	"	"	"
Cadmium	0.265	0.240	"	"	"	"	"	"
Copper	8.26	0.480	"	"	"	"	"	"
Lead	9.06	0.240	"	"	"	"	"	"
Nickel	7.13	0.480	"	"	"	"	"	"
Selenium	ND	0.312	"	"	"	"	"	"
Silver	0.269	0.0240	"	"	"	"	"	"
Zinc	34.6	0.480	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/21/22 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/21/22 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.0	0.0600	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	35.4	0.0600	"	"	"	"	"	"	
Sodium	50.0	0.0600	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/21/22 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.33	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/22 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX26@6**  
**2210384-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.3	%	1	BFJ0627	10/23/22	10/24/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.680	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX26@12**  
**2210384-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	170	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**2EX26@12**  
**2210384-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0791</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX26@12**  
**2210384-08 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	6.12	0.244	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	89.5	0.488	"	"	"	"	"	"
Cadmium	0.285	0.244	"	"	"	"	"	"
Copper	9.01	0.488	"	"	"	"	"	"
Lead	10.3	0.244	"	"	"	"	"	"
Nickel	8.90	0.488	"	"	"	"	"	"
Selenium	ND	0.317	"	"	"	"	"	"
Silver	0.299	0.0244	"	"	"	"	"	"
Zinc	37.4	0.488	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/21/22 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/21/22 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.7	0.0611	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	49.8	0.0611	"	"	"	"	"	"	
Sodium	56.4	0.0611	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/21/22 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/22 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX26@12**  
**2210384-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.9	%	1	BFJ0627	10/23/22	10/24/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.920	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX27@6**  
**2210384-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		127 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		129 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		93.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX27@6**  
**2210384-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		95.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0375</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX27@6**  
**2210384-09 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	3.93	0.240	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	46.1	0.480	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	6.37	0.480	"	"	"	"	"	"
Lead	6.08	0.240	"	"	"	"	"	"
Nickel	8.76	0.480	"	"	"	"	"	"
Selenium	ND	0.312	"	"	"	"	"	"
Silver	0.261	0.0240	"	"	"	"	"	"
Zinc	28.8	0.480	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/21/22 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/21/22 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.5	0.0599	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	24.7	0.0599	"	"	"	"	"	"	
Sodium	45.8	0.0599	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/21/22 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.38	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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

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

**Reported:**  
10/28/22 12:36

**2EX27@6**  
**2210384-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.566	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

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

**Reported:**  
10/28/22 12:36

**2EX27@12**  
**2210384-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		82.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**2EX27@12**  
**2210384-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		89.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX27@12**  
**2210384-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.61	0.219	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	46.1	0.437	"	"	"	"	"	"
Cadmium	ND	0.219	"	"	"	"	"	"
Copper	4.05	0.437	"	"	"	"	"	"
Lead	4.36	0.219	"	"	"	"	"	"
Nickel	4.44	0.437	"	"	"	"	"	"
Selenium	ND	0.284	"	"	"	"	"	"
Silver	0.231	0.0219	"	"	"	"	"	"
Zinc	16.4	0.437	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	430	0.0546	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	159	0.0546	"	"	"	"	"	"	
Sodium	57.9	0.0546	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.606	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/28/22 12:36

**2EX27@12**  
**2210384-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.82	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

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

**Reported:**  
10/28/22 12:36

**2EX28@6**  
**2210384-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		121 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		93.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX28@6**  
**2210384-11 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		87.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.6 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0533</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

#### Total Metals by EPA 6020B

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX28@6**  
**2210384-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.51	0.231	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	55.0	0.462	"	"	"	"	"	"
Cadmium	ND	0.231	"	"	"	"	"	"
Copper	5.96	0.462	"	"	"	"	"	"
Lead	5.42	0.231	"	"	"	"	"	"
Nickel	5.93	0.462	"	"	"	"	"	"
Selenium	ND	0.300	"	"	"	"	"	"
Silver	0.250	0.0231	"	"	"	"	"	"
Zinc	23.2	0.462	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.8	0.0577	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	34.5	0.0577	"	"	"	"	"	"	
Sodium	45.4	0.0577	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.23	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
10/28/22 12:36

**2EX28@6**  
**2210384-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.626	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX28@12**  
**2210384-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		126 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX28@12**  
**2210384-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		93.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0222</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX28@12**  
**2210384-12 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	4.64	0.237	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	44.9	0.473	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	4.61	0.473	"	"	"	"	"	"
Lead	4.34	0.237	"	"	"	"	"	"
Nickel	5.39	0.473	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"
Silver	0.243	0.0237	"	"	"	"	"	"
Zinc	19.6	0.473	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	552	0.0592	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	90.6	0.0592	"	"	"	"	"	"	
Sodium	55.0	0.0592	"	"	"	"	"	"	

#### Calculated Analysis

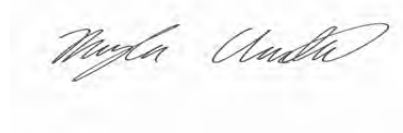
Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.572	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX28@12**  
**2210384-12 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.78	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX29@6**  
**2210384-13 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/22/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		124 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX29@6**  
**2210384-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		89.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0475</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX29@6**  
**2210384-13 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	7.54	0.242	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	81.1	0.485	"	"	"	"	"	"
Cadmium	0.257	0.242	"	"	"	"	"	"
Copper	8.54	0.485	"	"	"	"	"	"
Lead	8.70	0.242	"	"	"	"	"	"
Nickel	8.73	0.485	"	"	"	"	"	"
Selenium	ND	0.315	"	"	"	"	"	"
Silver	0.297	0.0242	"	"	"	"	"	"
Zinc	34.6	0.485	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/21/22 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 10/21/22 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.2	0.0606	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	43.0	0.0606	"	"	"	"	"	"	
Sodium	56.6	0.0606	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 10/21/22 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/22 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
10/28/22 12:36

**2EX29@6**  
**2210384-13 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.5	%	1	BFJ0627	10/23/22	10/24/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.794	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

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

**Reported:**  
10/28/22 12:36

**2EX29@12**  
**2210384-14 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**2EX29@12**  
**2210384-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0494</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**2EX29@12**  
**2210384-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	5.11	0.227	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	58.1	0.453	"	"	"	"	"	"
Cadmium	ND	0.227	"	"	"	"	"	"
Copper	6.50	0.453	"	"	"	"	"	"
Lead	5.46	0.227	"	"	"	"	"	"
Nickel	5.74	0.453	"	"	"	"	"	"
Selenium	ND	0.295	"	"	"	"	"	"
Silver	0.242	0.0227	"	"	"	"	"	"
Zinc	23.6	0.453	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	123	0.0567	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	65.0	0.0567	"	"	"	"	"	"	
Sodium	48.5	0.0567	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.880	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
10/28/22 12:36

**2EX29@12**  
**2210384-14 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.2		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.15	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

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

**Reported:**  
10/28/22 12:36

**CO2**  
**2210384-15 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0608	10/21/22	10/23/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0609	10/21/22	10/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		98.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
10/28/22 12:36

**CO2**  
**2210384-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0751	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		89.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0676</b>	0.0100	mg/L	1	BFJ0617	10/23/22	10/25/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**CO2**  
**2210384-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.95	0.227	mg/kg dry	1	BFJ0616	10/23/22	10/24/22	EPA 6020B
Barium	136	0.453	"	"	"	"	"	"
Cadmium	ND	0.227	"	"	"	"	"	"
Copper	6.56	0.453	"	"	"	"	"	"
Lead	6.76	0.227	"	"	"	"	"	"
Nickel	6.29	0.453	"	"	"	"	"	"
Selenium	ND	0.295	"	"	"	"	"	"
Silver	0.261	0.0227	"	"	"	"	"	"
Zinc	26.4	0.453	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0682	10/25/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	84.3	0.0566	mg/L dry	1	BFJ0733	10/26/22	10/27/22	EPA 6020B	
Magnesium	55.3	0.0566	"	"	"	"	"	"	
Sodium	64.0	0.0566	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.33	0.00100	units	1	BFJ0807	10/28/22	10/28/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**CO2**  
**2210384-15 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BFJ0627	10/23/22	10/24/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.05	0.0100	mmhos/cm	1	BFJ0774	10/27/22	10/27/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/21/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BFJ0775	10/27/22	10/27/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0608 - EPA 5030 Soil MS

##### Blank (BFJ0608-BLK1)

Prepared: 10/21/22 Analyzed: 10/22/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0442		"	0.0400		111	50-150			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	50-150			

##### LCS (BFJ0608-BS1)

Prepared: 10/21/22 Analyzed: 10/22/22

Benzene	0.0732	0.0020	mg/kg	0.100		73.2	70-130			
Toluene	0.0758	0.0050	"	0.100		75.8	70-130			
Ethylbenzene	0.0760	0.0050	"	0.100		76.0	70-130			
m,p-Xylene	0.153	0.010	"	0.200		76.5	70-130			
o-Xylene	0.0807	0.0050	"	0.100		80.7	70-130			
1,2,4-Trimethylbenzene	0.0881	0.0050	"	0.100		88.1	70-130			
1,3,5-Trimethylbenzene	0.0868	0.0050	"	0.100		86.8	70-130			
Naphthalene	0.122	0.0038	"	0.100		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0441		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

##### Matrix Spike (BFJ0608-MS1)

Source: 2210384-01

Prepared: 10/21/22 Analyzed: 10/22/22

Benzene	0.0786	0.0020	mg/kg	0.100	ND	78.6	70-130			
Toluene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130			
m,p-Xylene	0.152	0.010	"	0.200	ND	75.9	70-130			
o-Xylene	0.0813	0.0050	"	0.100	ND	81.3	70-130			
1,2,4-Trimethylbenzene	0.0912	0.0050	"	0.100	ND	91.2	70-130			
1,3,5-Trimethylbenzene	0.0881	0.0050	"	0.100	ND	88.1	70-130			
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0457		"	0.0400		114	50-150			
Surrogate: Toluene-d8	0.0438		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0443		"	0.0400		111	50-150			

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

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

**Reported:**  
10/28/22 12:36

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0608 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0608-MSD1)		Source: 2210384-01			Prepared: 10/21/22 Analyzed: 10/22/22					
Benzene	0.0763	0.0020	mg/kg	0.100	ND	76.3	70-130	3.02	30	
Toluene	0.0760	0.0050	"	0.100	ND	76.0	70-130	5.23	30	
Ethylbenzene	0.0710	0.0050	"	0.100	ND	71.0	70-130	5.99	30	
m,p-Xylene	0.142	0.010	"	0.200	ND	70.9	70-130	6.80	30	
o-Xylene	0.0773	0.0050	"	0.100	ND	77.3	70-130	5.11	30	
1,2,4-Trimethylbenzene	0.0863	0.0050	"	0.100	ND	86.3	70-130	5.51	30	
1,3,5-Trimethylbenzene	0.0823	0.0050	"	0.100	ND	82.3	70-130	6.76	30	
Naphthalene	0.112	0.0038	"	0.100	ND	112	70-130	2.98	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0451		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0445		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0429		"	0.0400		107	50-150			

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

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

**Reported:**  
10/28/22 12:36

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0609 - EPA 3550A**

**Blank (BFJ0609-BLK1)**

Prepared & Analyzed: 10/21/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.6		"	12.5	101	30-150				

**LCS (BFJ0609-BS1)**

Prepared & Analyzed: 10/21/22

C10-C28 (DRO)	573	50	mg/kg	500	115	70-130				
Surrogate: o-Terphenyl	14.2		"	12.5	114	30-150				

**Matrix Spike (BFJ0609-MS1)**

Source: 2210384-01

Prepared: 10/21/22 Analyzed: 10/22/22

C10-C28 (DRO)	400	50	mg/kg	500	27.0	74.6	70-130			
Surrogate: o-Terphenyl	12.4		"	12.5	99.6	30-150				

**Matrix Spike Dup (BFJ0609-MSD1)**

Source: 2210384-01

Prepared: 10/21/22 Analyzed: 10/22/22

C10-C28 (DRO)	465	50	mg/kg	500	27.0	87.6	70-130	15.0	20	
Surrogate: o-Terphenyl	13.3		"	12.5	106	30-150				

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

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

**Reported:**  
10/28/22 12:36

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFJ0751 - EPA 5030 Soil MS

##### Blank (BFJ0751-BLK1)

Prepared & Analyzed: 10/27/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0379		"	0.0333		114		40-150			
Surrogate: Fluoranthene-d10	0.0336		"	0.0333		101		40-150			

##### LCS (BFJ0751-BS1)

Prepared & Analyzed: 10/27/22

Acenaphthene	0.0360	0.00500	mg/kg	0.0333		108		31-137			
Anthracene	0.0374	0.00500	"	0.0333		112		30-120			
Benzo (a) anthracene	0.0341	0.00500	"	0.0333		102		30-120			
Benzo (a) pyrene	0.0393	0.00500	"	0.0333		118		30-120			
Benzo (b) fluoranthene	0.0372	0.00500	"	0.0333		112		30-120			
Benzo (k) fluoranthene	0.0338	0.00500	"	0.0333		101		30-120			
Chrysene	0.0329	0.00500	"	0.0333		98.8		30-120			
Dibenz (a,h) anthracene	0.0370	0.00500	"	0.0333		111		30-120			
Fluoranthene	0.0371	0.00500	"	0.0333		111		30-120			
Fluorene	0.0376	0.00500	"	0.0333		113		30-120			
Indeno (1,2,3-cd) pyrene	0.0368	0.00500	"	0.0333		110		30-120			
Pyrene	0.0349	0.00500	"	0.0333		105		35-142			
1-Methylnaphthalene	0.0368	0.00500	"	0.0333		110		35-142			
2-Methylnaphthalene	0.0363	0.00500	"	0.0333		109		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0385		"	0.0333		115		40-150			
Surrogate: Fluoranthene-d10	0.0363		"	0.0333		109		40-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

### PAH by EPA Method 8270D SIM - Quality Control

#### Summit Scientific

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

#### Batch BFJ0751 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0751-MS1)

Source: 2210384-01

Prepared & Analyzed: 10/27/22

Acenaphthene	0.0240	0.00500	mg/kg	0.0333	ND	71.9	31-137		
Anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120		
Benzo (a) anthracene	0.0206	0.00500	"	0.0333	ND	61.9	30-120		
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120		
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	ND	73.0	30-120		
Benzo (k) fluoranthene	0.0240	0.00500	"	0.0333	ND	72.1	30-120		
Chrysene	0.0189	0.00500	"	0.0333	ND	56.6	30-120		
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333	ND	65.8	30-120		
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.1	30-120		
Fluorene	0.0205	0.00500	"	0.0333	ND	61.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0206	0.00500	"	0.0333	ND	61.7	30-120		
Pyrene	0.0205	0.00500	"	0.0333	ND	61.4	35-142		
1-Methylnaphthalene	0.0226	0.00500	"	0.0333	ND	67.8	15-130		
2-Methylnaphthalene	0.0234	0.00500	"	0.0333	ND	70.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0224		"	0.0333		67.3	40-150		
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		65.9	40-150		

##### Matrix Spike Dup (BFJ0751-MSD1)

Source: 2210384-01

Prepared & Analyzed: 10/27/22

Acenaphthene	0.0294	0.00500	mg/kg	0.0333	ND	88.2	31-137	20.4	30
Anthracene	0.0238	0.00500	"	0.0333	ND	71.5	30-120	12.4	30
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.5	30-120	8.61	30
Benzo (a) pyrene	0.0239	0.00500	"	0.0333	ND	71.8	30-120	10.4	30
Benzo (b) fluoranthene	0.0270	0.00500	"	0.0333	ND	81.0	30-120	10.4	30
Benzo (k) fluoranthene	0.0270	0.00500	"	0.0333	ND	80.9	30-120	11.5	30
Chrysene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	10.1	30
Dibenz (a,h) anthracene	0.0246	0.00500	"	0.0333	ND	73.8	30-120	11.5	30
Fluoranthene	0.0251	0.00500	"	0.0333	ND	75.2	30-120	14.4	30
Fluorene	0.0275	0.00500	"	0.0333	ND	82.5	30-120	29.4	30
Indeno (1,2,3-cd) pyrene	0.0232	0.00500	"	0.0333	ND	69.5	30-120	11.8	30
Pyrene	0.0232	0.00500	"	0.0333	ND	69.5	35-142	12.3	30
1-Methylnaphthalene	0.0262	0.00500	"	0.0333	ND	78.7	15-130	14.9	50
2-Methylnaphthalene	0.0278	0.00500	"	0.0333	ND	83.5	15-130	17.4	50
Surrogate: 2-Methylnaphthalene-d10	0.0251		"	0.0333		75.2	40-150		
Surrogate: Fluoranthene-d10	0.0254		"	0.0333		76.1	40-150		

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0617 - EPA 3050B**

**Blank (BFJ0617-BLK1)**

Prepared: 10/23/22 Analyzed: 10/24/22

Boron ND 0.0100 mg/L

**LCS (BFJ0617-BS1)**

Prepared: 10/23/22 Analyzed: 10/24/22

Boron 4.83 0.0100 mg/L 5.00 96.6 80-120

**Duplicate (BFJ0617-DUP1)**

Source: 2210382-01

Prepared: 10/23/22 Analyzed: 10/25/22

Boron 0.241 0.0100 mg/L 0.244 1.43 20

**Matrix Spike (BFJ0617-MS1)**

Source: 2210382-01

Prepared: 10/23/22 Analyzed: 10/25/22

Boron 5.12 0.0100 mg/L 5.00 0.244 97.5 75-125

**Matrix Spike Dup (BFJ0617-MSD1)**

Source: 2210382-01

Prepared: 10/23/22 Analyzed: 10/25/22

Boron 5.16 0.0100 mg/L 5.00 0.244 98.3 75-125 0.787 25

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

### Total Metals by EPA 6020B - Quality Control

#### Summit Scientific

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

#### Batch BFJ0616 - EPA 3050B

##### Blank (BFJ0616-BLK1)

Prepared: 10/23/22 Analyzed: 10/24/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

##### LCS (BFJ0616-BS1)

Prepared: 10/23/22 Analyzed: 10/24/22

Arsenic	37.0	0.200	mg/kg wet	40.0	92.4	80-120
Barium	33.7	0.400	"	40.0	84.2	80-120
Cadmium	1.70	0.200	"	2.00	85.0	80-120
Copper	41.5	0.400	"	40.0	104	80-120
Lead	19.9	0.200	"	20.0	99.4	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Selenium	4.74	0.260	"	4.00	119	80-120
Silver	1.97	0.0200	"	2.00	98.3	80-120
Zinc	40.2	0.400	"	40.0	100	80-120

