May 17, 2023

Ms. Rachel Puechner
Decommissioning Advisor
Chevron Environmental Management Company
1500 Louisiana St.
Houston, TX 77002

Via Email

RE: Facility Closure Assessment
Wilson Creek Unit 31
COGCC Remediation Project Number 20334
Rio Blanco County, Colorado

Ms. Puechner,

Entrada Consulting Group, Inc. (Entrada) has prepared this Closure Summary for Chevron USA Inc., (Chevron) related to the facility closure activities conducted at the Wilson Creek Unit 31 production pad (Site) located in Rio Blanco County, Colorado. The Site is in the southwest quarter of the northeast quarter in Section 2, Township 2 north, Range 94 west, of the 6th Principal Meridian. The coordinates in decimal degrees of the approximate center point of the Site are 40.172194° latitude and -107.905431° longitude. The Colorado Oil and Gas Conservation Commission (COGCC) Location ID for the Site is 314497.

Entrada was contracted to conduct field screening and collect soil samples during facility closure activities at the Site in accordance with the sampling plan submitted in the approved Form 27 Initial (Document Number 402806511). All investigation activities, field screening, and sampling activities discussed herein were conducted in accordance with COGCC 900 Series Rules and associated COGCC operator guidance documents.

SITE DESCRIPTION AND PATHWAY TO GROUNDWATER EVALUATION

The Site is located on a north facing hillside composed of weathered fine grained low-permeability shale and is situated at an elevation of approximately 7,975 feet above mean sea level (ft-amsl). The nearest surface water feature is an ephemeral tributary to Strawberry Creek which is located approximately 0.45 miles northwest of the Site at an elevation of approximately 7,465 ft-amsl (510 feet below the Site). There are no groundwater wells within 1.00 mile of the Site actively permitted with the Colorado Division of Water Resources (DWR). Numerous groundwater wells are present within 1.5 miles of the Site however, the majority of those being monitoring wells located in valley base in and around the Wilson Creek Central Production Area

and are associated with COGCC Remediation Project Number 70. A selection of representative monitoring wells that list static depths to water at the time of well construction are summarized in the table below.

DWR Permit Number	Date Installed	Approximate Surface Elevation (ft-amsl)	Static Depth to Ground water (ft-bgs)	Approximate Groundwater Elevation (ft-amsl)	Elevation Difference Between Unit 31 Ground Surface* and Reported Static Groundwater (feet)
12707	8/12/1961	8,021	170	7,851.00	124.00
46610	6/17/2004	7,994	62.65	7,931.35	43.65
9284	7/6/1961	7,595	40.00	7,555.00	420.00

* Elevation information recorded using Google Earth

The information presented above indicates that a pathway to groundwater is not expected at the Site.

FIELD SCREENING AND SOIL SAMPLING ACTIVITIES

On November 8, 2021, December 1, 2021, May 23, 2022, June 6, 2022, August 4, 2022, August 10, 2022, and August 25, 2022, an Entrada representative was onsite to field screen and collect soil samples from the wellhead and flowline excavations. A weathered shale bedrock/soil mix was generally encountered during excavation activities at depths ranging from 4 to 12 ft-bgs. In total, soil was field screened at thirty-one locations: twenty-two points from the excavation's sidewalls and nine points from the excavation bases. Groundwater was not observed at any point during field activities. Soil from each of these locations was visually examined for evidence of potential environmental impacts (e.g., petroleum staining and odor) and screened for volatile organic compounds. Screening was conducted by placing the soil into a re-sealable bag, allowing the soil to warm and volatilize any organic compounds, and monitoring the headspace in the bag with a photoionization detector (PID) equipped with a 10.6 eV lamp. The maximum PID reading observed during the investigations was 180.2 parts per million (ppm) at Unit 31 N (4-6') point in the initial wellhead excavation.