##### Duplicate (BFJ0616-DUP1)

Source: 2210384-01

Prepared: 10/23/22 Analyzed: 10/24/22

Arsenic	4.73	0.235	mg/kg dry	4.70	0.549	20
Barium	77.0	0.471	"	83.5	8.09	20
Cadmium	0.214	0.235	"	0.233	8.84	20
Copper	7.19	0.471	"	7.32	1.84	20
Lead	7.64	0.235	"	8.32	8.52	20
Nickel	6.65	0.471	"	6.65	0.0708	20
Selenium	ND	0.306	"	ND		20
Silver	0.261	0.0235	"	0.249	4.61	20
Zinc	30.4	0.471	"	30.6	0.716	20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0616 - EPA 3050B**

Matrix Spike (BFJ0616-MS1)		Source: 2210384-01			Prepared: 10/23/22 Analyzed: 10/24/22					
Arsenic	49.1	0.235	mg/kg dry	47.1	4.70	94.4	75-125			
Barium	113	0.471	"	47.1	83.5	63.1	75-125			QM-05
Cadmium	2.23	0.235	"	2.35	0.233	84.7	75-125			
Copper	46.0	0.471	"	47.1	7.32	82.2	75-125			
Lead	27.1	0.235	"	23.5	8.32	79.7	75-125			
Nickel	45.7	0.471	"	47.1	6.65	82.9	75-125			
Selenium	5.40	0.306	"	4.71	ND	115	75-125			
Silver	2.33	0.0235	"	2.35	0.249	88.5	75-125			
Zinc	63.6	0.471	"	47.1	30.6	70.2	75-125			QM-05

Matrix Spike Dup (BFJ0616-MSD1)		Source: 2210384-01			Prepared: 10/23/22 Analyzed: 10/24/22					
Arsenic	54.9	0.235	mg/kg dry	47.1	4.70	107	75-125	11.0	25	
Barium	116	0.471	"	47.1	83.5	69.8	75-125	2.78	25	QM-05
Cadmium	2.31	0.235	"	2.35	0.233	88.3	75-125	3.77	25	
Copper	45.6	0.471	"	47.1	7.32	81.4	75-125	0.813	25	
Lead	27.8	0.235	"	23.5	8.32	82.7	75-125	2.63	25	
Nickel	45.5	0.471	"	47.1	6.65	82.5	75-125	0.409	25	
Selenium	5.75	0.306	"	4.71	ND	122	75-125	6.27	25	
Silver	2.39	0.0235	"	2.35	0.249	91.1	75-125	2.59	25	
Zinc	70.5	0.471	"	47.1	30.6	84.8	75-125	10.3	25	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0682 - 3060A Mod**

**Blank (BFJ0682-BLK1)**

Prepared & Analyzed: 10/25/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0682-BS1)**

Prepared & Analyzed: 10/25/22

Chromium, Hexavalent 23.0 0.30 mg/kg wet 25.0 92.2 80-120

**Duplicate (BFJ0682-DUP1)**

**Source: 2210384-03**

Prepared & Analyzed: 10/25/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0682-MS1)**

**Source: 2210384-03**

Prepared & Analyzed: 10/25/22

Chromium, Hexavalent 6.48 0.30 mg/kg dry 30.8 ND 21.0 75-125 QM-05

**Matrix Spike Dup (BFJ0682-MSD1)**

**Source: 2210384-03**

Prepared & Analyzed: 10/25/22

Chromium, Hexavalent 6.41 0.30 mg/kg dry 30.8 ND 20.8 75-125 0.957 20 QM-05

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0733 - General Preparation**

**Blank (BFJ0733-BLK1)**

Prepared: 10/26/22 Analyzed: 10/27/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0733-BS1)**

Prepared: 10/26/22 Analyzed: 10/27/22

Calcium	4.53	0.0500	mg/L wet	5.00	90.6	70-130
Magnesium	5.19	0.0500	"	5.00	104	70-130
Sodium	5.46	0.0500	"	5.00	109	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

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

**Summit Scientific**

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

**Batch BFJ0627 - General Preparation**

**Duplicate (BFJ0627-DUP1)**

**Source: 2210384-01**

Prepared: 10/23/22 Analyzed: 10/24/22

% Solids	85.0	%	85.0	0.0282	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0774 - General Preparation**

**Blank (BFJ0774-BLK1)**

Prepared & Analyzed: 10/27/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0774-BS1)**

Prepared & Analyzed: 10/27/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BFJ0774-DUP1)**

**Source: 2210384-01**

Prepared & Analyzed: 10/27/22

Specific Conductance (EC) 0.855 0.0100 mmhos/cm 0.849 0.634 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0775 - General Preparation**

**LCS (BFJ0775-BS1)**

Prepared & Analyzed: 10/27/22

pH	9.03	pH Units	9.18	98.4	95-105
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**Duplicate (BFJ0775-DUP1)**

**Source: 2210384-01**

Prepared & Analyzed: 10/27/22

pH	8.00	pH Units	7.96	0.501	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/28/22 12:36

### Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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 06, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2209537

Enclosed are the results of analyses for samples received by Summit Scientific on 09/27/22 12:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC01@5	2209537-01	Soil	09/27/22 10:00	09/27/22 12:15

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

2209537

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address: \_\_\_\_\_ E-Mail: bbaughe@entradainc.com; PDCEHS

City/State/Zip: \_\_\_\_\_ cvenuser@entradainc.com

Phone: 586 9456355 Project Name: Mershon Pad

Sampler Name: Chelsea Vermyser Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other									
1	WC01 @ 5	9/27/22	1000	3			X			X			X								
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>Chelsea Vermyser</u>	Date/Time: <u>9/27/22 1215</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/27/22 1215</u>	Turn Around Time (Check)	Notes:
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Same Day _____ 72 hours <u>X</u>	
				24 hours _____ Standard _____	
				48 hours _____	
Temperature Upon Receipt: <u>7.9</u>	Corrected Temperature <u>0</u>	HNO3 lot # _____	Sample Integrity:		
IR gun correction: <u>0</u>	IR gun #: <u>1</u>		Samples Intact: <u>Yes</u> No		



S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2509537Client: EntradaClient Project ID: marshon PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: \_\_\_\_\_

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

7.9

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<u>NOTE</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
  
 Custodian Printed Name

9.27.22  
 Date/Time
19:30





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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**WC01@5**  
**2209537-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10735	09/28/22	09/29/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.015</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.015</b>	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.52</b>	0.50	"	"	"	"	"	"	

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>250</b>	50	mg/kg	1	BF10738	09/28/22	09/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		50.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

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

**Reported:**  
10/06/22 16:13

**WC01@5**  
**2209537-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10719	09/28/22	09/29/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0337</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.115</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0108</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.934</b>	0.100	"	20	"	"	09/29/22	"	
<b>2-Methylnaphthalene</b>	<b>1.75</b>	0.100	"	"	"	"	"	"	

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		105 %	40-150		"	"	09/29/22	"	
Surrogate: Fluoranthene-d10		91.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.414</b>	0.0100	mg/L	1	BF10758	09/29/22	10/04/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**WC01@5**  
**2209537-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	8.90	0.248	mg/kg dry	1	BF10714	09/28/22	10/01/22	EPA 6020B
Barium	109	0.497	"	"	"	"	"	"
Cadmium	ND	0.248	"	"	"	"	"	"
Copper	14.7	0.497	"	"	"	"	"	"
Lead	12.6	0.248	"	"	"	"	"	"
Nickel	15.6	0.497	"	"	"	"	"	"
Selenium	1.13	0.323	"	"	"	"	"	"
Silver	0.0699	0.0248	"	"	"	"	"	"
Zinc	65.2	0.497	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0094	10/05/22	10/06/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.7	0.0621	mg/L dry	1	BF10770	09/29/22	10/06/22	EPA 6020B	
Magnesium	16.5	0.0621	"	"	"	"	"	"	
Sodium	104	0.0621	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.76	0.00100	units	1	BFJ0137	10/06/22	10/06/22	Calculation	


**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**WC01@5**  
**2209537-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.6	%	1	BF10792	09/30/22	09/30/22	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.807	0.0100	mmhos/cm	1	BF10774	09/29/22	09/30/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **09/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BF10773	09/29/22	09/30/22	EPA 9045D	

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFI0735 - EPA 5030 Soil MS

##### Blank (BFI0735-BLK1)

Prepared: 09/28/22 Analyzed: 09/29/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	50-150			

##### LCS (BFI0735-BS1)

Prepared: 09/28/22 Analyzed: 09/29/22

Benzene	0.0553	0.0020	mg/kg	0.0750		73.7	70-130			
Toluene	0.0601	0.0050	"	0.0750		80.2	70-130			
Ethylbenzene	0.0555	0.0050	"	0.0750		74.0	70-130			
m,p-Xylene	0.111	0.010	"	0.150		74.2	70-130			
o-Xylene	0.0582	0.0050	"	0.0750		77.6	70-130			
1,2,4-Trimethylbenzene	0.0552	0.0050	"	0.0750		73.6	70-130			
1,3,5-Trimethylbenzene	0.0548	0.0050	"	0.0750		73.0	70-130			
Naphthalene	0.0577	0.0038	"	0.0750		76.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0326		"	0.0400		81.6	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.5	50-150			

##### Matrix Spike (BFI0735-MS1)

Source: 2209507-04

Prepared: 09/28/22 Analyzed: 09/29/22

Benzene	0.0536	0.0020	mg/kg	0.0750	ND	71.4	70-130			
Toluene	0.0589	0.0050	"	0.0750	ND	78.6	70-130			
Ethylbenzene	0.0550	0.0050	"	0.0750	ND	73.3	70-130			
m,p-Xylene	0.110	0.010	"	0.150	ND	73.1	70-130			
o-Xylene	0.0576	0.0050	"	0.0750	ND	76.8	70-130			
1,2,4-Trimethylbenzene	0.0548	0.0050	"	0.0750	ND	73.0	70-130			
1,3,5-Trimethylbenzene	0.0544	0.0050	"	0.0750	ND	72.5	70-130			
Naphthalene	0.0550	0.0038	"	0.0750	ND	73.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.4	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.6	50-150			

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0735 - EPA 5030 Soil MS**

Matrix Spike Dup (BFI0735-MSD1)		Source: 2209507-04			Prepared: 09/28/22 Analyzed: 09/29/22					
Benzene	0.0525	0.0020	mg/kg	0.0750	ND	70.0	70-130	1.92	30	
Toluene	0.0601	0.0050	"	0.0750	ND	80.1	70-130	1.97	30	
Ethylbenzene	0.0566	0.0050	"	0.0750	ND	75.4	70-130	2.85	30	
m,p-Xylene	0.114	0.010	"	0.150	ND	75.7	70-130	3.55	30	
o-Xylene	0.0588	0.0050	"	0.0750	ND	78.4	70-130	2.01	30	
1,2,4-Trimethylbenzene	0.0556	0.0050	"	0.0750	ND	74.1	70-130	1.41	30	
1,3,5-Trimethylbenzene	0.0559	0.0050	"	0.0750	ND	74.5	70-130	2.78	30	
Naphthalene	0.0574	0.0038	"	0.0750	ND	76.6	70-130	4.38	30	
Surrogate: 1,2-Dichloroethane-d4		0.0368	"	0.0400		91.9	50-150			
Surrogate: Toluene-d8		0.0408	"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene		0.0355	"	0.0400		88.8	50-150			

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

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

**Reported:**  
10/06/22 16:13

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFI0738 - EPA 3550A**

**Blank (BFI0738-BLK1)**

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.6		"	12.5		92.4	30-150			

**LCS (BFI0738-BS1)**

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	591	50	mg/kg	500		118	70-130			
Surrogate: o-Terphenyl	11.1		"	12.5		88.6	30-150			

**Matrix Spike (BFI0738-MS1)**

Source: 2209507-04

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	629	50	mg/kg	500	15.7	123	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		87.2	30-150			

**Matrix Spike Dup (BFI0738-MSD1)**

Source: 2209507-04

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	558	50	mg/kg	500	15.7	108	70-130	12.0	20	
Surrogate: o-Terphenyl	9.91		"	12.5		79.3	30-150			

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

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

**Reported:**  
10/06/22 16:13

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFI0719 - EPA 5030 Soil MS

##### Blank (BFI0719-BLK1)

Prepared & Analyzed: 09/28/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0269		"	0.0333		80.7	40-150			
Surrogate: Fluoranthene-d10	0.0295		"	0.0333		88.4	40-150			

##### LCS (BFI0719-BS1)

Prepared & Analyzed: 09/28/22

Acenaphthene	0.0383	0.00500	mg/kg	0.0333	115	31-137
Anthracene	0.0341	0.00500	"	0.0333	102	30-120
Benzo (a) anthracene	0.0321	0.00500	"	0.0333	96.4	30-120
Benzo (a) pyrene	0.0364	0.00500	"	0.0333	109	30-120
Benzo (b) fluoranthene	0.0386	0.00500	"	0.0333	116	30-120
Benzo (k) fluoranthene	0.0367	0.00500	"	0.0333	110	30-120
Chrysene	0.0297	0.00500	"	0.0333	89.1	30-120
Dibenz (a,h) anthracene	0.0358	0.00500	"	0.0333	107	30-120
Fluoranthene	0.0328	0.00500	"	0.0333	98.4	30-120
Fluorene	0.0351	0.00500	"	0.0333	105	30-120
Indeno (1,2,3-cd) pyrene	0.0325	0.00500	"	0.0333	97.4	30-120
Pyrene	0.0306	0.00500	"	0.0333	91.8	35-142
1-Methylnaphthalene	0.0336	0.00500	"	0.0333	101	35-142
2-Methylnaphthalene	0.0366	0.00500	"	0.0333	110	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0347		"	0.0333	104	40-150
Surrogate: Fluoranthene-d10	0.0368		"	0.0333	110	40-150

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

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

**Reported:**  
10/06/22 16:13

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFI0719 - EPA 5030 Soil MS

##### Matrix Spike (BFI0719-MS1)

Source: 2209496-01

Prepared & Analyzed: 09/28/22

Acenaphthene	0.0248	0.00500	mg/kg	0.0333	ND	74.3	31-137		
Anthracene	0.0229	0.00500	"	0.0333	ND	68.6	30-120		
Benzo (a) anthracene	0.0229	0.00500	"	0.0333	ND	68.8	30-120		
Benzo (a) pyrene	0.0256	0.00500	"	0.0333	ND	76.9	30-120		
Benzo (b) fluoranthene	0.0286	0.00500	"	0.0333	ND	85.7	30-120		
Benzo (k) fluoranthene	0.0274	0.00500	"	0.0333	ND	82.3	30-120		
Chrysene	0.0210	0.00500	"	0.0333	ND	63.0	30-120		
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0333	ND	76.1	30-120		
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.5	30-120		
Fluorene	0.0211	0.00500	"	0.0333	ND	63.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0284	0.00500	"	0.0333	ND	85.2	30-120		
Pyrene	0.0233	0.00500	"	0.0333	ND	69.8	35-142		
1-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.6	15-130		
2-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0227		"	0.0333		68.2	40-150		
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.9	40-150		

##### Matrix Spike Dup (BFI0719-MSD1)

Source: 2209496-01

Prepared & Analyzed: 09/28/22

Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.1	31-137	8.81	30
Anthracene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	16.3	30
Benzo (a) anthracene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	14.6	30
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	15.6	30
Benzo (b) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.5	30-120	16.6	30
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333	ND	71.8	30-120	13.7	30
Chrysene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	15.1	30
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	19.4	30
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	16.8	30
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	10.5	30
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.5	30-120	23.1	30
Pyrene	0.0192	0.00500	"	0.0333	ND	57.4	35-142	19.5	30
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.8	15-130	17.9	50
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.3	15-130	22.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0176		"	0.0333		52.9	40-150		
Surrogate: Fluoranthene-d10	0.0199		"	0.0333		59.6	40-150		

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0758 - EPA 3050B**

**Blank (BFI0758-BLK1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron ND 0.0100 mg/L

**LCS (BFI0758-BS1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.47 0.0100 mg/L 5.00 109 80-120

**Duplicate (BFI0758-DUP1)**

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 0.0962 0.0100 mg/L 0.101 5.26 20

**Matrix Spike (BFI0758-MS1)**

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.54 0.0100 mg/L 5.00 0.101 109 75-125

**Matrix Spike Dup (BFI0758-MSD1)**

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.53 0.0100 mg/L 5.00 0.101 109 75-125 0.108 25

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

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

**Reported:**  
10/06/22 16:13

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0714 - EPA 3050B**

**Blank (BFI0714-BLK1)**

Prepared: 09/28/22 Analyzed: 10/01/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFI0714-BS1)**

Prepared: 09/28/22 Analyzed: 10/01/22

Arsenic	42.6	0.200	mg/kg wet	40.0	107	80-120
Barium	42.3	0.400	"	40.0	106	80-120
Cadmium	2.02	0.200	"	2.00	101	80-120
Copper	42.7	0.400	"	40.0	107	80-120
Lead	19.9	0.200	"	20.0	99.5	80-120
Nickel	42.6	0.400	"	40.0	106	80-120
Selenium	4.27	0.260	"	4.00	107	80-120
Silver	2.03	0.0200	"	2.00	102	80-120
Zinc	42.2	0.400	"	40.0	106	80-120

**Duplicate (BFI0714-DUP1)**

Source: 2209330-01

Prepared: 09/28/22 Analyzed: 10/01/22

Arsenic	5.43	0.213	mg/kg dry	5.03	7.71	20
Barium	138	0.426	"	123	10.9	20
Cadmium	0.162	0.213	"	0.139	15.3	20
Copper	15.4	0.426	"	14.1	9.24	20
Lead	11.6	0.213	"	10.3	11.7	20
Nickel	19.0	0.426	"	17.3	9.06	20
Selenium	1.03	0.277	"	0.939	9.73	20
Silver	0.0395	0.0213	"	0.0334	16.9	20
Zinc	70.0	0.426	"	63.4	9.98	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 - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0714 - EPA 3050B**

Matrix Spike (BFI0714-MS1)		Source: 2209330-01			Prepared: 09/28/22 Analyzed: 10/01/22					
Arsenic	57.3	0.213	mg/kg dry	42.6	5.03	123	75-125			
Barium	190	0.426	"	42.6	123	157	75-125			QM-05
Cadmium	2.63	0.213	"	2.13	0.139	117	75-125			
Copper	71.2	0.426	"	42.6	14.1	134	75-125			QM-05
Lead	34.0	0.213	"	21.3	10.3	111	75-125			
Nickel	76.3	0.426	"	42.6	17.3	139	75-125			QM-05
Selenium	5.48	0.277	"	4.26	0.939	107	75-125			
Silver	2.44	0.0213	"	2.13	0.0334	113	75-125			
Zinc	130	0.426	"	42.6	63.4	158	75-125			QM-05

Matrix Spike Dup (BFI0714-MSD1)		Source: 2209330-01			Prepared: 09/28/22 Analyzed: 10/01/22					
Arsenic	49.5	0.213	mg/kg dry	42.6	5.03	105	75-125	14.6	25	
Barium	161	0.426	"	42.6	123	88.7	75-125	16.4	25	
Cadmium	2.37	0.213	"	2.13	0.139	105	75-125	10.5	25	
Copper	58.2	0.426	"	42.6	14.1	104	75-125	20.1	25	
Lead	29.0	0.213	"	21.3	10.3	87.9	75-125	15.8	25	
Nickel	62.7	0.426	"	42.6	17.3	107	75-125	19.6	25	
Selenium	3.98	0.277	"	4.26	0.939	71.6	75-125	31.6	25	QM-05
Silver	2.25	0.0213	"	2.13	0.0334	104	75-125	8.17	25	
Zinc	108	0.426	"	42.6	63.4	105	75-125	18.9	25	

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0094 - 3060A Mod**

**Blank (BFJ0094-BLK1)**

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0094-BS1)**

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 102 80-120

**Duplicate (BFJ0094-DUP1)**

**Source: 2209514-01**

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0094-MS1)**

**Source: 2209514-01**

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 31.8 0.30 mg/kg dry 33.4 ND 95.2 75-125

**Matrix Spike Dup (BFJ0094-MSD1)**

**Source: 2209514-01**

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 35.0 0.30 mg/kg dry 33.4 ND 105 75-125 9.60 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BFI0770 - General Preparation**

**Blank (BFI0770-BLK1)**

Prepared: 09/29/22 Analyzed: 10/06/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFI0770-BS1)**

Prepared: 09/29/22 Analyzed: 10/06/22

Calcium	5.96	0.0500	mg/L wet	5.00	119	70-130
Magnesium	5.92	0.0500	"	5.00	118	70-130
Sodium	5.39	0.0500	"	5.00	108	70-130

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

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

**Summit Scientific**

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

**Batch BFI0792 - General Preparation**

**Duplicate (BFI0792-DUP1)**

**Source: 2209506-01**

Prepared & Analyzed: 09/30/22

% Solids	89.9	%		90.6		0.834	20
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Summit Scientific

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

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

**Reported:**  
10/06/22 16:13

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0774 - General Preparation**

**Blank (BFI0774-BLK1)**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFI0774-BS1)**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFI0774-DUP1)**

**Source: 2209471-01**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 1.02 0.0100 mmhos/cm 1.03 0.585 20

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0773 - General Preparation**

**LCS (BFI0773-BS1)**

Prepared: 09/29/22 Analyzed: 09/30/22

pH	9.14	pH Units	9.18	99.6	95-105
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**Duplicate (BFI0773-DUP1)**

Source: 2209471-01

Prepared: 09/29/22 Analyzed: 09/30/22

pH	7.90	pH Units	7.90	0.00	20
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
10/06/22 16:13

### Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

November 08, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210211

Enclosed are the results of analyses for samples received by Summit Scientific on 10/13/22 16:30. 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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3EX01@13	2210211-01	Soil	10/13/22 13:00	10/13/22 16:30
3EX02@13	2210211-02	Soil	10/13/22 13:15	10/13/22 16:30
3EX03@6	2210211-03	Soil	10/13/22 13:30	10/13/22 16:30
3EX03@11	2210211-04	Soil	10/13/22 13:45	10/13/22 16:30
3EX04@13	2210211-05	Soil	10/13/22 14:00	10/13/22 16:30

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.*

$S_2$ 

Bill to PDC

**303-277-9310**

Page ( of )

**Project Manager:**

E-Mail: [bbaugh@entrada-inc.com](mailto:bbaugh@entrada-inc.com), PDC EHS

Cveryser Gentrada Inc.com, nyoureGentradaInc.com

Project Name: Mershan Pad

Project Number:

~~OTE~~ Notes:  
Same day for  
BTEXN, TMBs  
+TPH  
Standard Table  
9/5-1

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2210211Client: Entrada Client Project ID: Merston PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 19.7 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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 ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same Day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):				

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

  
 Custodian Printed Name

10.13.22  
 Date/Time



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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX01@13**  
**2210211-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		140 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX01@13**  
**2210211-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0388	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		81.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX01@13**  
**2210211-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.59	0.232	mg/kg dry	1	BFJ0403	10/17/22	10/17/22	EPA 6020B
Barium	27.8	0.464	"	"	"	"	"	"
Cadmium	ND	0.232	"	"	"	"	"	"
Copper	4.34	0.464	"	"	"	"	"	"
Lead	3.93	0.232	"	"	"	"	"	"
Nickel	4.24	0.464	"	"	"	"	"	"
Selenium	ND	0.302	"	"	"	"	"	"
Silver	ND	0.0232	"	"	"	"	11/02/22	"
Zinc	15.8	0.464	"	"	"	"	10/17/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	177	0.0580	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B	
Magnesium	39.0	0.0580	"	"	"	"	"	"	
Sodium	57.4	0.0580	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.02	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

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

**Reported:**  
11/08/22 12:17

**3EX01@13**  
**2210211-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.43	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

Summit Scientific

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

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

**Reported:**  
11/08/22 12:17

**3EX02@13**  
**2210211-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		138 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		82.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
11/08/22 12:17

**3EX02@13**  
**2210211-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0388	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX02@13**  
**2210211-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.41	0.243	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	26.5	0.485	"	"	"	"	"	"
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	4.79	0.485	"	"	"	"	"	"
Lead	5.71	0.243	"	"	"	"	"	"
Nickel	5.16	0.485	"	"	"	"	"	"
Selenium	ND	0.315	"	"	"	"	"	"
Silver	ND	0.0243	"	"	"	"	11/02/22	"
Zinc	20.7	0.485	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	165	0.0606	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B	
Magnesium	28.1	0.0606	"	"	"	"	"	"	
Sodium	46.7	0.0606	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.885	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
11/08/22 12:17

**3EX02@13**  
**2210211-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.13	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
11/08/22 12:17

**3EX03@6**  
**2210211-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		145 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

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

**Reported:**  
11/08/22 12:17

**3EX03@6**  
**2210211-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0388	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		68.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0146</b>	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX03@6**  
**2210211-03 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.80	0.242	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	86.0	0.485	"	"	"	"	"	"
Cadmium	ND	0.242	"	"	"	"	"	"
Copper	6.90	0.485	"	"	"	"	"	"
Lead	10.6	0.242	"	"	"	"	"	"
Nickel	7.90	0.485	"	"	"	"	"	"
Selenium	ND	0.315	"	"	"	"	"	"
Silver	0.0490	0.0242	"	"	"	"	11/02/22	"
Zinc	32.3	0.485	"	"	"	"	10/18/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.7	0.0606	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B	
Magnesium	39.2	0.0606	"	"	"	"	"	"	
Sodium	50.4	0.0606	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.26	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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

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

**Reported:**  
11/08/22 12:17

**3EX03@6**  
**2210211-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.745	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

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Grand Junction. CO, 81501

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

**Reported:**  
11/08/22 12:17

**3EX03@11**  
**2210211-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		137 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		118 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX03@11**  
**2210211-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0388	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX03@11**  
**2210211-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.72	0.215	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	27.1	0.430	"	"	"	"	"	"
Cadmium	ND	0.215	"	"	"	"	"	"
Copper	3.94	0.430	"	"	"	"	"	"
Lead	3.90	0.215	"	"	"	"	"	"
Nickel	3.94	0.430	"	"	"	"	"	"
Selenium	ND	0.279	"	"	"	"	"	"
Silver	ND	0.0215	"	"	"	"	11/02/22	"
Zinc	13.5	0.430	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	188	0.0537	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B	
Magnesium	97.2	0.0537	"	"	"	"	"	"	
Sodium	49.4	0.0537	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.729	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

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

**Reported:**  
11/08/22 12:17

**3EX03@11**  
**2210211-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.76	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/13/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

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

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

**Reported:**  
11/08/22 12:17

**3EX04@13**  
**2210211-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		143 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX04@13**  
**2210211-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0388	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
11/08/22 12:17

**3EX04@13**  
**2210211-05 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.78	0.238	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	44.0	0.477	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	4.24	0.477	"	"	"	"	"	"
Lead	4.58	0.238	"	"	"	"	"	"
Nickel	5.02	0.477	"	"	"	"	"	"
Selenium	ND	0.310	"	"	"	"	"	"
Silver	ND	0.0238	"	"	"	"	11/02/22	"
Zinc	17.7	0.477	"	"	"	"	10/18/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	238	0.0596	mg/L dry	1	BFJ0496	10/19/22	10/21/22	EPA 6020B	
Magnesium	42.0	0.0596	"	"	"	"	"	"	
Sodium	68.1	0.0596	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.07	0.00100	units	1	BFJ0581	10/21/22	10/21/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**3EX04@13**  
**2210211-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BFJ0423	10/17/22	10/18/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.56	0.0100	mmhos/cm	1	BFJ0536	10/20/22	10/20/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/13/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.35		pH Units	1	BFJ0535	10/20/22	10/20/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
11/08/22 12:17

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BFJ0343 - EPA 5030 Soil MS

##### Blank (BFJ0343-BLK1)

Prepared & Analyzed: 10/13/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0538		"	0.0400		134	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		110	50-150			

##### LCS (BFJ0343-BS1)

Prepared & Analyzed: 10/13/22

Benzene	0.0773	0.0020	mg/kg	0.0750		103	70-130			
Toluene	0.0779	0.0050	"	0.0750		104	70-130			
Ethylbenzene	0.0768	0.0050	"	0.0750		102	70-130			
m,p-Xylene	0.154	0.010	"	0.150		103	70-130			
o-Xylene	0.0773	0.0050	"	0.0750		103	70-130			
1,2,4-Trimethylbenzene	0.0824	0.0050	"	0.0750		110	70-130			
1,3,5-Trimethylbenzene	0.0792	0.0050	"	0.0750		106	70-130			
Naphthalene	0.0919	0.0038	"	0.0750		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0514		"	0.0400		128	50-150			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0455		"	0.0400		114	50-150			

##### Matrix Spike (BFJ0343-MS1)

Source: 2210199-02

Prepared & Analyzed: 10/13/22

Benzene	0.0668	0.0020	mg/kg	0.0750	ND	89.1	70-130			
Toluene	0.0744	0.0050	"	0.0750	ND	99.2	70-130			
Ethylbenzene	0.0782	0.0050	"	0.0750	ND	104	70-130			
m,p-Xylene	0.157	0.010	"	0.150	0.00843	98.8	70-130			
o-Xylene	0.0793	0.0050	"	0.0750	ND	106	70-130			
1,2,4-Trimethylbenzene	0.0863	0.0050	"	0.0750	0.00477	109	70-130			
1,3,5-Trimethylbenzene	0.0853	0.0050	"	0.0750	ND	114	70-130			
Naphthalene	0.0700	0.0038	"	0.0750	ND	93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0498		"	0.0400		124	50-150			
Surrogate: Toluene-d8	0.0441		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	50-150			

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0343 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0343-MSD1)		Source: 2210199-02			Prepared: 10/13/22 Analyzed: 10/14/22					
Benzene	0.0753	0.0020	mg/kg	0.0750	ND	100	70-130	11.9	30	
Toluene	0.0788	0.0050	"	0.0750	ND	105	70-130	5.64	30	
Ethylbenzene	0.0749	0.0050	"	0.0750	ND	99.8	70-130	4.27	30	
m,p-Xylene	0.151	0.010	"	0.150	0.00843	95.2	70-130	3.51	30	
o-Xylene	0.0774	0.0050	"	0.0750	ND	103	70-130	2.41	30	
1,2,4-Trimethylbenzene	0.0854	0.0050	"	0.0750	0.00477	107	70-130	1.05	30	
1,3,5-Trimethylbenzene	0.0818	0.0050	"	0.0750	ND	109	70-130	4.13	30	
Naphthalene	0.0773	0.0038	"	0.0750	ND	103	70-130	9.94	30	
Surrogate: 1,2-Dichloroethane-d4	0.0550		"	0.0400		138	50-150			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0454		"	0.0400		114	50-150			

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

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

**Reported:**  
11/08/22 12:17

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0344 - EPA 3550A**

**Blank (BFJ0344-BLK1)**

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0344-BS1)**

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	523	50	mg/kg	500	105	70-130
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**Matrix Spike (BFJ0344-MS1)**

Source: 2210199-02

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	586	50	mg/kg	500	21.2	113	70-130
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**Matrix Spike Dup (BFJ0344-MSD1)**

Source: 2210199-02

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	647	50	mg/kg	500	21.2	125	70-130	9.77	20
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240 Mesa Avenue  
Grand Junction, CO, 81501

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

**Reported:**  
11/08/22 12:17

### PAH by EPA Method 8270D SIM - Quality Control

#### Summit Scientific

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

#### Batch BFJ0388 - EPA 5030 Soil MS

##### Blank (BFJ0388-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0309		"	0.0333		92.7	40-150			
Surrogate: Fluoranthene-d10	0.0275		"	0.0333		82.5	40-150			

##### LCS (BFJ0388-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Acenaphthene	0.0306	0.00500	mg/kg	0.0333		91.8	31-137			
Anthracene	0.0345	0.00500	"	0.0333		104	30-120			
Benzo (a) anthracene	0.0302	0.00500	"	0.0333		90.5	30-120			
Benzo (a) pyrene	0.0280	0.00500	"	0.0333		84.1	30-120			
Benzo (b) fluoranthene	0.0304	0.00500	"	0.0333		91.1	30-120			
Benzo (k) fluoranthene	0.0344	0.00500	"	0.0333		103	30-120			
Chrysene	0.0306	0.00500	"	0.0333		91.9	30-120			
Dibenz (a,h) anthracene	0.0273	0.00500	"	0.0333		82.0	30-120			
Fluoranthene	0.0356	0.00500	"	0.0333		107	30-120			
Fluorene	0.0354	0.00500	"	0.0333		106	30-120			
Indeno (1,2,3-cd) pyrene	0.0278	0.00500	"	0.0333		83.3	30-120			
Pyrene	0.0293	0.00500	"	0.0333		87.9	35-142			
1-Methylnaphthalene	0.0354	0.00500	"	0.0333		106	35-142			
2-Methylnaphthalene	0.0361	0.00500	"	0.0333		108	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0351		"	0.0333		105	40-150			
Surrogate: Fluoranthene-d10	0.0358		"	0.0333		107	40-150			

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

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0388 - EPA 5030 Soil MS

Matrix Spike (BFJ0388-MS1)			Source: 2210206-01		Prepared: 10/17/22		Analyzed: 10/18/22	
Acenaphthene	0.0162	0.00500	mg/kg	0.0333	ND	48.5	31-137	
Anthracene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	
Benzo (a) anthracene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	
Benzo (b) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120	
Chrysene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	
Dibenz (a,h) anthracene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	
Fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	
Pyrene	0.0199	0.00500	"	0.0333	ND	59.8	35-142	
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	54.8	15-130	
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.3	15-130	
Surrogate: 2-Methylnaphthalene-d10	0.0188		"	0.0333		56.3	40-150	
Surrogate: Fluoranthene-d10	0.0212		"	0.0333		63.7	40-150	

Matrix Spike Dup (BFJ0388-MSD1)			Source: 2210206-01		Prepared: 10/17/22		Analyzed: 10/18/22	
Acenaphthene	0.0187	0.00500	mg/kg	0.0333	ND	56.1	31-137	14.4 30
Anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	2.53 30
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	3.52 30
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	4.13 30
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	6.11 30
Benzo (k) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	2.51 30
Chrysene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	2.52 30
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	18.2 30
Fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120	0.444 30
Fluorene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	0.395 30
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	8.64 30
Pyrene	0.0193	0.00500	"	0.0333	ND	57.9	35-142	3.11 30
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.7	15-130	8.58 50
2-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.0	15-130	6.08 50
Surrogate: 2-Methylnaphthalene-d10	0.0202		"	0.0333		60.6	40-150	
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.9	40-150	

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0401 - EPA 3050B**

**Blank (BFJ0401-BLK1)**

Prepared: 10/17/22 Analyzed: 10/18/22

Boron ND 0.0100 mg/L

**LCS (BFJ0401-BS1)**

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 5.32 0.0100 mg/L 5.00 106 80-120

**Duplicate (BFJ0401-DUP1)**

Source: 2210204-01

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 0.304 0.0100 mg/L 0.324 6.31 20

**Matrix Spike (BFJ0401-MS1)**

Source: 2210204-01

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 4.60 0.0100 mg/L 5.00 0.324 85.5 75-125

**Matrix Spike Dup (BFJ0401-MSD1)**

Source: 2210204-01

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 5.43 0.0100 mg/L 5.00 0.324 102 75-125 16.5 25

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0403 - EPA 3050B**

**Blank (BFJ0403-BLK1)**

Prepared & Analyzed: 10/17/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0403-BS1)**

Prepared & Analyzed: 10/17/22

Arsenic	44.2	0.200	mg/kg wet	40.0	111	80-120
Barium	38.5	0.400	"	40.0	96.2	80-120
Cadmium	1.85	0.200	"	2.00	92.7	80-120
Copper	47.1	0.400	"	40.0	118	80-120
Lead	19.1	0.200	"	20.0	95.5	80-120
Nickel	43.7	0.400	"	40.0	109	80-120
Selenium	4.44	0.260	"	4.00	111	80-120
Silver	1.99	0.0200	"	2.00	99.3	80-120
Zinc	44.4	0.400	"	40.0	111	80-120

**Duplicate (BFJ0403-DUP1)**

Source: 2210198-27

Prepared & Analyzed: 10/17/22

Arsenic	0.345	0.205	mg/kg dry	0.388	11.9	20	QR-03
Barium	22.8	0.409	"	18.1	22.8	20	
Cadmium	0.0352	0.205	"	0.0303	15.0	20	
Copper	1.41	0.409	"	1.28	9.90	20	
Lead	1.31	0.205	"	1.16	11.6	20	
Nickel	0.724	0.409	"	0.715	1.25	20	
Selenium	ND	0.266	"	ND		20	
Silver	0.829	0.0205	"	0.755	9.41	20	
Zinc	3.96	0.409	"	3.54	11.4	20	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0403 - EPA 3050B**