During the May 23, 2022 excavation sampling event, analytical results from two locations, the south sidewall sample Unit 31 SW (9') and the west base sample Unit 31 BW (12'), were above the COGCC Table 915-1 standard for total petroleum hydrocarbons (TPH). Analytical results from a third location, the east base sample Unit 31 BE (14'), was above the Table 915-1 arsenic standard. A thin layer of soil was subsequently removed and a confirmation sample Unit 31 BE (14') was collected on August 25, 2022. Analytical results from this event indicated that the arsenic impacted soil had been adequately removed. The northern base of the excavation was not completed and ready for confirmation sampling during this event.

Additional soil and rock were removed from the southern wall of the excavation on June 16, 2022 and confirmation soil samples were collected. Subsurface impacts appeared to follow the weathered shale bedrock which trended shallower as the excavation moved towards and into the access road. The Unit 31 BSW (8') sample was collected from the base of the south sidewall expansion and was intended to show that vertical impacts, previously identified in the area, had been adequately removed. Analytical results from the south sidewall sample Unit 31

SW (4') continues to be above the Table 915-1 standard for TPH. Additional soil and rock was removed from the west base of the excavation to address TPH impacts. Analytical results from sample Unit 31 BW (18') indicated that the TPH impacted soil had had been adequately removed, however a slight exceedance in pH was identified. A thin layer of soil was subsequently removed and a confirmation sample Unit 31 BW (18') was collected on August 25, 2022. Analytical results from this event indicated that the pH impacted soil had been adequately removed.

On August 4, 2022, confirmation soil samples were collected from the northern portion of the excavation once remaining impacted soil had been removed. Analytical results from the south excavation sidewall Unit 31 B2 S (16') was above the Table 915-1 standard for pH. A thin layer of soil was subsequently removed and a confirmation sample Unit 31 B2 S (16') was collected on August 25, 2022. Analytical results from this event indicated that the pH impacted soil had been adequately removed.
In total, twenty-two (22) soil samples were collected from the wellhead excavation at depths ranging from 4 to 18 feet below ground surface (ft-bgs) and submitted for laboratory analysis. Six soil samples, Unit 31 BE (14') (sample and resample), Unit 31 BW (12'), Unit 31 BW (18') (sample and resample), and Unit 31 B2 (18') were collected from the wellhead excavation base. Sixteen soil samples, Unit 31 N (4-6'), Unit 31 NE (6'), Unit 31 NW (6'), Unit 31 SE (9'), Unit 31 SE2 (4'), Unit 31 SW (9'), Unit 31 SW2 (4'), Unit 31 SW3 (5'), Unit 31 E (9'), Unit 31 W (8'), Unit 31 BSW (8'), Unit 31 B2 N (16'), Unit 31 B2 S (16') (sample and resample), Unit 31 B2 E (16') and Unit 31 B2 W (16'), were collected from the excavation sidewalls. All impacts were fully delineated and removed as confirmed by analytical results.

On June 16, 2022, the remaining portion of on-location buried flowline was exposed for inspection prior to removal. During field screening activities hydrocarbon impacts were identified along the eastern section of the flowline which lies beneath the Bureau of Land Management (BLM) access road. A reference sample, Unit 31 FL2 (2') was collected from the impacted soil surrounding the flowline. Impacted soils were immediately excavated to a depth of 5 ft-bgs and confirmation samples were collected from the base and sidewalls.

In total, six (6) soil samples were collected from the flowline excavation at depths ranging from 2 to 5 ft-bgs and submitted for laboratory analysis. Two soil samples, Unit 31 FL2 (2.5') and Unit 31 FL2 (5') were collected from the flowline excavation base. Four soil samples, Unit 31 FL NSW (3.5'), Unit 31 FL SSW (2'), Unit 31 FL ESW (2') and Unit 31 FL WSW (2') were collected from the excavation sidewalls.

Two local background samples, WC BG-SP7, and WC BG-SP15 were collected from similar soil type (Jerry-Thornburgh-Rhone Complex) as the Site at depths ranging from 0 to 2 ft-bgs. These samples were collected from undisturbed native material away from potential impacts related to Site activities to characterize background conditions as part of the broader Wilson Creek Background soil survey. This survey, once finalized, will be submitted under separate cover. A summary of the data including analytical results and a sample location figure is included as an **Attachment.**

Field screening and soil sample locations are included on **Figure 1**. A photographic log and wellhead and flowline checklists documenting Site conditions during the field assessment are provided in as an **Attachment**.