Matrix Spike (BFJ0403-MS1)			Source: 2210198-27		Prepared & Analyzed: 10/17/22					
Arsenic	20.3	0.205	mg/kg dry	40.9	0.388	48.7	75-125			QM-05
Barium	60.1	0.409	"	40.9	18.1	103	75-125			
Cadmium	2.01	0.205	"	2.05	0.0303	96.9	75-125			
Copper	44.5	0.409	"	40.9	1.28	106	75-125			
Lead	20.9	0.205	"	20.5	1.16	96.7	75-125			
Nickel	41.7	0.409	"	40.9	0.715	100	75-125			
Selenium	4.37	0.266	"	4.09	ND	107	75-125			
Silver	2.87	0.0205	"	2.05	0.755	103	75-125			
Zinc	45.8	0.409	"	40.9	3.54	103	75-125			

Matrix Spike Dup (BFJ0403-MSD1)			Source: 2210198-27		Prepared & Analyzed: 10/17/22					
Arsenic	25.0	0.205	mg/kg dry	40.9	0.388	60.1	75-125	20.6	25	QM-05
Barium	65.8	0.409	"	40.9	18.1	116	75-125	8.96	25	
Cadmium	1.98	0.205	"	2.05	0.0303	95.1	75-125	1.79	25	
Copper	49.6	0.409	"	40.9	1.28	118	75-125	10.9	25	
Lead	22.1	0.205	"	20.5	1.16	102	75-125	5.50	25	
Nickel	50.3	0.409	"	40.9	0.715	121	75-125	18.7	25	
Selenium	4.41	0.266	"	4.09	ND	108	75-125	0.970	25	
Silver	2.80	0.0205	"	2.05	0.755	100	75-125	2.35	25	
Zinc	51.3	0.409	"	40.9	3.54	117	75-125	11.2	25	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0576 - 3060A Mod**

**Blank (BFJ0576-BLK1)**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0576-BS1)**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent 23.0 0.30 mg/kg wet 25.0 92.2 80-120

**Duplicate (BFJ0576-DUP1)**

**Source: 2210282-07**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0576-MS1)**

**Source: 2210282-07**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent 21.9 0.30 mg/kg dry 26.2 ND 83.4 75-125

**Matrix Spike Dup (BFJ0576-MSD1)**

**Source: 2210282-07**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent 24.1 0.30 mg/kg dry 26.2 ND 91.8 75-125 9.59 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0496 - General Preparation**

**Blank (BFJ0496-BLK1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0496-BS1)**

Prepared: 10/19/22 Analyzed: 10/21/22

Calcium	4.69	0.0500	mg/L wet	5.00	93.8	70-130
Magnesium	5.30	0.0500	"	5.00	106	70-130
Sodium	5.26	0.0500	"	5.00	105	70-130

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0423 - General Preparation**

**Duplicate (BFJ0423-DUP1)**

**Source: 2210184-01**

Prepared: 10/17/22 Analyzed: 10/18/22

% Solids	90.4	%	88.7	1.96	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting			Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BFJ0536 - General Preparation**

**Blank (BFJ0536-BLK1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0536-BS1)**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BFJ0536-DUP1)**

**Source: 2210188-01**

Prepared & Analyzed: 10/20/22

Specific Conductance (EC) 0.415 0.0100 mmhos/cm 0.424 2.15 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0535 - General Preparation**

**LCS (BFJ0535-BS1)**

Prepared & Analyzed: 10/20/22

pH	8.96	pH Units	9.18	97.6	95-105
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**Duplicate (BFJ0535-DUP1)**

Source: 2210188-01

Prepared & Analyzed: 10/20/22

pH	7.85	pH Units	8.20	4.36	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:17

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

November 08, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210230

Enclosed are the results of analyses for samples received by Summit Scientific on 10/14/22 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3EX05@6	2210230-01	Soil	10/14/22 09:15	10/14/22 13:00
3EX05@11	2210230-02	Soil	10/14/22 09:00	10/14/22 13:00
3EX06@6	2210230-03	Soil	10/14/22 10:30	10/14/22 13:00
3EX06@11	2210230-04	Soil	10/14/22 10:45	10/14/22 13:00

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

2210230

Bill to PDC

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Page 1 of 1

Address: \_\_\_\_\_ E-Mail: Bbaugh@entradainc.com, PDC EHS

City/State/Zip: \_\_\_\_\_ cc: Cveryser@entradainc.com

Phone: 412-337-5122 Project Name: Mershon Pad

Sampler Name: Nick Yourd Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1								
1	3EX0506	10/14/22	0915	3			X			X										See notes	
2	3EX05011	↓	0900	↓			↓			↓											
3	3EX0606	↓	1030	↓			↓			↓											
4	3EX06011	↓	1045	↓			↓			↓											
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/14/22 1300</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/14/22 1300</u>	Turn Around Time (Check)	Notes:
Relinquished by: _____	Date/Time: _____	Received by: <u>[Signature]</u>	Date/Time: <u>10/14/22 1300</u>	Same Day <u>1</u> 72 hours _____	Sameday BTEXN, TMBs TPH Standard Table 915-1
Temperature Upon Receipt: <u>23.4</u>	Corrected Temperature: _____	HNO <sub>3</sub> lot #: _____	24 hours _____ Standard <u>1</u>		
IR gun correction: _____	IR gun #: <u>2</u>		48 hours _____		
				Sample Integrity: <u>Yes</u> No	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2210230Client: PDC / Entrada Client Project ID: Merchon PaedShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 23.4 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<i>On ice.</i>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Same day.</i>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Jack Brer

Custodian Printed Name

10/14/22

Date/Time



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX05@6**  
**2210230-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0382	10/14/22	10/14/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0383	10/14/22	10/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX05@6**  
**2210230-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0484	10/19/22	10/19/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX05@6**  
**2210230-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.60	0.239	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	81.9	0.478	"	"	"	"	"	"
Cadmium	ND	0.239	"	"	"	"	"	"
Copper	6.52	0.478	"	"	"	"	"	"
Lead	9.41	0.239	"	"	"	"	"	"
Nickel	7.48	0.478	"	"	"	"	"	"
Selenium	ND	0.310	"	"	"	"	"	"
Silver	0.0449	0.0239	"	"	"	"	11/02/22	"
Zinc	30.2	0.478	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.5	0.0597	mg/L dry	1	BFJ0538	10/20/22	10/25/22	EPA 6020B	
Magnesium	14.9	0.0597	"	"	"	"	"	"	
Sodium	23.3	0.0597	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.925	0.00100	units	1	BFJ0694	10/25/22	10/25/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX05@6**  
**2210230-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BFJ0461	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.537	0.0100	mmhos/cm	1	BFJ0596	10/21/22	10/21/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/14/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BFJ0595	10/21/22	10/21/22	EPA 9045D	

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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX05@11**  
**2210230-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0382	10/14/22	10/14/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0383	10/14/22	10/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX05@11**  
**2210230-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0484	10/19/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		92.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

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11/08/22 12:19

**3EX05@11**  
**2210230-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.32	0.209	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	23.0	0.418	"	"	"	"	"	"
Cadmium	ND	0.209	"	"	"	"	"	"
Copper	2.63	0.418	"	"	"	"	"	"
Lead	2.66	0.209	"	"	"	"	"	"
Nickel	2.60	0.418	"	"	"	"	"	"
Selenium	ND	0.272	"	"	"	"	"	"
Silver	ND	0.0209	"	"	"	"	11/02/22	"
Zinc	9.45	0.418	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.3	0.0523	mg/L dry	1	BFJ0538	10/20/22	10/22/22	EPA 6020B	
Magnesium	21.9	0.0523	"	"	"	"	"	"	
Sodium	36.1	0.0523	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10	0.00100	units	1	BFJ0694	10/25/22	10/25/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX05@11**  
**2210230-02 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BFJ0461	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.582	0.0100	mmhos/cm	1	BFJ0596	10/21/22	10/21/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/14/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BFJ0595	10/21/22	10/21/22	EPA 9045D	

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Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@6**  
**2210230-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0382	10/14/22	10/14/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0383	10/14/22	10/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		118 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@6**  
**2210230-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0484	10/19/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@6**  
**2210230-03 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.51	0.238	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	75.9	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	6.86	0.476	"	"	"	"	"	"
Lead	10.3	0.238	"	"	"	"	"	"
Nickel	7.63	0.476	"	"	"	"	"	"
Selenium	ND	0.310	"	"	"	"	"	"
Silver	0.0453	0.0238	"	"	"	"	11/02/22	"
Zinc	31.4	0.476	"	"	"	"	10/18/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.5	0.0595	mg/L dry	1	BFJ0538	10/20/22	10/22/22	EPA 6020B	
Magnesium	23.8	0.0595	"	"	"	"	"	"	
Sodium	36.6	0.0595	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.11	0.00100	units	1	BFJ0694	10/25/22	10/25/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@6**  
**2210230-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BFJ0461	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.530	0.0100	mmhos/cm	1	BFJ0596	10/21/22	10/21/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BFJ0595	10/21/22	10/21/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@11**  
**2210230-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0382	10/14/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0383	10/14/22	10/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@11**  
**2210230-04 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0484	10/19/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		83.1 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0401	10/17/22	10/18/22	EPA 6020B	

#### Total Metals by EPA 6020B

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@11**  
**2210230-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.79	0.229	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	60.9	0.459	"	"	"	"	"	"
Cadmium	ND	0.229	"	"	"	"	"	"
Copper	4.72	0.459	"	"	"	"	"	"
Lead	5.61	0.229	"	"	"	"	"	"
Nickel	5.88	0.459	"	"	"	"	"	"
Selenium	ND	0.298	"	"	"	"	"	"
Silver	ND	0.0229	"	"	"	"	11/02/22	"
Zinc	20.5	0.459	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0576	10/21/22	10/21/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	578	0.0573	mg/L dry	1	BFJ0538	10/20/22	10/22/22	EPA 6020B	
Magnesium	92.1	0.0573	"	"	"	"	"	"	
Sodium	68.6	0.0573	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.699	0.00100	units	1	BFJ0694	10/25/22	10/25/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**3EX06@11**  
**2210230-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BFJ0461	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.85	0.0100	mmhos/cm	1	BFJ0596	10/21/22	10/21/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/14/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BFJ0595	10/21/22	10/21/22	EPA 9045D	

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Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0382 - EPA 5030 Soil MS

##### Blank (BFJ0382-BLK1)

Prepared & Analyzed: 10/14/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		96.9	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		108	50-150			

##### LCS (BFJ0382-BS1)

Prepared & Analyzed: 10/14/22

Benzene	0.0792	0.0020	mg/kg	0.100		79.2	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.226	0.010	"	0.200		113	70-130			
o-Xylene	0.0905	0.0050	"	0.100		90.5	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.100		114	70-130			
Naphthalene	0.111	0.0038	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

##### Matrix Spike (BFJ0382-MS1)

Source: 2210230-01

Prepared & Analyzed: 10/14/22

Benzene	0.0769	0.0020	mg/kg	0.100	ND	76.9	70-130			
Toluene	0.0974	0.0050	"	0.100	ND	97.4	70-130			
Ethylbenzene	0.0976	0.0050	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.221	0.010	"	0.200	ND	110	70-130			
o-Xylene	0.0875	0.0050	"	0.100	ND	87.5	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
Naphthalene	0.0938	0.0038	"	0.100	ND	93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0382 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0382-MSD1)		Source: 2210230-01			Prepared & Analyzed: 10/14/22					
Benzene	0.0760	0.0020	mg/kg	0.100	ND	76.0	70-130	1.26	30	
Toluene	0.0974	0.0050	"	0.100	ND	97.4	70-130	0.0308	30	
Ethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130	0.895	30	
m,p-Xylene	0.218	0.010	"	0.200	ND	109	70-130	1.15	30	
o-Xylene	0.0880	0.0050	"	0.100	ND	88.0	70-130	0.547	30	
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	1.36	30	
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	0.946	30	
Naphthalene	0.0994	0.0038	"	0.100	ND	99.4	70-130	5.84	30	
Surrogate: 1,2-Dichloroethane-d4		0.0410	"	0.0400		102	50-150			
Surrogate: Toluene-d8		0.0416	"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene		0.0411	"	0.0400		103	50-150			

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0383 - EPA 3550A**

**Blank (BFJ0383-BLK1)**

Prepared: 10/14/22 Analyzed: 10/15/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFJ0383-BS1)**

Prepared: 10/14/22 Analyzed: 10/15/22

C10-C28 (DRO)	560	50	mg/kg	500	112	70-130
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**Matrix Spike (BFJ0383-MS1)**

Source: 2210230-01

Prepared: 10/14/22 Analyzed: 10/15/22

C10-C28 (DRO)	537	50	mg/kg	500	10.6	105	70-130
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**Matrix Spike Dup (BFJ0383-MSD1)**

Source: 2210230-01

Prepared: 10/14/22 Analyzed: 10/15/22

C10-C28 (DRO)	508	50	mg/kg	500	10.6	99.4	70-130	5.55	20
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0484 - EPA 5030 Soil MS

##### Blank (BFJ0484-BLK1)

Prepared & Analyzed: 10/19/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.6	40-150			
Surrogate: Fluoranthene-d10	0.0305		"	0.0333		91.5	40-150			

##### LCS (BFJ0484-BS1)

Prepared & Analyzed: 10/19/22

Acenaphthene	0.0359	0.00500	mg/kg	0.0333	108	31-137
Anthracene	0.0273	0.00500	"	0.0333	82.0	30-120
Benzo (a) anthracene	0.0259	0.00500	"	0.0333	77.6	30-120
Benzo (a) pyrene	0.0311	0.00500	"	0.0333	93.2	30-120
Benzo (b) fluoranthene	0.0251	0.00500	"	0.0333	75.2	30-120
Benzo (k) fluoranthene	0.0241	0.00500	"	0.0333	72.4	30-120
Chrysene	0.0361	0.00500	"	0.0333	108	30-120
Dibenz (a,h) anthracene	0.0383	0.00500	"	0.0333	115	30-120
Fluoranthene	0.0299	0.00500	"	0.0333	89.8	30-120
Fluorene	0.0335	0.00500	"	0.0333	101	30-120
Indeno (1,2,3-cd) pyrene	0.0392	0.00500	"	0.0333	117	30-120
Pyrene	0.0333	0.00500	"	0.0333	100	35-142
1-Methylnaphthalene	0.0300	0.00500	"	0.0333	89.9	35-142
2-Methylnaphthalene	0.0350	0.00500	"	0.0333	105	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333	74.1	40-150
Surrogate: Fluoranthene-d10	0.0210		"	0.0333	62.9	40-150

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0484 - EPA 5030 Soil MS

Matrix Spike (BFJ0484-MS1)			Source: 2210230-01		Prepared & Analyzed: 10/19/22						
Acenaphthene	0.0210	0.00500	mg/kg	0.0333	ND	63.0	31-137				
Anthracene	0.0141	0.00500	"	0.0333	ND	42.2	30-120				
Benzo (a) anthracene	0.0176	0.00500	"	0.0333	ND	52.8	30-120				
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.6	30-120				
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.6	30-120				
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.6	30-120				
Chrysene	0.0152	0.00500	"	0.0333	ND	45.7	30-120				
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333	ND	67.4	30-120				
Fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9	30-120				
Fluorene	0.0160	0.00500	"	0.0333	ND	48.1	30-120				
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.2	30-120				
Pyrene	0.0134	0.00500	"	0.0333	ND	40.1	35-142				
1-Methylnaphthalene	0.0316	0.00500	"	0.0333	ND	94.8	15-130				
2-Methylnaphthalene	0.0347	0.00500	"	0.0333	ND	104	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0280		"	0.0333		84.0	40-150				
Surrogate: Fluoranthene-d10	0.0165		"	0.0333		49.5	40-150				

Matrix Spike Dup (BFJ0484-MSD1)			Source: 2210230-01		Prepared & Analyzed: 10/19/22						
Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.8	31-137	8.92	30		
Anthracene	0.0147	0.00500	"	0.0333	ND	44.0	30-120	4.18	30		
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.0	30-120	19.3	30		
Benzo (a) pyrene	0.0190	0.00500	"	0.0333	ND	56.9	30-120	15.7	30		
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	33.9	30		QR-02
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	13.5	30		
Chrysene	0.0177	0.00500	"	0.0333	ND	53.1	30-120	15.0	30		
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0333	ND	76.2	30-120	12.3	30		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	6.97	30		
Fluorene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	14.0	30		
Indeno (1,2,3-cd) pyrene	0.0230	0.00500	"	0.0333	ND	68.9	30-120	15.3	30		
Pyrene	0.0161	0.00500	"	0.0333	ND	48.3	35-142	18.8	30		
1-Methylnaphthalene	0.0352	0.00500	"	0.0333	ND	106	15-130	10.7	50		
2-Methylnaphthalene	0.0323	0.00500	"	0.0333	ND	96.8	15-130	7.31	50		
Surrogate: 2-Methylnaphthalene-d10	0.0325		"	0.0333		97.5	40-150				
Surrogate: Fluoranthene-d10	0.0191		"	0.0333		57.2	40-150				

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0401 - EPA 3050B**

**Blank (BFJ0401-BLK1)**

Prepared: 10/17/22 Analyzed: 10/18/22

Boron ND 0.0100 mg/L

**LCS (BFJ0401-BS1)**

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 5.32 0.0100 mg/L 5.00 106 80-120

**Duplicate (BFJ0401-DUP1)**

**Source: 2210204-01**

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 0.304 0.0100 mg/L 0.324 6.31 20

**Matrix Spike (BFJ0401-MS1)**

**Source: 2210204-01**

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 4.60 0.0100 mg/L 5.00 0.324 85.5 75-125

**Matrix Spike Dup (BFJ0401-MSD1)**

**Source: 2210204-01**

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 5.43 0.0100 mg/L 5.00 0.324 102 75-125 16.5 25

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0403 - EPA 3050B**

**Blank (BFJ0403-BLK1)**

Prepared & Analyzed: 10/17/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0403-BS1)**

Prepared & Analyzed: 10/17/22

Arsenic	44.2	0.200	mg/kg wet	40.0	111	80-120
Barium	38.5	0.400	"	40.0	96.2	80-120
Cadmium	1.85	0.200	"	2.00	92.7	80-120
Copper	47.1	0.400	"	40.0	118	80-120
Lead	19.1	0.200	"	20.0	95.5	80-120
Nickel	43.7	0.400	"	40.0	109	80-120
Selenium	4.44	0.260	"	4.00	111	80-120
Silver	1.99	0.0200	"	2.00	99.3	80-120
Zinc	44.4	0.400	"	40.0	111	80-120

**Duplicate (BFJ0403-DUP1)**

Source: 2210198-27

Prepared & Analyzed: 10/17/22

Arsenic	0.345	0.205	mg/kg dry	0.388	11.9	20	QR-03
Barium	22.8	0.409	"	18.1	22.8	20	
Cadmium	0.0352	0.205	"	0.0303	15.0	20	
Copper	1.41	0.409	"	1.28	9.90	20	
Lead	1.31	0.205	"	1.16	11.6	20	
Nickel	0.724	0.409	"	0.715	1.25	20	
Selenium	ND	0.266	"	ND		20	
Silver	0.829	0.0205	"	0.755	9.41	20	
Zinc	3.96	0.409	"	3.54	11.4	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 - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0403 - EPA 3050B**

Matrix Spike (BFJ0403-MS1)			Source: 2210198-27		Prepared & Analyzed: 10/17/22					
Arsenic	20.3	0.205	mg/kg dry	40.9	0.388	48.7	75-125			QM-05
Barium	60.1	0.409	"	40.9	18.1	103	75-125			
Cadmium	2.01	0.205	"	2.05	0.0303	96.9	75-125			
Copper	44.5	0.409	"	40.9	1.28	106	75-125			
Lead	20.9	0.205	"	20.5	1.16	96.7	75-125			
Nickel	41.7	0.409	"	40.9	0.715	100	75-125			
Selenium	4.37	0.266	"	4.09	ND	107	75-125			
Silver	2.87	0.0205	"	2.05	0.755	103	75-125			
Zinc	45.8	0.409	"	40.9	3.54	103	75-125			

Matrix Spike Dup (BFJ0403-MSD1)			Source: 2210198-27		Prepared & Analyzed: 10/17/22					
Arsenic	25.0	0.205	mg/kg dry	40.9	0.388	60.1	75-125	20.6	25	QM-05
Barium	65.8	0.409	"	40.9	18.1	116	75-125	8.96	25	
Cadmium	1.98	0.205	"	2.05	0.0303	95.1	75-125	1.79	25	
Copper	49.6	0.409	"	40.9	1.28	118	75-125	10.9	25	
Lead	22.1	0.205	"	20.5	1.16	102	75-125	5.50	25	
Nickel	50.3	0.409	"	40.9	0.715	121	75-125	18.7	25	
Selenium	4.41	0.266	"	4.09	ND	108	75-125	0.970	25	
Silver	2.80	0.0205	"	2.05	0.755	100	75-125	2.35	25	
Zinc	51.3	0.409	"	40.9	3.54	117	75-125	11.2	25	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0576 - 3060A Mod**

**Blank (BFJ0576-BLK1)**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0576-BS1)**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent 23.0 0.30 mg/kg wet 25.0 92.2 80-120

**Duplicate (BFJ0576-DUP1)**

**Source: 2210282-07**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0576-MS1)**

**Source: 2210282-07**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent 21.9 0.30 mg/kg dry 26.2 ND 83.4 75-125

**Matrix Spike Dup (BFJ0576-MSD1)**

**Source: 2210282-07**

Prepared & Analyzed: 10/21/22

Chromium, Hexavalent 24.1 0.30 mg/kg dry 26.2 ND 91.8 75-125 9.59 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0538 - General Preparation**

**Blank (BFJ0538-BLK1)**

Prepared: 10/20/22 Analyzed: 10/22/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0538-BS1)**

Prepared: 10/20/22 Analyzed: 10/22/22

Calcium	5.62	0.0500	mg/L wet	5.00	112	70-130
Magnesium	5.25	0.0500	"	5.00	105	70-130
Sodium	5.18	0.0500	"	5.00	104	70-130

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0461 - General Preparation**

**Duplicate (BFJ0461-DUP1)**

**Source: 2209510-03**

Prepared: 10/18/22 Analyzed: 10/19/22

% Solids	95.7	%	96.1	0.411	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting			Spike	Source	%REC		RPD		
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

**Batch BFJ0596 - General Preparation**

**Blank (BFJ0596-BLK1)**

Prepared & Analyzed: 10/21/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0596-BS1)**

Prepared & Analyzed: 10/21/22

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.8 95-105

**Duplicate (BFJ0596-DUP1)**

**Source: 2210217-05**

Prepared & Analyzed: 10/21/22

Specific Conductance (EC) 0.293 0.0100 mmhos/cm 0.296 1.15 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0595 - General Preparation**

**LCS (BFJ0595-BS1)**

Prepared & Analyzed: 10/21/22

pH	9.00	pH Units	9.18	98.0	95-105
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**Duplicate (BFJ0595-DUP1)**

Source: 2210217-05

Prepared & Analyzed: 10/21/22

pH	7.79	pH Units	7.71	1.03	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:19

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

November 08, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210277

Enclosed are the results of analyses for samples received by Summit Scientific on 10/17/22 17:31. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3EX07@6	2210277-01	Soil	10/17/22 13:00	10/17/22 17:31
3EX07@11	2210277-02	Soil	10/17/22 13:15	10/17/22 17:31
3EX08@6	2210277-03	Soil	10/17/22 14:00	10/17/22 17:31
3EX08@11	2210277-04	Soil	10/17/22 14:15	10/17/22 17:31
3EX09@6	2210277-05	Soil	10/17/22 14:45	10/17/22 17:31
3EX09@11	2210277-06	Soil	10/17/22 14:30	10/17/22 17:31

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

S<sub>2</sub>

2210277

Bill to PDC

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Page 1 of 1

Address:

E-Mail: bbaugh@entradainc.com, PDC EHS

City/State/Zip:

cc: everyser@entradainc.com, nyourd@entradainc.com

Phone: 412-337-5122

Project Name: Mershon Pad

Sampler Name: Nick Yourd

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	FULL TABLE 915-1								See Notes
1	3EX0706	10/17/22	1300	2			X			X											
2	3EX07011		1315																		
3	3EX0806		1400																		
4	3EX08011		1415																		
5	3EX0906		1445																		
6	3EX09011		1430																		
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/17/22 1730</u>	Received by: <u>Shane Bauer</u>	Date/Time: <u>10/17/22 17:31</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	Sameday BTEXN, TMO's TPH Standard Table 915-1
				24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>20.2</u>	Corrected Temperature _____	HNO3 lot # _____		Sample Integrity: <u>Yes</u> No	
IR gun correction: _____	IR gun #: _____				

S<sub>2</sub>

2210277

S2 Work Order#

## Sample Receipt Checklist

Client: Entrada Consulting Group Client Project ID: Mershon PacShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 20.2Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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 ice
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
S3  
 Custodian Printed Name

10/17/22 17:31  
 Date/Time



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@6**  
**2210277-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0414	10/17/22	10/17/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		92.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0415	"	10/17/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		137 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@6**  
**2210277-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0502	10/20/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		86.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0638</b>	0.0100	mg/L	1	BFJ0471	10/18/22	10/19/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@6**  
**2210277-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	5.87	0.239	mg/kg dry	1	BFJ0427	10/17/22	10/18/22	EPA 6020B
Barium	72.2	0.478	"	"	"	"	"	"
Cadmium	ND	0.239	"	"	"	"	"	"
Copper	6.51	0.478	"	"	"	"	"	"
Lead	8.21	0.239	"	"	"	"	"	"
Nickel	6.86	0.478	"	"	"	"	"	"
Selenium	ND	0.311	"	"	"	"	"	"
Silver	0.0497	0.0239	"	"	"	"	11/02/22	"
Zinc	28.1	0.478	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0577	10/21/22	10/22/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.2	0.0598	mg/L dry	1	BFJ0641	10/24/22	10/25/22	EPA 6020B	
Magnesium	27.1	0.0598	"	"	"	"	"	"	
Sodium	34.9	0.0598	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.972	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@6**  
**2210277-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BFJ0462	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.666	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/17/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@11**  
**2210277-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0414	10/17/22	10/17/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0415	"	10/17/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		144 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@11**  
**2210277-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0502	10/20/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		41.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		101 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0778</b>	0.0100	mg/L	1	BFJ0471	10/18/22	10/19/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@11**  
**2210277-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.56	0.249	mg/kg dry	1	BFJ0427	10/17/22	10/18/22	EPA 6020B
Barium	76.8	0.499	"	"	"	"	"	"
Cadmium	ND	0.249	"	"	"	"	"	"
Copper	8.04	0.499	"	"	"	"	"	"
Lead	9.60	0.249	"	"	"	"	"	"
Nickel	7.29	0.499	"	"	"	"	"	"
Selenium	ND	0.324	"	"	"	"	"	"
Silver	0.0659	0.0249	"	"	"	"	11/02/22	"
Zinc	33.1	0.499	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0577	10/21/22	10/22/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.0	0.0624	mg/L dry	1	BFJ0641	10/24/22	10/25/22	EPA 6020B	
Magnesium	38.3	0.0624	"	"	"	"	"	"	
Sodium	42.7	0.0624	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX07@11**  
**2210277-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BFJ0462	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.784	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/17/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.55		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@6**  
**2210277-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0414	10/17/22	10/17/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0415	"	10/17/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		131 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@6**  
**2210277-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0502	10/20/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0276</b>	0.0100	mg/L	1	BFJ0471	10/18/22	10/19/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@6**  
**2210277-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.97	0.233	mg/kg dry	1	BFJ0427	10/17/22	10/18/22	EPA 6020B
Barium	39.3	0.465	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	6.10	0.465	"	"	"	"	"	"
Lead	7.36	0.233	"	"	"	"	"	"
Nickel	6.38	0.465	"	"	"	"	"	"
Selenium	ND	0.303	"	"	"	"	"	"
Silver	0.0484	0.0233	"	"	"	"	11/02/22	"
Zinc	26.3	0.465	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0577	10/21/22	10/22/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.2	0.0582	mg/L dry	1	BFJ0641	10/24/22	10/25/22	EPA 6020B	
Magnesium	34.1	0.0582	"	"	"	"	"	"	
Sodium	78.3	0.0582	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.02	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@6**  
**2210277-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	BFJ0462	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.879	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@11**  
**2210277-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0414	10/17/22	10/17/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0415	"	10/17/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@11**  
**2210277-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0502	10/20/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		96.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0471	10/18/22	10/19/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@11**  
**2210277-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.70	0.232	mg/kg dry	1	BFJ0427	10/17/22	10/18/22	EPA 6020B
Barium	49.0	0.464	"	"	"	"	"	"
Cadmium	ND	0.232	"	"	"	"	"	"
Copper	4.65	0.464	"	"	"	"	"	"
Lead	4.86	0.232	"	"	"	"	"	"
Nickel	5.55	0.464	"	"	"	"	"	"
Selenium	ND	0.301	"	"	"	"	"	"
Silver	0.0232	0.0232	"	"	"	"	11/02/22	"
Zinc	18.4	0.464	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0577	10/21/22	10/22/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	515	0.0580	mg/L dry	1	BFJ0641	10/24/22	10/25/22	EPA 6020B	
Magnesium	82.4	0.0580	"	"	"	"	"	"	
Sodium	54.0	0.0580	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.583	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX08@11**  
**2210277-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BFJ0462	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.88	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX09@6**  
**2210277-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0414	10/17/22	10/17/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0415	"	10/17/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		122 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: [none]  
Project Manager: Ben Baugh

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11/08/22 12:46

**3EX09@6**  
**2210277-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0502	10/20/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		90.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0121</b>	0.0100	mg/L	1	BFJ0471	10/18/22	10/19/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX09@6**  
**2210277-05 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	4.37	0.234	mg/kg dry	1	BFJ0427	10/17/22	10/18/22	EPA 6020B
Barium	68.8	0.467	"	"	"	"	"	"
Cadmium	ND	0.234	"	"	"	"	"	"
Copper	5.18	0.467	"	"	"	"	"	"
Lead	6.55	0.234	"	"	"	"	"	"
Nickel	5.91	0.467	"	"	"	"	"	"
Selenium	ND	0.304	"	"	"	"	"	"
Silver	0.0332	0.0234	"	"	"	"	11/02/22	"
Zinc	24.5	0.467	"	"	"	"	10/18/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0577	10/21/22	10/22/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.9	0.0584	mg/L dry	1	BFJ0641	10/24/22	10/25/22	EPA 6020B	
Magnesium	32.9	0.0584	"	"	"	"	"	"	
Sodium	38.9	0.0584	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX09@6**  
**2210277-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BFJ0462	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.727	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX09@11**  
**2210277-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0414	10/17/22	10/17/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0415	"	10/17/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		122 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX09@11**  
**2210277-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0502	10/20/22	10/20/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		106 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0471	10/18/22	10/19/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX09@11**  
**2210277-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	5.42	0.209	mg/kg dry	1	BFJ0427	10/17/22	10/18/22	EPA 6020B
Barium	25.0	0.419	"	"	"	"	"	"
Cadmium	ND	0.209	"	"	"	"	"	"
Copper	3.62	0.419	"	"	"	"	"	"
Lead	3.35	0.209	"	"	"	"	"	"
Nickel	3.32	0.419	"	"	"	"	"	"
Selenium	ND	0.272	"	"	"	"	"	"
Silver	ND	0.0209	"	"	"	"	11/02/22	"
Zinc	12.3	0.419	"	"	"	"	10/18/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0577	10/21/22	10/22/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.3	0.0524	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	17.5	0.0524	"	"	"	"	"	"	
Sodium	17.4	0.0524	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.608	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**3EX09@11**  
**2210277-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BFJ0462	10/18/22	10/19/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.474	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/17/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0414 - EPA 5030 Soil MS

##### Blank (BFJ0414-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0400		90.8	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	50-150			

##### LCS (BFJ0414-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	0.0921	0.0020	mg/kg	0.100		92.1	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.240	0.010	"	0.200		120	70-130			
o-Xylene	0.0956	0.0050	"	0.100		95.6	70-130			
1,2,4-Trimethylbenzene	0.0887	0.0050	"	0.100		88.7	70-130			
1,3,5-Trimethylbenzene	0.0923	0.0050	"	0.100		92.3	70-130			
Naphthalene	0.105	0.0038	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.6	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150			

##### Matrix Spike (BFJ0414-MS1)

Source: 2210269-04

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	0.0933	0.0020	mg/kg	0.100	ND	93.3	70-130			
Toluene	0.109	0.0050	"	0.100	ND	109	70-130			
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
m,p-Xylene	0.217	0.010	"	0.200	ND	108	70-130			
o-Xylene	0.0996	0.0050	"	0.100	ND	99.6	70-130			
1,2,4-Trimethylbenzene	0.0935	0.0050	"	0.100	ND	93.5	70-130			
1,3,5-Trimethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
Naphthalene	0.0899	0.0038	"	0.100	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0414 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0414-MSD1)		Source: 2210269-04			Prepared: 10/17/22 Analyzed: 10/18/22					
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	11.3	30	
Toluene	0.103	0.0050	"	0.100	ND	103	70-130	6.00	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	5.17	30	
m,p-Xylene	0.236	0.010	"	0.200	ND	118	70-130	8.81	30	
o-Xylene	0.0955	0.0050	"	0.100	ND	95.5	70-130	4.21	30	
1,2,4-Trimethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130	3.36	30	
1,3,5-Trimethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130	6.27	30	
Naphthalene	0.0928	0.0038	"	0.100	ND	92.8	70-130	3.22	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.3	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		107	50-150			

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0415 - EPA 3550A**

**Blank (BFJ0415-BLK1)**

Prepared: 10/17/22 Analyzed: 10/18/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.2		"	12.5		130	30-150			

**LCS (BFJ0415-BS1)**

Prepared: 10/17/22 Analyzed: 10/18/22

C10-C28 (DRO)	634	50	mg/kg	500		127	70-130			
Surrogate: o-Terphenyl	11.3		"	12.5		90.1	30-150			

**Matrix Spike (BFJ0415-MS1)**

Source: 2210269-04

Prepared: 10/17/22 Analyzed: 10/18/22

C10-C28 (DRO)	600	50	mg/kg	500	21.0	116	70-130			
Surrogate: o-Terphenyl	11.1		"	12.5		89.0	30-150			

**Matrix Spike Dup (BFJ0415-MSD1)**

Source: 2210269-04

Prepared: 10/17/22 Analyzed: 10/18/22

C10-C28 (DRO)	613	50	mg/kg	500	21.0	118	70-130	2.23	20	
Surrogate: o-Terphenyl	12.8		"	12.5		102	30-150			

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0502 - EPA 5030 Soil MS

##### Blank (BFJ0502-BLK1)

Prepared & Analyzed: 10/20/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.2	40-150			
Surrogate: Fluoranthene-d10	0.0370		"	0.0333		111	40-150			

##### LCS (BFJ0502-BS1)

Prepared & Analyzed: 10/20/22

Acenaphthene	0.0356	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0280	0.00500	"	0.0333	83.9	30-120
Benzo (a) anthracene	0.0307	0.00500	"	0.0333	92.1	30-120
Benzo (a) pyrene	0.0196	0.00500	"	0.0333	58.9	30-120
Benzo (b) fluoranthene	0.0159	0.00500	"	0.0333	47.7	30-120
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	44.7	30-120
Chrysene	0.0374	0.00500	"	0.0333	112	30-120
Dibenz (a,h) anthracene	0.0168	0.00500	"	0.0333	50.4	30-120
Fluoranthene	0.0304	0.00500	"	0.0333	91.3	30-120
Fluorene	0.0312	0.00500	"	0.0333	93.6	30-120
Indeno (1,2,3-cd) pyrene	0.0229	0.00500	"	0.0333	68.6	30-120
Pyrene	0.0372	0.00500	"	0.0333	111	35-142
1-Methylnaphthalene	0.0323	0.00500	"	0.0333	96.9	35-142
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	59.5	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0373		"	0.0333	112	40-150
Surrogate: Fluoranthene-d10	0.0233		"	0.0333	69.8	40-150

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike		Source		%REC		RPD	
	Result	Limit	Units	Level		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0502 - EPA 5030 Soil MS

Matrix Spike (BFJ0502-MS1)			Source: 2210248-01			Prepared & Analyzed: 10/20/22					
Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.8	31-137				
Anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Benzo (a) anthracene	0.0260	0.00500	"	0.0333	ND	78.0	30-120				
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	47.9	30-120				
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.7	30-120				
Benzo (k) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.3	30-120				
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	30-120				
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.0	30-120				
Fluoranthene	0.0301	0.00500	"	0.0333	ND	90.4	30-120				
Fluorene	0.0195	0.00500	"	0.0333	ND	58.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0188	0.00500	"	0.0333	ND	56.5	30-120				
Pyrene	0.0172	0.00500	"	0.0333	ND	51.7	35-142				
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.3	15-130				
2-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.8	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0260		"	0.0333		78.1	40-150				
Surrogate: Fluoranthene-d10	0.0345		"	0.0333		103	40-150				