SOIL ANALYSIS

All soil samples were collected in sample containers appropriate for the specified laboratory analyses, sealed, labeled, and placed into an ice filled cooler for preservation. All soil samples were submitted to Pace Analytical in both Minneapolis, Minnesota and Mt. Juliet, Tennessee and Energy Laboratories in Helena, Montana following chain-of-custody procedures and were analyzed for the following:

- Total petroleum hydrocarbons as diesel range organics (TPH-DRO) and TPH as oil range organics (ORO) by U.S. Environmental Protection Agency (EPA) Method 8015M;
- TPH as gasoline range organics (GRO) by EPA Method 8015D;
- Benzene, toluene, ethylbenzene and xylenes (BTEX), 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene by EPA Method 8260B;
- Polycyclic aromatic hydrocarbons (COGCC Table 915-1 list) by EPA Method 8270C;
- pH by EPA Method 9045D;
- Metals:
    - Arsenic by EPA Method 6020;
    - Barium, cadmium, copper, lead, nickel, selenium, silver, and zinc by EPA Method 6010B;
    - Hexavalent chromium by EPA Method 7199; and
    - Hot water-soluble boron by 6010B-NE493 Ch 2;
- Electrical conductivity (EC) by EPA Method 9050A Modified; and
- Sodium adsorption ratio (SAR) by calculation.

The background samples were analyzed for the metals listed above, EC, pH, hot water-soluble boron and SAR by the previously listed analytical methods.

SOIL ANALYTICAL RESULTS

Based on the pathway to groundwater evaluation discussed above, the COGCC Table 915-1 Residential Soil Screening Levels (RSSLs) were used to determine soil compliance. The following laboratory analytical results were reported above the applicable COGCC Table 915-1 RSSLs.

- Arsenic was reported above the Table 915-1 RSSL of 0.68 milligrams per kilogram (mg/kg) in all samples ranging from 1.46 mg/kg in Unit 31 BW (18') to 4.1 mg/kg in Unit 31 N (4-6'). All soil sample results for arsenic were within the maximum local background for the Jerry-Thronburgh-Rhone Complex at a concentration of 4.67 mg/kg in sample WC BG-SP15 (0-6").
- Hexavalent chromium sample results were below the laboratory practical quantitation limit (PQL) of 1.0 mg/kg, except for Unit 31 SW3 (5') reported at 0.99 mg/kg. Samples Unit 31 B2 (18'), Unit 31 B2 N (16') Unit 31 B2 S (16'), Unit 31 B2 E (16') and Unit 31 B2 W (16') were reported as estimated values. Consideration of Table 915-1 footnote 9 is requested for all non-detect samples.

- pH was reported above the Table 915-1 upper limit of 8.3 in soil samples Unit 31 FL NSW (3.5') with a value of 8.8, Unit 31 FL SSW (2') with a value of 8.49 and soil sample Unit 31 FL WSW (2') with a value of 8.46.

All remaining sample results were compliant with the applicable Table 915-1 RSSLs and Soil Suitability for Reclamation Standards. The wellhead excavation soil analytical results are summarized in **Table 1**. The flowline excavation soil analytical results are summarized in **Table 2.** The laboratory analytical reports are included as an **Attachment**.

DISCUSSION AND CONCLUSIONS

A database search revealed that the depth to groundwater in this area is approximately 44 to 420 ft-bgs. Based on this, Entrada asserts that there is no clear path to groundwater on this Site and that Residential Soil Screening Levels should be used.

Hexavalent chromium sample results were below the laboratory practical quantitation limit (PQL) of 1.0 mg/kg, except for Unit 31 SW3 (5') reported at 0.99 mg/kg. Samples Unit 31 B2 (18'), Unit 31 B2 N (16') Unit 31 B2 S (16'), Unit 31 B2 E (16') and Unit 31 B2 W (16') were reported as estimated values. Consideration of Table 915-1 footnote 9 is requested for all non-detect samples. Arsenic was reported above the Table 915-1 RSSL of 0.68 milligrams per kilogram (mg/kg) in all samples ranging from 1.46 mg/kg in Unit 31 BW (18') to 4.1 mg/kg in Unit 31 N (4-6'). All soil sample results for arsenic were within the maximum background for the Jerry-Thornburgh-Rhone Complex at a concentration of 4.67 mg/kg in sample WC BG-SP15 (0-6").