Matrix Spike Dup (BFJ0502-MSD1)			Source: 2210248-01			Prepared & Analyzed: 10/20/22					
Acenaphthene	0.0236	0.00500	mg/kg	0.0333	ND	70.7	31-137	2.74	30		
Anthracene	0.0261	0.00500	"	0.0333	ND	78.2	30-120	30.9	30		QR-02
Benzo (a) anthracene	0.0301	0.00500	"	0.0333	ND	90.2	30-120	14.4	30		
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	1.76	30		
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	6.13	30		
Benzo (k) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	2.00	30		
Chrysene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	9.32	30		
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	2.28	30		
Fluoranthene	0.0299	0.00500	"	0.0333	ND	89.6	30-120	0.894	30		
Fluorene	0.0217	0.00500	"	0.0333	ND	65.0	30-120	10.4	30		
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	8.52	30		
Pyrene	0.0219	0.00500	"	0.0333	ND	65.8	35-142	24.1	30		
1-Methylnaphthalene	0.0253	0.00500	"	0.0333	ND	75.9	15-130	12.0	50		
2-Methylnaphthalene	0.0180	0.00500	"	0.0333	ND	54.1	15-130	6.25	50		
Surrogate: 2-Methylnaphthalene-d10	0.0296		"	0.0333		88.8	40-150				
Surrogate: Fluoranthene-d10	0.0359		"	0.0333		108	40-150				

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0471 - EPA 3050B**

**Blank (BFJ0471-BLK1)**

Prepared: 10/18/22 Analyzed: 10/19/22

Boron ND 0.0100 mg/L

**LCS (BFJ0471-BS1)**

Prepared: 10/18/22 Analyzed: 10/19/22

Boron 5.99 0.0100 mg/L 5.00 120 80-120

**Duplicate (BFJ0471-DUP1)**

**Source: 2210251-01**

Prepared: 10/18/22 Analyzed: 10/19/22

Boron 0.0701 0.0100 mg/L 0.0799 13.0 20

**Matrix Spike (BFJ0471-MS1)**

**Source: 2210251-01**

Prepared: 10/18/22 Analyzed: 10/19/22

Boron 5.47 0.0100 mg/L 5.00 0.0799 108 75-125

**Matrix Spike Dup (BFJ0471-MSD1)**

**Source: 2210251-01**

Prepared: 10/18/22 Analyzed: 10/19/22

Boron 5.77 0.0100 mg/L 5.00 0.0799 114 75-125 5.36 25

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0427 - EPA 3050B**

**Blank (BFJ0427-BLK1)**

Prepared: 10/17/22 Analyzed: 10/18/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0427-BS1)**

Prepared: 10/17/22 Analyzed: 10/18/22

Arsenic	38.0	0.200	mg/kg wet	40.0	95.0	80-120
Barium	33.7	0.400	"	40.0	84.2	80-120
Cadmium	1.67	0.200	"	2.00	83.3	80-120
Copper	40.9	0.400	"	40.0	102	80-120
Lead	16.2	0.200	"	20.0	80.9	80-120
Nickel	38.4	0.400	"	40.0	96.1	80-120
Selenium	3.81	0.260	"	4.00	95.2	80-120
Silver	2.10	0.0200	"	2.00	105	80-120
Zinc	39.0	0.400	"	40.0	97.5	80-120

**Duplicate (BFJ0427-DUP1)**

Source: 2210251-01

Prepared: 10/17/22 Analyzed: 10/18/22

Arsenic	6.03	0.238	mg/kg dry	6.39	5.81	20
Barium	91.8	0.476	"	95.0	3.42	20
Cadmium	0.270	0.238	"	0.298	9.73	20
Copper	7.46	0.476	"	7.64	2.36	20
Lead	6.99	0.238	"	7.34	5.00	20
Nickel	7.68	0.476	"	7.87	2.52	20
Selenium	ND	0.309	"	ND		20
Silver	8.67	0.0238	"	10.3	17.5	20
Zinc	23.6	0.476	"	24.0	1.81	20

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0427 - EPA 3050B**

Matrix Spike (BFJ0427-MS1)		Source: 2210251-01			Prepared: 10/17/22		Analyzed: 10/18/22			
Arsenic	52.9	0.238	mg/kg dry	47.6	6.39	97.8	75-125			
Barium	141	0.476	"	47.6	95.0	96.9	75-125			
Cadmium	2.09	0.238	"	2.38	0.298	75.2	75-125			
Copper	35.5	0.476	"	47.6	7.64	58.5	75-125			QM-05
Lead	25.9	0.238	"	23.8	7.34	77.9	75-125			
Nickel	35.3	0.476	"	47.6	7.87	57.6	75-125			QM-05
Selenium	4.20	0.309	"	4.76	ND	88.3	75-125			
Silver	6.31	0.0238	"	2.38	10.3	NR	75-125			QM-05
Zinc	64.0	0.476	"	47.6	24.0	83.9	75-125			

Matrix Spike Dup (BFJ0427-MSD1)		Source: 2210251-01			Prepared: 10/17/22		Analyzed: 10/18/22			
Arsenic	51.5	0.238	mg/kg dry	47.6	6.39	94.8	75-125	2.67	25	
Barium	144	0.476	"	47.6	95.0	102	75-125	1.64	25	
Cadmium	2.10	0.238	"	2.38	0.298	75.9	75-125	0.795	25	
Copper	35.3	0.476	"	47.6	7.64	58.2	75-125	0.409	25	QM-05
Lead	26.4	0.238	"	23.8	7.34	80.1	75-125	2.01	25	
Nickel	34.9	0.476	"	47.6	7.87	56.8	75-125	1.01	25	QM-05
Selenium	4.19	0.309	"	4.76	ND	88.0	75-125	0.318	25	
Silver	6.63	0.0238	"	2.38	10.3	NR	75-125	4.86	25	QM-05
Zinc	63.8	0.476	"	47.6	24.0	83.5	75-125	0.282	25	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0577 - 3060A Mod**

**Blank (BFJ0577-BLK1)**

Prepared: 10/21/22 Analyzed: 10/22/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0577-BS1)**

Prepared: 10/21/22 Analyzed: 10/22/22

Chromium, Hexavalent 22.4 0.30 mg/kg wet 25.0 89.4 80-120

**Duplicate (BFJ0577-DUP1)**

**Source: 2210277-06**

Prepared: 10/21/22 Analyzed: 10/22/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0577-MS1)**

**Source: 2210277-06**

Prepared: 10/21/22 Analyzed: 10/22/22

Chromium, Hexavalent 24.6 0.30 mg/kg dry 26.2 ND 94.0 75-125

**Matrix Spike Dup (BFJ0577-MSD1)**

**Source: 2210277-06**

Prepared: 10/21/22 Analyzed: 10/22/22

Chromium, Hexavalent 26.6 0.30 mg/kg dry 26.2 ND 102 75-125 7.77 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0641 - General Preparation**

**Blank (BFJ0641-BLK1)**

Prepared: 10/24/22 Analyzed: 10/25/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0641-BS1)**

Prepared: 10/24/22 Analyzed: 10/25/22

Calcium	4.60	0.0500	mg/L wet	5.00	91.9	70-130
Magnesium	5.03	0.0500	"	5.00	101	70-130
Sodium	5.21	0.0500	"	5.00	104	70-130

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0462 - General Preparation**

Duplicate (BFJ0462-DUP1)		Source: 2210240-01			Prepared: 10/18/22 Analyzed: 10/19/22					
% Solids	80.1		%		78.4		2.10		20	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting			Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BFJ0683 - General Preparation**

**Blank (BFJ0683-BLK1)**

Prepared & Analyzed: 10/25/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0683-BS1)**

Prepared & Analyzed: 10/25/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFJ0683-DUP1)**

**Source: 2210277-01**

Prepared & Analyzed: 10/25/22

Specific Conductance (EC) 0.664 0.0100 mmhos/cm 0.666 0.241 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BFJ0684 - General Preparation**

**LCS (BFJ0684-BS1)**

Prepared: 10/25/22 Analyzed: 10/26/22

pH	9.20	pH Units	9.18	100	95-105
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**Duplicate (BFJ0684-DUP1)**

**Source: 2210277-01**

Prepared: 10/25/22 Analyzed: 10/26/22

pH	7.80	pH Units	8.28	5.97	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/08/22 12:46

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

November 09, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210303

Enclosed are the results of analyses for samples received by Summit Scientific on 10/18/22 18:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3EX10@6	2210303-01	Soil	10/18/22 09:30	10/18/22 18:35
3EX10@11	2210303-02	Soil	10/18/22 09:45	10/18/22 18:35
3EX11@6	2210303-03	Soil	10/18/22 13:30	10/18/22 18:35
3EX11@11	2210303-04	Soil	10/18/22 13:45	10/18/22 18:35
3EX12@13	2210303-05	Soil	10/18/22 14:30	10/18/22 18:35
3EX13@13	2210303-06	Soil	10/18/22 14:45	10/18/22 18:35
3EX14@6	2210303-07	Soil	10/18/22 15:00	10/18/22 18:35
3EX14@11	2210303-08	Soil	10/18/22 15:15	10/18/22 18:35
GW03	2210303-09	Water	10/18/22 11:00	10/18/22 18:35

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.*

$S_2$ 

Bill to PDC

Project Manager: Ben Baugh

Page / of /

E-Mail: [bbaugh@entrada.com](mailto:bbaugh@entrada.com), PDC/EHS

cc: cveryser@entradainc.com, nyourd@entradainc.com

Project Name: 'MerShon PAD'

Project Number:

see notes





## Sample Receipt Checklist

S2 Work Order# 2210303

Client: Entrada Consulting Group Client Project ID: Mershon PADShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_☒ ☐ ☐ ☐ ☐Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.8Thermometer # 

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>   				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

CS

Custodian Printed Name

10/18/22

Date/Time





Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@6**  
**2210303-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		132 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		132 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/18/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@6**  
**2210303-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0961</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/20/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@6**  
**2210303-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.52	0.228	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	55.0	0.455	"	"	"	"	"	"
Cadmium	ND	0.228	"	"	"	"	"	"
Copper	5.57	0.455	"	"	"	"	"	"
Lead	6.67	0.228	"	"	"	"	"	"
Nickel	6.07	0.455	"	"	"	"	"	"
Selenium	ND	0.296	"	"	"	"	"	"
Silver	0.0323	0.0228	"	"	"	"	11/08/22	"
Zinc	25.4	0.455	"	"	"	"	10/20/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.5	0.0569	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	31.6	0.0569	"	"	"	"	"	"	
Sodium	52.1	0.0569	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.44	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@6**  
**2210303-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.764	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@11**  
**2210303-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		127 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/18/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		93.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@11**  
**2210303-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		92.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0961</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/20/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@11**  
**2210303-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.01	0.217	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	30.5	0.435	"	"	"	"	"	"
Cadmium	ND	0.217	"	"	"	"	"	"
Copper	3.34	0.435	"	"	"	"	"	"
Lead	3.57	0.217	"	"	"	"	"	"
Nickel	3.53	0.435	"	"	"	"	"	"
Selenium	ND	0.282	"	"	"	"	"	"
Silver	ND	0.0217	"	"	"	"	11/08/22	"
Zinc	13.3	0.435	"	"	"	"	10/20/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.9	0.0543	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	38.5	0.0543	"	"	"	"	"	"	
Sodium	42.7	0.0543	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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 Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX10@11**  
**2210303-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.764	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX11@6**  
**2210303-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		141 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		125 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/18/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		83.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX11@6**  
**2210303-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.109</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/20/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX11@6**  
**2210303-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.74	0.241	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	55.7	0.482	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	6.47	0.482	"	"	"	"	"	"
Lead	6.61	0.241	"	"	"	"	"	"
Nickel	6.60	0.482	"	"	"	"	"	"
Selenium	ND	0.314	"	"	"	"	"	"
Silver	0.0357	0.0241	"	"	"	"	11/08/22	"
Zinc	28.0	0.482	"	"	"	"	10/20/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.8	0.0603	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	26.9	0.0603	"	"	"	"	"	"	
Sodium	41.9	0.0603	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.25	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX11@6**  
**2210303-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.9		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.627	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX11@11**  
**2210303-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		138 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		92.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

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11/09/22 08:52

**3EX11@11**  
**2210303-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		83.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.112</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX11@11**  
**2210303-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.84	0.237	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	75.1	0.473	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	6.64	0.473	"	"	"	"	"	"
Lead	6.40	0.237	"	"	"	"	"	"
Nickel	7.22	0.473	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"
Silver	0.0275	0.0237	"	"	"	"	11/08/22	"
Zinc	25.4	0.473	"	"	"	"	10/20/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	97.6	0.0592	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	60.7	0.0592	"	"	"	"	"	"	
Sodium	57.7	0.0592	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.13	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX11@11**  
**2210303-04 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.21	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX12@13**  
**2210303-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		130 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		143 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX12@13**  
**2210303-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		89.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0809</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX12@13**  
**2210303-05 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.32	0.230	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	26.1	0.461	"	"	"	"	"	"
Cadmium	ND	0.230	"	"	"	"	"	"
Copper	3.54	0.461	"	"	"	"	"	"
Lead	3.27	0.230	"	"	"	"	"	"
Nickel	4.13	0.461	"	"	"	"	"	"
Selenium	ND	0.299	"	"	"	"	"	"
Silver	ND	0.0230	"	"	"	"	11/08/22	"
Zinc	14.2	0.461	"	"	"	"	10/20/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.1	0.0576	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	22.0	0.0576	"	"	"	"	"	"	
Sodium	53.6	0.0576	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.36	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX12@13**  
**2210303-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.863	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX13@13**  
**2210303-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		133 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		136 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX13@13**  
**2210303-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		81.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.103</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

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11/09/22 08:52

**3EX13@13**  
**2210303-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.19	0.236	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	21.4	0.472	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
Copper	2.75	0.472	"	"	"	"	"	"
Lead	2.65	0.236	"	"	"	"	"	"
Nickel	3.03	0.472	"	"	"	"	"	"
Selenium	ND	0.307	"	"	"	"	"	"
Silver	ND	0.0236	"	"	"	"	11/08/22	"
Zinc	12.2	0.472	"	"	"	"	10/20/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	91.7	0.0590	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	17.9	0.0590	"	"	"	"	"	"	
Sodium	49.4	0.0590	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.23	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX13@13**  
**2210303-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.857	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX14@6**  
**2210303-07 (Soil)**

### Summit Scientific

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %	50-150		"	"	"	"	

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.5 %	30-150		"	"	"	"	

#### PAH by EPA Method 8270D SIM

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX14@6**  
**2210303-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.113</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX14@6**  
**2210303-07 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.66	0.241	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	52.6	0.482	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	5.51	0.482	"	"	"	"	"	"
Lead	6.34	0.241	"	"	"	"	"	"
Nickel	5.69	0.482	"	"	"	"	"	"
Selenium	ND	0.313	"	"	"	"	"	"
Silver	0.0492	0.0241	"	"	"	"	11/08/22	"
Zinc	24.7	0.482	"	"	"	"	10/20/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	98.6	0.0603	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	57.0	0.0603	"	"	"	"	"	"	
Sodium	51.0	0.0603	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

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11/09/22 08:52

**3EX14@6**  
**2210303-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX14@11**  
**2210303-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0457	10/18/22	10/18/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		134 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		140 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0458	10/18/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		89.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX14@11**  
**2210303-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0636	10/24/22	10/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		88.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0940</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX14@11**  
**2210303-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.64	0.233	mg/kg dry	1	BFJ0519	10/20/22	10/20/22	EPA 6020B
Barium	56.2	0.466	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	5.06	0.466	"	"	"	"	"	"
Lead	4.86	0.233	"	"	"	"	"	"
Nickel	5.75	0.466	"	"	"	"	"	"
Selenium	ND	0.303	"	"	"	"	"	"
Silver	0.0299	0.0233	"	"	"	"	11/08/22	"
Zinc	20.2	0.466	"	"	"	"	10/20/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	76.5	0.0583	mg/L dry	1	BFJ0641	10/24/22	10/26/22	EPA 6020B	
Magnesium	45.6	0.0583	"	"	"	"	"	"	
Sodium	46.3	0.0583	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BFJ0722	10/26/22	10/26/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**3EX14@11**  
**2210303-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BFJ0506	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.972	0.0100	mmhos/cm	1	BFJ0683	10/25/22	10/25/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/18/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BFJ0684	10/25/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**GW03**  
**2210303-09 (Water)**

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**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/18/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0459	10/18/22	10/19/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/18/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0457 - EPA 5030 Soil MS

##### Blank (BFJ0457-BLK1)

Prepared: 10/18/22 Analyzed: 10/19/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		92.9	50-150			
Surrogate: Toluene-d8	0.0421		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0441		"	0.0400		110	50-150			

##### LCS (BFJ0457-BS1)

Prepared: 10/18/22 Analyzed: 10/19/22

Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.233	0.010	"	0.200		117	70-130			
o-Xylene	0.0965	0.0050	"	0.100		96.5	70-130			
1,2,4-Trimethylbenzene	0.0890	0.0050	"	0.100		89.0	70-130			
1,3,5-Trimethylbenzene	0.0932	0.0050	"	0.100		93.2	70-130			
Naphthalene	0.0867	0.0038	"	0.100		86.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.6	50-150			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	50-150			

##### Matrix Spike (BFJ0457-MS1)

Source: 2210296-01

Prepared: 10/18/22 Analyzed: 10/19/22

Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130			
Toluene	0.108	0.0050	"	0.100	ND	108	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.235	0.010	"	0.200	ND	118	70-130			
o-Xylene	0.0970	0.0050	"	0.100	ND	97.0	70-130			
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130			
1,3,5-Trimethylbenzene	0.0953	0.0050	"	0.100	ND	95.3	70-130			
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	50-150			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0442		"	0.0400		110	50-150			

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0457 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0457-MSD1)		Source: 2210296-01		Prepared: 10/18/22 Analyzed: 10/19/22						
Benzene	0.0998	0.0020	mg/kg	0.100	ND	99.8	70-130	0.958	30	
Toluene	0.108	0.0050	"	0.100	ND	108	70-130	0.0278	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	0.228	30	
m,p-Xylene	0.234	0.010	"	0.200	ND	117	70-130	0.640	30	
o-Xylene	0.0946	0.0050	"	0.100	ND	94.6	70-130	2.57	30	
1,2,4-Trimethylbenzene	0.0893	0.0050	"	0.100	ND	89.3	70-130	1.43	30	
1,3,5-Trimethylbenzene	0.0930	0.0050	"	0.100	ND	93.0	70-130	2.39	30	
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130	0.958	30	
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.7	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		108	50-150			

**Batch BFJ0459 - EPA 5030 Water MS**

Blank (BFJ0459-BLK1)		Prepared: 10/18/22 Analyzed: 10/19/22								
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

LCS (BFJ0459-BS1)		Prepared: 10/18/22 Analyzed: 10/19/22								
Benzene	29.3	1.0	ug/l	33.3		87.8	51-132			
Toluene	33.7	1.0	"	33.3		101	51-138			
Ethylbenzene	31.7	1.0	"	33.3		95.1	58-146			
m,p-Xylene	75.8	2.0	"	66.7		114	57-144			
o-Xylene	34.9	1.0	"	33.3		105	53-146			
Naphthalene	36.1	1.0	"	33.3		108	70-130			
1,2,4-Trimethylbenzene	37.7	1.0	"	33.3		113	70-130			
1,3,5-Trimethylbenzene	35.8	1.0	"	33.3		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0459 - EPA 5030 Water MS**

Matrix Spike (BFJ0459-MS1)		Source: 2210289-01			Prepared: 10/18/22 Analyzed: 10/19/22					
Benzene	29.5	1.0	ug/l	33.3	ND	88.4	34-141			
Toluene	35.1	1.0	"	33.3	ND	105	27-151			
Ethylbenzene	33.8	1.0	"	33.3	ND	101	29-160			
m,p-Xylene	78.8	2.0	"	66.7	ND	118	20-166			
o-Xylene	31.5	1.0	"	33.3	ND	94.5	33-159			
Naphthalene	27.8	1.0	"	33.3	ND	83.5	70-130			
1,2,4-Trimethylbenzene	32.1	1.0	"	33.3	ND	96.2	70-130			
1,3,5-Trimethylbenzene	34.5	1.0	"	33.3	ND	104	70-130			
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	21-167			
<hr/>										
Matrix Spike Dup (BFJ0459-MSD1)		Source: 2210289-01			Prepared: 10/18/22 Analyzed: 10/19/22					
Benzene	29.3	1.0	ug/l	33.3	ND	87.9	34-141	0.579	30	
Toluene	34.0	1.0	"	33.3	ND	102	27-151	3.33	30	
Ethylbenzene	33.3	1.0	"	33.3	ND	99.9	29-160	1.40	30	
m,p-Xylene	80.0	2.0	"	66.7	ND	120	20-166	1.46	30	
o-Xylene	31.1	1.0	"	33.3	ND	93.4	33-159	1.25	30	
Naphthalene	30.5	1.0	"	33.3	ND	91.5	70-130	9.12	30	
1,2,4-Trimethylbenzene	31.8	1.0	"	33.3	ND	95.4	70-130	0.877	30	
1,3,5-Trimethylbenzene	34.8	1.0	"	33.3	ND	104	70-130	0.721	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

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Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0458 - EPA 3550A**

**Blank (BFJ0458-BLK1)**

Prepared & Analyzed: 10/18/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

Surrogate: o-Terphenyl	15.3	"	12.5	122	30-150
------------------------	------	---	------	-----	--------

**LCS (BFJ0458-BS1)**

Prepared & Analyzed: 10/18/22

C10-C28 (DRO)	532	50	mg/kg	500	106	70-130
Surrogate: o-Terphenyl	16.9	"	12.5	135	30-150	

**Matrix Spike (BFJ0458-MS1)**

Source: 2210296-01

Prepared & Analyzed: 10/18/22

C10-C28 (DRO)	522	50	mg/kg	500	25.3	99.4	70-130
Surrogate: o-Terphenyl	16.7	"	12.5	134	30-150		

**Matrix Spike Dup (BFJ0458-MSD1)**

Source: 2210296-01

Prepared & Analyzed: 10/18/22

C10-C28 (DRO)	587	50	mg/kg	500	25.3	112	70-130	11.8	20
Surrogate: o-Terphenyl	15.0	"	12.5	120	30-150				

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**PAH by EPA Method 8270D SIM - Quality Control**  
**Summit Scientific**

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0636 - EPA 5030 Soil MS**

**Blank (BFJ0636-BLK1)**

Prepared & Analyzed: 10/24/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0334		"	0.0333		100	40-150			
Surrogate: Fluoranthene-d10	0.0316		"	0.0333		94.9	40-150			

**LCS (BFJ0636-BS1)**

Prepared & Analyzed: 10/24/22

Acenaphthene	0.0365	0.00500	mg/kg	0.0333	109	31-137
Anthracene	0.0383	0.00500	"	0.0333	115	30-120
Benzo (a) anthracene	0.0336	0.00500	"	0.0333	101	30-120
Benzo (a) pyrene	0.0393	0.00500	"	0.0333	118	30-120
Benzo (b) fluoranthene	0.0393	0.00500	"	0.0333	118	30-120
Benzo (k) fluoranthene	0.0347	0.00500	"	0.0333	104	30-120
Chrysene	0.0329	0.00500	"	0.0333	98.6	30-120
Dibenz (a,h) anthracene	0.0368	0.00500	"	0.0333	111	30-120
Fluoranthene	0.0354	0.00500	"	0.0333	106	30-120
Fluorene	0.0395	0.00500	"	0.0333	119	30-120
Indeno (1,2,3-cd) pyrene	0.0351	0.00500	"	0.0333	105	30-120
Pyrene	0.0337	0.00500	"	0.0333	101	35-142
1-Methylnaphthalene	0.0386	0.00500	"	0.0333	116	35-142
2-Methylnaphthalene	0.0353	0.00500	"	0.0333	106	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0388		"	0.0333	116	40-150
Surrogate: Fluoranthene-d10	0.0348		"	0.0333	104	40-150

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0636 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0636-MS1)

Source: 2210303-01

Prepared & Analyzed: 10/24/22

Acenaphthene	0.0216	0.00500	mg/kg	0.0333	ND	64.9	31-137		
Anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Benzo (a) anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120		
Benzo (a) pyrene	0.0209	0.00500	"	0.0333	ND	62.7	30-120		
Benzo (b) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.7	30-120		
Benzo (k) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.6	30-120		
Chrysene	0.0177	0.00500	"	0.0333	ND	53.1	30-120		
Dibenz (a,h) anthracene	0.0221	0.00500	"	0.0333	ND	66.3	30-120		
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.2	30-120		
Fluorene	0.0179	0.00500	"	0.0333	ND	53.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0274	0.00500	"	0.0333	ND	82.1	30-120		
Pyrene	0.0189	0.00500	"	0.0333	ND	56.7	35-142		
1-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	56.9	15-130		
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.7	40-150		
Surrogate: Fluoranthene-d10	0.0224		"	0.0333		67.3	40-150		

##### Matrix Spike Dup (BFJ0636-MSD1)

Source: 2210303-01

Prepared & Analyzed: 10/24/22

Acenaphthene	0.0211	0.00500	mg/kg	0.0333	ND	63.4	31-137	2.35	30
Anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	8.42	30
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	2.91	30
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	4.56	30
Benzo (b) fluoranthene	0.0240	0.00500	"	0.0333	ND	71.9	30-120	3.04	30
Benzo (k) fluoranthene	0.0238	0.00500	"	0.0333	ND	71.4	30-120	2.51	30
Chrysene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	2.99	30
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120	6.00	30
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	6.73	30
Fluorene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	10.3	30
Indeno (1,2,3-cd) pyrene	0.0290	0.00500	"	0.0333	ND	87.1	30-120	5.82	30
Pyrene	0.0196	0.00500	"	0.0333	ND	58.9	35-142	3.69	30
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.6	15-130	9.61	50
2-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.0	15-130	6.35	50
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.3	40-150		
Surrogate: Fluoranthene-d10	0.0240		"	0.0333		72.0	40-150		

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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0517 - EPA 3050B**

**Blank (BFJ0517-BLK1)**

Prepared & Analyzed: 10/20/22

Boron ND 0.0100 mg/L

**LCS (BFJ0517-BS1)**

Prepared & Analyzed: 10/20/22

Boron 4.22 0.0100 mg/L 5.00 84.4 80-120

**Duplicate (BFJ0517-DUP1)**

**Source: 2210303-01**

Prepared & Analyzed: 10/20/22

Boron 0.0894 0.0100 mg/L 0.0961 7.24 20

**Matrix Spike (BFJ0517-MS1)**

**Source: 2210303-01**

Prepared & Analyzed: 10/20/22

Boron 4.08 0.0100 mg/L 5.00 0.0961 79.8 75-125

**Matrix Spike Dup (BFJ0517-MSD1)**

**Source: 2210303-01**

Prepared & Analyzed: 10/20/22

Boron 4.22 0.0100 mg/L 5.00 0.0961 82.5 75-125 3.24 25

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0519 - EPA 3050B**

**Blank (BFJ0519-BLK1)**

Prepared & Analyzed: 10/20/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0519-BS1)**

Prepared & Analyzed: 10/20/22

Arsenic	40.8	0.200	mg/kg wet	40.0	102	80-120
Barium	34.0	0.400	"	40.0	85.0	80-120
Cadmium	1.78	0.200	"	2.00	88.8	80-120
Copper	45.2	0.400	"	40.0	113	80-120
Lead	16.9	0.200	"	20.0	84.3	80-120
Nickel	42.5	0.400	"	40.0	106	80-120
Selenium	4.18	0.260	"	4.00	104	80-120
Silver	1.70	0.0200	"	2.00	85.1	80-120
Zinc	43.0	0.400	"	40.0	107	80-120

**Duplicate (BFJ0519-DUP1)**

Source: 2209464-03

Prepared & Analyzed: 10/20/22

Arsenic	1.52	0.224	mg/kg dry	1.50	0.713	20
Barium	67.0	0.449	"	68.1	1.70	20
Cadmium	0.212	0.224	"	0.217	2.51	20
Copper	6.90	0.449	"	6.95	0.771	20
Lead	8.67	0.224	"	8.86	2.20	20
Nickel	7.29	0.449	"	7.40	1.46	20
Selenium	ND	0.292	"	ND		20
Silver	2.38	0.0224	"	2.43	1.94	20
Zinc	30.2	0.449	"	30.4	0.475	20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0519 - EPA 3050B**

Matrix Spike (BFJ0519-MS1)			Source: 2209464-03		Prepared & Analyzed: 10/20/22						
Arsenic	12.3	0.224	mg/kg dry	44.9	1.50	24.2	75-125				QM-05
Barium	115	0.449	"	44.9	68.1	104	75-125				
Cadmium	2.08	0.224	"	2.24	0.217	83.0	75-125				
Copper	35.3	0.449	"	44.9	6.95	63.1	75-125				QM-05
Lead	26.9	0.224	"	22.4	8.86	80.4	75-125				
Nickel	34.9	0.449	"	44.9	7.40	61.4	75-125				QM-05
Selenium	3.75	0.292	"	4.49	ND	83.5	75-125				
Silver	4.15	0.0224	"	2.24	2.43	76.9	75-125				
Zinc	61.7	0.449	"	44.9	30.4	69.9	75-125				QM-05

Matrix Spike Dup (BFJ0519-MSD1)			Source: 2209464-03		Prepared & Analyzed: 10/20/22						
Arsenic	12.5	0.224	mg/kg dry	44.9	1.50	24.5	75-125	1.29	25		QM-05
Barium	114	0.449	"	44.9	68.1	102	75-125	0.846	25		
Cadmium	2.09	0.224	"	2.24	0.217	83.5	75-125	0.581	25		
Copper	35.8	0.449	"	44.9	6.95	64.3	75-125	1.53	25		QM-05
Lead	27.1	0.224	"	22.4	8.86	81.2	75-125	0.635	25		
Nickel	35.6	0.449	"	44.9	7.40	62.9	75-125	1.90	25		QM-05
Selenium	3.66	0.292	"	4.49	ND	81.6	75-125	2.25	25		
Silver	4.12	0.0224	"	2.24	2.43	75.6	75-125	0.705	25		
Zinc	76.5	0.449	"	44.9	30.4	103	75-125	21.4	25		

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0630 - 3060A Mod**

**Blank (BFJ0630-BLK1)**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0630-BS1)**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 105 80-120

**Duplicate (BFJ0630-DUP1)**

**Source: 2210303-01**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0630-MS1)**

**Source: 2210303-01**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent 29.1 0.30 mg/kg dry 28.4 ND 102 75-125

**Matrix Spike Dup (BFJ0630-MSD1)**

**Source: 2210303-01**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent 29.4 0.30 mg/kg dry 28.4 ND 103 75-125 0.778 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0641 - General Preparation**

**Blank (BFJ0641-BLK1)**

Prepared: 10/24/22 Analyzed: 10/25/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0641-BS1)**

Prepared: 10/24/22 Analyzed: 10/25/22

Calcium	4.60	0.0500	mg/L wet	5.00	91.9	70-130
Magnesium	5.03	0.0500	"	5.00	101	70-130
Sodium	5.21	0.0500	"	5.00	104	70-130

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]

Project Manager: Ben Baugh

**Reported:**

11/09/22 08:52

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Reporting				Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0506 - General Preparation**

Duplicate (BFJ0506-DUP1)		Source: 2210288-01		Prepared: 10/20/22 Analyzed: 10/21/22	
% Solids	88.5		%	88.7	0.271 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting			Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BFJ0683 - General Preparation**

**Blank (BFJ0683-BLK1)**

Prepared & Analyzed: 10/25/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0683-BS1)**

Prepared & Analyzed: 10/25/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFJ0683-DUP1)**

**Source: 2210277-01**

Prepared & Analyzed: 10/25/22

Specific Conductance (EC) 0.664 0.0100 mmhos/cm 0.666 0.241 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0684 - General Preparation**

**LCS (BFJ0684-BS1)**

Prepared: 10/25/22 Analyzed: 10/26/22

pH	9.20	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

**Duplicate (BFJ0684-DUP1)**

**Source: 2210277-01**

Prepared: 10/25/22 Analyzed: 10/26/22

pH	7.80	pH Units	8.28	5.97	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:52

### Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

November 09, 2022

Ben Baugh  
Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction., CO 81501  
RE: PDC - Mershon Pad  
Work Order #2210316

Enclosed are the results of analyses for samples received by Summit Scientific on 10/19/22 15:30. 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 Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3EX15@6	2210316-01	Soil	10/19/22 09:15	10/19/22 15:30
3EX15@11	2210316-02	Soil	10/19/22 09:30	10/19/22 15:30
3EX19@2.5	2210316-06	Soil	10/19/22 12:00	10/19/22 15:30
3EX20@13	2210316-07	Soil	10/19/22 12:15	10/19/22 15:30
2EX22@15	2210316-08	Soil	10/19/22 12:30	10/19/22 15:30

Summit Scientific

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# Summit Scientific

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Bill & PDC

2210316

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Page 1 of 2

Address:

E-Mail: Bbaugh@entradainc.com, PDC EHS

City/State/Zip:

Phone: 412-337-5122

Project Name: Merston Pad

Sampler Name: Nick Kovach

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full table 915-1	EC, SAR, rH	Botten						
1	3EX1506	10/19/22	0915	2			X			X			X								See notes
2	3EX15011		0930										X								
3	3EX16025		1100											X							Hold
4	3EX17025		1115											X							Hold
5	3EX18025		1130											X							Hold
6	3EX19025		1200											X							Screen
7	3EX20613	↓	1215	↓			↓			↓			X								
8	2EX22615	↓	1230	↓			↓			↓			X								
9																					
10																					

Relinquished by: [Signature]

Date/Time: 10/19/22 1530

Received by:

Date/Time:

Turn Around Time

(Check)

Same Day X

72 hours —

24 hours —

Standard X

48 hours —

Sample Integrity:

Samples Intact: (Yes) No

Notes:

ID 1, 2, 7, 8  
Standard Table 915-  
Same day  
STEX, TMB, TPH

Temperature Upon Receipt: 23.2

Corrected Temperature —

HNO3 lot # —

IR gun correction: —

IR gun #: 2

S<sub>2</sub>

2210316

## Sample Receipt Checklist

S2 Work Order#

Client: PDC / Entrada Client Project ID: Mershon PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 23.2 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<i>On ice.</i>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Same day.</i>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Jack Brer  
Custodian Printed Name

10/19/22  
Date/Time



Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@6**  
**2210316-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0497	10/19/22	10/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0498	10/19/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		75.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@6**  
**2210316-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0637	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		90.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.172</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@6**  
**2210316-01 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.57	0.210	mg/kg dry	1	BFJ0518	10/20/22	10/21/22	EPA 6020B
Barium	54.5	0.421	"	"	"	"	"	"
Cadmium	ND	0.210	"	"	"	"	"	"
Copper	5.14	0.421	"	"	"	"	"	"
Lead	6.27	0.210	"	"	"	"	"	"
Nickel	5.50	0.421	"	"	"	"	"	"
Selenium	ND	0.273	"	"	"	"	"	"
Silver	ND	0.0210	"	"	"	"	11/08/22	"
Zinc	23.2	0.421	"	"	"	"	10/21/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.0	0.0526	mg/L dry	1	BFJ0673	10/25/22	10/26/22	EPA 6020B	
Magnesium	15.5	0.0526	"	"	"	"	"	"	
Sodium	26.9	0.0526	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BFJ0773	10/27/22	10/27/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@6**  
**2210316-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BFJ0542	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.424	0.0100	mmhos/cm	1	BFJ0699	10/26/22	10/26/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BFJ0700	10/26/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@11**  
**2210316-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0497	10/19/22	10/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0498	10/19/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		55.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@11**  
**2210316-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0637	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		103 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0681</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@11**  
**2210316-02 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.91	0.224	mg/kg dry	1	BFJ0518	10/20/22	10/21/22	EPA 6020B
Barium	33.8	0.447	"	"	"	"	"	"
Cadmium	ND	0.224	"	"	"	"	"	"
Copper	3.01	0.447	"	"	"	"	"	"
Lead	3.01	0.224	"	"	"	"	"	"
Nickel	3.57	0.447	"	"	"	"	"	"
Selenium	ND	0.291	"	"	"	"	"	"
Silver	ND	0.0224	"	"	"	"	11/08/22	"
Zinc	12.8	0.447	"	"	"	"	10/21/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	112	0.0559	mg/L dry	1	BFJ0673	10/25/22	10/26/22	EPA 6020B	
Magnesium	44.1	0.0559	"	"	"	"	"	"	
Sodium	39.9	0.0559	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.808	0.00100	units	1	BFJ0773	10/27/22	10/27/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX15@11**  
**2210316-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BFJ0542	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BFJ0699	10/26/22	10/26/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/19/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BFJ0700	10/26/22	10/26/22	EPA 9045D	

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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX19@2.5**  
**2210316-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.205	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/19/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.5	0.0589	mg/L dry	1	BFJ0537	10/20/22	10/21/22	EPA 6020B	
Magnesium	35.8	0.0589	"	"	"	"	"	"	
Sodium	52.9	0.0589	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/19/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.27	0.00100	units	1	BFJ0643	10/24/22	10/24/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/19/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BFJ0505	10/20/22	10/20/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/19/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.924	0.0100	mmhos/cm	1	BFJ0590	10/21/22	10/21/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX19@2.5**  
**2210316-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/19/22 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.90</b>			pH Units	1	BFJ0591	10/21/22	10/21/22	EPA 9045D	