The slightly elevated pH values, ranging from 8.46 to 8.8, found in the flowline trench excavation are in the footprint of the Bureau of Land Management (BLM) access road at depths ranging from 2 to 3.5 ft-bgs. This maintained road has been routinely traveled by both the public and Chevron field personnel for years and is not a viable location for vegetative growth. Furthermore, the road will remain in place once reclamation of the Site is completed to allow for continued access to public lands. Due to the above, Chevron requests relief of the Table 915-1 Soil Suitability for Reclamation pH concentration.

Based upon field screening and soil sampling activities completed at the site and laboratory analytical data presented herein, Entrada recommends that Chevron pursue closure of this Site with the COGCC.

Any additional soil needed for excavation and reclamation activities will be imported to the Site from the Urie Pit located in Rangely, Colorado or the United Pit located in White River City, Colorado. An analytical summary including laboratory reports is included as an **Attachment.**

We appreciate the opportunity to assist Chevron USA Inc. Please contact me (970) 270-2986 if you have any questions.

Sincerely,

ENTRADA CONSULTING GROUP, INC

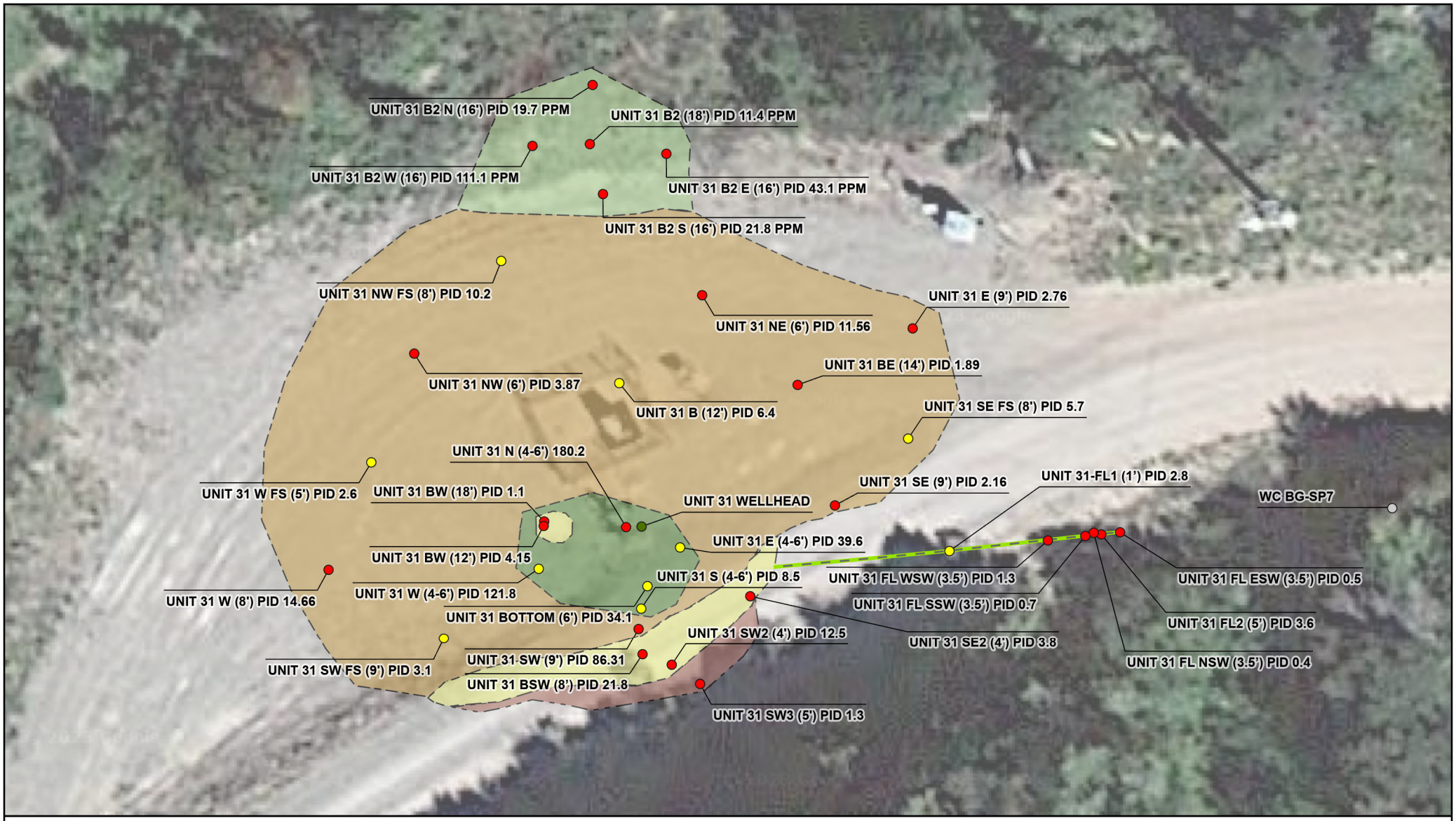
Tim Dobransky
Principal Scientist

Attachments:

Figure 1 – Facility Closure Diagram
Table 1 – Wellhead Soil Analytical Results Summary
Table 2 – Flowline Soil Analytical Results Summary

Attachments
- **Wilson Creek Background Soil Results**
- **Photographic Log**
- **Laboratory Analytical Reports**
- **Import Fill Analytical Summary**
- **Wellhead and Flowline Closure Checklists**

FIGURES



LEGEND

- Background Sample
- Wellhead