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240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX20@13**  
**2210316-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0497	10/19/22	10/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0498	10/19/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		41.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX20@13**  
**2210316-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0637	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		104 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0772</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX20@13**  
**2210316-07 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	1.71	0.234	mg/kg dry	1	BFJ0518	10/20/22	10/21/22	EPA 6020B
Barium	35.6	0.468	"	"	"	"	"	"
Cadmium	ND	0.234	"	"	"	"	"	"
Copper	3.30	0.468	"	"	"	"	"	"
Lead	3.72	0.234	"	"	"	"	"	"
Nickel	4.06	0.468	"	"	"	"	"	"
Selenium	ND	0.304	"	"	"	"	"	"
Silver	ND	0.0234	"	"	"	"	11/08/22	"
Zinc	16.2	0.468	"	"	"	"	10/21/22	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

#### Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	121	0.0584	mg/L dry	1	BFJ0673	10/25/22	10/26/22	EPA 6020B	
Magnesium	22.2	0.0584	"	"	"	"	"	"	
Sodium	59.1	0.0584	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.30	0.00100	units	1	BFJ0773	10/27/22	10/27/22	Calculation	

#### Physical Parameters by APHA/ASTM/EPA Methods

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**3EX20@13**  
**2210316-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BFJ0542	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.983	0.0100	mmhos/cm	1	BFJ0699	10/26/22	10/26/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/19/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BFJ0700	10/26/22	10/26/22	EPA 9045D	

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**2EX22@15**  
**2210316-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0497	10/19/22	10/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0498	10/19/22	10/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		48.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**2EX22@15**  
**2210316-08 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0637	10/24/22	10/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		47.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		101 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0317</b>	0.0100	mg/L	1	BFJ0517	10/20/22	10/21/22	EPA 6020B	

#### Total Metals by EPA 6020B

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**2EX22@15**  
**2210316-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.38	0.240	mg/kg dry	1	BFJ0518	10/20/22	10/21/22	EPA 6020B
Barium	37.3	0.480	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	3.92	0.480	"	"	"	"	"	"
Lead	4.06	0.240	"	"	"	"	"	"
Nickel	4.84	0.480	"	"	"	"	"	"
Selenium	ND	0.312	"	"	"	"	"	"
Silver	ND	0.0240	"	"	"	"	11/08/22	"
Zinc	17.5	0.480	"	"	"	"	10/21/22	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0630	10/23/22	10/25/22	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.7	0.0600	mg/L dry	1	BFJ0673	10/25/22	10/26/22	EPA 6020B	
Magnesium	22.8	0.0600	"	"	"	"	"	"	
Sodium	116	0.0600	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.26	0.00100	units	1	BFJ0773	10/27/22	10/27/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**2EX22@15**  
**2210316-08 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BFJ0542	10/20/22	10/21/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.811	0.0100	mmhos/cm	1	BFJ0699	10/26/22	10/26/22	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/19/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BFJ0700	10/26/22	10/26/22	EPA 9045D	

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0497 - EPA 5030 Soil MS

##### Blank (BFJ0497-BLK1)

Prepared: 10/19/22 Analyzed: 10/20/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0400		84.3	50-150			
Surrogate: Toluene-d8	0.0421		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0441		"	0.0400		110	50-150			

##### LCS (BFJ0497-BS1)

Prepared: 10/19/22 Analyzed: 10/20/22

Benzene	0.174	0.0020	mg/kg	0.150		116	70-130			
Toluene	0.170	0.0050	"	0.150		113	70-130			
Ethylbenzene	0.146	0.0050	"	0.150		97.5	70-130			
m,p-Xylene	0.287	0.010	"	0.300		95.8	70-130			
o-Xylene	0.144	0.0050	"	0.150		95.8	70-130			
1,2,4-Trimethylbenzene	0.134	0.0050	"	0.150		89.5	70-130			
1,3,5-Trimethylbenzene	0.136	0.0050	"	0.150		90.6	70-130			
Naphthalene	0.124	0.0038	"	0.150		82.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0351		"	0.0400		87.8	50-150			
Surrogate: Toluene-d8	0.0427		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	50-150			

##### Matrix Spike (BFJ0497-MS1)

Source: 2210316-02

Prepared: 10/19/22 Analyzed: 10/20/22

Benzene	0.158	0.0020	mg/kg	0.150	ND	105	70-130			
Toluene	0.184	0.0050	"	0.150	ND	123	70-130			
Ethylbenzene	0.135	0.0050	"	0.150	ND	89.9	70-130			
m,p-Xylene	0.271	0.010	"	0.300	ND	90.4	70-130			
o-Xylene	0.132	0.0050	"	0.150	ND	87.8	70-130			
1,2,4-Trimethylbenzene	0.121	0.0050	"	0.150	ND	80.5	70-130			
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.150	ND	82.6	70-130			
Naphthalene	0.126	0.0038	"	0.150	ND	83.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0343		"	0.0400		85.6	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	50-150			

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Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0497 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0497-MSD1)		Source: 2210316-02			Prepared: 10/19/22 Analyzed: 10/20/22					
Benzene	0.158	0.0020	mg/kg	0.150	ND	105	70-130	0.133	30	
Toluene	0.152	0.0050	"	0.150	ND	101	70-130	19.1	30	
Ethylbenzene	0.134	0.0050	"	0.150	ND	89.5	70-130	0.535	30	
m,p-Xylene	0.266	0.010	"	0.300	ND	88.5	70-130	2.10	30	
o-Xylene	0.130	0.0050	"	0.150	ND	86.8	70-130	1.08	30	
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.150	ND	79.6	70-130	1.10	30	
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.150	ND	82.5	70-130	0.170	30	
Naphthalene	0.122	0.0038	"	0.150	ND	81.2	70-130	3.01	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0343		"	0.0400		85.6	50-150			
Surrogate: Toluene-d8	0.0433		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0429		"	0.0400		107	50-150			

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Entrada Consulting Group  
240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0498 - EPA 3550A**

**Blank (BFJ0498-BLK1)**

Prepared: 10/19/22 Analyzed: 10/20/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.2		"	12.5		105	30-150			

**LCS (BFJ0498-BS1)**

Prepared: 10/19/22 Analyzed: 10/20/22

C10-C28 (DRO)	514	50	mg/kg	500		103	70-130			
Surrogate: o-Terphenyl	17.4		"	12.5		139	30-150			

**Matrix Spike (BFJ0498-MS1)**

Source: 2210316-02

Prepared: 10/19/22 Analyzed: 10/20/22

C10-C28 (DRO)	527	50	mg/kg	500	16.6	102	70-130			
Surrogate: o-Terphenyl	18.5		"	12.5		148	30-150			

**Matrix Spike Dup (BFJ0498-MSD1)**

Source: 2210316-02

Prepared: 10/19/22 Analyzed: 10/20/22

C10-C28 (DRO)	545	50	mg/kg	500	16.6	106	70-130	3.52	20	
Surrogate: o-Terphenyl	14.1		"	12.5		113	30-150			

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240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0637 - EPA 5030 Soil MS

##### Blank (BFJ0637-BLK1)

Prepared & Analyzed: 10/24/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333		60.8	40-150			
Surrogate: Fluoranthene-d10	0.0361		"	0.0333		108	40-150			

##### LCS (BFJ0637-BS1)

Prepared & Analyzed: 10/24/22

Acenaphthene	0.0336	0.00500	mg/kg	0.0333		101	31-137			
Anthracene	0.0279	0.00500	"	0.0333		83.8	30-120			
Benzo (a) anthracene	0.0340	0.00500	"	0.0333		102	30-120			
Benzo (a) pyrene	0.0197	0.00500	"	0.0333		59.0	30-120			
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333		44.7	30-120			
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333		42.8	30-120			
Chrysene	0.0356	0.00500	"	0.0333		107	30-120			
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333		49.0	30-120			
Fluoranthene	0.0277	0.00500	"	0.0333		83.1	30-120			
Fluorene	0.0302	0.00500	"	0.0333		90.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333		71.1	30-120			
Pyrene	0.0393	0.00500	"	0.0333		118	35-142			
1-Methylnaphthalene	0.0341	0.00500	"	0.0333		102	35-142			
2-Methylnaphthalene	0.0231	0.00500	"	0.0333		69.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0365		"	0.0333		110	40-150			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.1	40-150			

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240 Mesa Avenue  
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Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike		Source		%REC		RPD	
	Result	Limit	Units	Level		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0637 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0637-MS1)

Source: 2210316-01

Prepared & Analyzed: 10/24/22

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	63.8	31-137		
Anthracene	0.0196	0.00500	"	0.0333	ND	58.7	30-120		
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.1	30-120		
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.4	30-120		
Benzo (b) fluoranthene	0.0133	0.00500	"	0.0333	ND	40.0	30-120		
Benzo (k) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.2	30-120		
Chrysene	0.0187	0.00500	"	0.0333	ND	56.1	30-120		
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.2	30-120		
Fluoranthene	0.0228	0.00500	"	0.0333	ND	68.3	30-120		
Fluorene	0.0188	0.00500	"	0.0333	ND	56.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0151	0.00500	"	0.0333	ND	45.4	30-120		
Pyrene	0.0147	0.00500	"	0.0333	ND	44.2	35-142		
1-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	46.0	15-130		
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0173		"	0.0333		52.0	40-150		
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.2	40-150		

##### Matrix Spike Dup (BFJ0637-MSD1)

Source: 2210316-01

Prepared & Analyzed: 10/24/22

Acenaphthene	0.0193	0.00500	mg/kg	0.0333	ND	58.0	31-137	9.67	30
Anthracene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	2.98	30
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	6.88	30
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.0	30-120	21.3	30
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.6	30-120	3.87	30
Benzo (k) fluoranthene	0.0135	0.00500	"	0.0333	ND	40.5	30-120	4.17	30
Chrysene	0.0179	0.00500	"	0.0333	ND	53.7	30-120	4.39	30
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.4	30-120	3.92	30
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	12.0	30
Fluorene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	9.04	30
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	11.6	30
Pyrene	0.0153	0.00500	"	0.0333	ND	45.9	35-142	3.70	30
1-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.7	15-130	5.07	50
2-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	42.1	15-130	8.54	50
Surrogate: 2-Methylnaphthalene-d10	0.0135		"	0.0333		40.4	40-150		
Surrogate: Fluoranthene-d10	0.0212		"	0.0333		63.6	40-150		

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0517 - EPA 3050B**

**Blank (BFJ0517-BLK1)**

Prepared & Analyzed: 10/20/22

Boron ND 0.0100 mg/L

**LCS (BFJ0517-BS1)**

Prepared & Analyzed: 10/20/22

Boron 4.22 0.0100 mg/L 5.00 84.4 80-120

**Duplicate (BFJ0517-DUP1)**

**Source: 2210303-01**

Prepared & Analyzed: 10/20/22

Boron 0.0894 0.0100 mg/L 0.0961 7.24 20

**Matrix Spike (BFJ0517-MS1)**

**Source: 2210303-01**

Prepared & Analyzed: 10/20/22

Boron 4.08 0.0100 mg/L 5.00 0.0961 79.8 75-125

**Matrix Spike Dup (BFJ0517-MSD1)**

**Source: 2210303-01**

Prepared & Analyzed: 10/20/22

Boron 4.22 0.0100 mg/L 5.00 0.0961 82.5 75-125 3.24 25

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0518 - EPA 3050B**

**Blank (BFJ0518-BLK1)**

Prepared: 10/20/22 Analyzed: 10/21/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFJ0518-BS1)**

Prepared: 10/20/22 Analyzed: 10/21/22

Arsenic	40.7	0.200	mg/kg wet	40.0	102	80-120
Barium	33.0	0.400	"	40.0	82.5	80-120
Cadmium	1.73	0.200	"	2.00	86.6	80-120
Copper	45.9	0.400	"	40.0	115	80-120
Lead	16.2	0.200	"	20.0	80.9	80-120
Nickel	43.5	0.400	"	40.0	109	80-120
Selenium	4.17	0.260	"	4.00	104	80-120
Silver	1.70	0.0200	"	2.00	85.1	80-120
Zinc	44.5	0.400	"	40.0	111	80-120

**Duplicate (BFJ0518-DUP1)**

Source: 2210316-01

Prepared: 10/20/22 Analyzed: 10/21/22

Arsenic	1.66	0.210	mg/kg dry	1.57	5.67	20
Barium	59.5	0.421	"	54.5	8.63	20
Cadmium	0.155	0.210	"	0.131	16.5	20
Copper	5.67	0.421	"	5.14	9.78	20
Lead	6.99	0.210	"	6.27	10.9	20
Nickel	6.10	0.421	"	5.50	10.4	20
Selenium	ND	0.273	"	ND		20
Silver	0.0130	0.0210	"	0.0151	14.9	20
Zinc	25.5	0.421	"	23.2	9.33	20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad  
Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0518 - EPA 3050B**

Matrix Spike (BFJ0518-MS1)		Source: 2210316-01			Prepared: 10/20/22		Analyzed: 10/21/22				
Arsenic	15.0	0.210	mg/kg dry	42.1	1.57	32.0	75-125				QM-05
Barium	105	0.421	"	42.1	54.5	119	75-125				
Cadmium	2.12	0.210	"	2.10	0.131	94.4	75-125				
Copper	38.5	0.421	"	42.1	5.14	79.2	75-125				
Lead	26.8	0.210	"	21.0	6.27	97.7	75-125				
Nickel	37.6	0.421	"	42.1	5.50	76.2	75-125				
Selenium	4.23	0.273	"	4.21	ND	101	75-125				
Silver	2.04	0.0210	"	2.10	0.0151	96.2	75-125				
Zinc	58.9	0.421	"	42.1	23.2	84.9	75-125				

Matrix Spike Dup (BFJ0518-MSD1)		Source: 2210316-01			Prepared: 10/20/22		Analyzed: 10/21/22				
Arsenic	14.5	0.210	mg/kg dry	42.1	1.57	30.6	75-125	3.95	25		QM-05
Barium	101	0.421	"	42.1	54.5	111	75-125	3.55	25		
Cadmium	2.04	0.210	"	2.10	0.131	90.9	75-125	3.50	25		
Copper	37.5	0.421	"	42.1	5.14	76.8	75-125	2.62	25		
Lead	25.6	0.210	"	21.0	6.27	92.0	75-125	4.55	25		
Nickel	37.7	0.421	"	42.1	5.50	76.6	75-125	0.396	25		
Selenium	3.90	0.273	"	4.21	ND	92.8	75-125	8.09	25		
Silver	1.95	0.0210	"	2.10	0.0151	91.9	75-125	4.52	25		
Zinc	55.6	0.421	"	42.1	23.2	77.0	75-125	5.75	25		

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0630 - 3060A Mod**

**Blank (BFJ0630-BLK1)**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0630-BS1)**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 105 80-120

**Duplicate (BFJ0630-DUP1)**

**Source: 2210303-01**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0630-MS1)**

**Source: 2210303-01**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent 29.1 0.30 mg/kg dry 28.4 ND 102 75-125

**Matrix Spike Dup (BFJ0630-MSD1)**

**Source: 2210303-01**

Prepared: 10/23/22 Analyzed: 10/25/22

Chromium, Hexavalent 29.4 0.30 mg/kg dry 28.4 ND 103 75-125 0.778 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0537 - General Preparation**

**Blank (BFJ0537-BLK1)**

Prepared: 10/20/22 Analyzed: 10/21/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0537-BS1)**

Prepared: 10/20/22 Analyzed: 10/21/22

Calcium	5.18	0.0500	mg/L wet	5.00	104	70-130
Magnesium	4.83	0.0500	"	5.00	96.6	70-130
Sodium	4.76	0.0500	"	5.00	95.2	70-130

**Batch BFJ0673 - General Preparation**

**Blank (BFJ0673-BLK1)**

Prepared: 10/25/22 Analyzed: 10/26/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BFJ0673-BS1)**

Prepared: 10/25/22 Analyzed: 10/26/22

Calcium	6.06	0.0500	mg/L wet	5.00	121	70-130
Magnesium	5.53	0.0500	"	5.00	111	70-130
Sodium	5.82	0.0500	"	5.00	116	70-130

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting			Spike	Source	%REC		RPD		
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

**Batch BFJ0505 - General Preparation**

**Duplicate (BFJ0505-DUP1)**

Source: 2210283-01

Prepared & Analyzed: 10/20/22

% Solids	98.9	%		99.0		0.101	20
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**Batch BFJ0542 - General Preparation**

**Duplicate (BFJ0542-DUP1)**

Source: 2210314-01

Prepared: 10/20/22 Analyzed: 10/21/22

% Solids	85.9	%		85.7		0.226	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0590 - General Preparation**

**Blank (BFJ0590-BLK1)**

Prepared & Analyzed: 10/21/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0590-BS1)**

Prepared & Analyzed: 10/21/22

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.8 95-105

**Duplicate (BFJ0590-DUP1)**

**Source: 2210296-01**

Prepared & Analyzed: 10/21/22

Specific Conductance (EC) 0.293 0.0100 mmhos/cm 0.298 1.66 20

**Batch BFJ0699 - General Preparation**

**Blank (BFJ0699-BLK1)**

Prepared & Analyzed: 10/26/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0699-BS1)**

Prepared & Analyzed: 10/26/22

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BFJ0699-DUP1)**

**Source: 2210316-01**

Prepared & Analyzed: 10/26/22

Specific Conductance (EC) 0.413 0.0100 mmhos/cm 0.424 2.61 20

Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction, CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0591 - General Preparation**

**LCS (BFJ0591-BS1)**

Prepared & Analyzed: 10/21/22

pH	9.00		pH Units	9.18	98.0	95-105
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**Duplicate (BFJ0591-DUP1)**

**Source: 2210296-01**

Prepared & Analyzed: 10/21/22

pH	7.57		pH Units	7.51	0.796	20
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**Batch BFJ0700 - General Preparation**

**LCS (BFJ0700-BS1)**

Prepared & Analyzed: 10/26/22

pH	9.20		pH Units	9.18	100	95-105
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**Duplicate (BFJ0700-DUP1)**

**Source: 2210316-01**

Prepared & Analyzed: 10/26/22

pH	7.82		pH Units	7.73	1.16	20
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Summit Scientific

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Entrada Consulting Group  
240 Mesa Avenue  
Grand Junction. CO, 81501

Project: PDC - Mershon Pad

Project Number: [none]  
Project Manager: Ben Baugh

**Reported:**  
11/09/22 08:58

### Notes and Definitions

QM-05     The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.

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