- Field Screening Location
- Soil Sample Location
- Flowline Path
- Excavation Boundary as of 12/21/21
- Excavation Boundary as of 5/23/22
- Excavation Boundary as of 6/16/22
- Excavation Boundary as of 8/4/22
- Excavation Boundary as of 8/10/22

0 25 50 Ft

1 inch = 25 ft

N W E S

Project No: 021-197	**Facility Closure Diagram** **Wilson Creek Unit 31** Chevron USA, Inc. SWNE, Section 2, T2N 94W, 6th PM Rio Blanco County, Colorado	ENTRADA CONSULTING GROUP 330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB			1
Date: 5/16/2023			

TABLES

Table 1
Wilson Creek Unit 31
Wellhead Excavation Soil
CEMREC
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY

Sample ID	Unit 31 N	Unit 31 NE	Unit 31 NW	Unit 31 SE	Unit 31 SE2	Unit 31 SW	Unit 31 SW2	Unit 31 SW3	Unit 31 E	Unit 31 W	Unit 31 BE	Unit 31 BE	Unit 31 BW	Unit 31 BW	Unit 31 BW	Unit 31 BSW	Unit 31 B2	Unit 31 B2 N	Unit 31 B2 S	Unit 31 B2 S	Unit 31 B2 E	Unit 31 B2 W	COGCC TABLE 915-1 CLEANUP CONCENTRATIONS		
Depth	(4-6')	6'	6'	9'	4'	9'	4'	5'	9'	8'	14'	14'	12'	18'	18'	8'	18'	16'	16'	16'	16'	16'			
Sample Type	Wellhead Bell Hole	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall	Excavation Base	Excavation Base (resample)	Excavation Base	Excavation Base	Excavation Base (resample)	Excavation Sidewall	Excavation Base	Excavation Sidewall	Excavation Sidewall	Excavation Sidewall (resample)	Excavation Sidewall	Excavation Sidewall			
Sample Date	12/1/2021	5/23/2022	5/23/2022	5/23/2022	6/16/2022	5/23/2022	6/16/2022	8/10/2022	5/23/2022	5/23/2022	5/23/2022	8/25/2022	5/23/2022	6/16/2022	8/25/2022	6/16/2022	8/4/2022	8/4/2022	8/4/2022	8/25/2022	8/4/2022	8/4/2022			
Analytical Parameters																							**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
TPH																									
TPH GRO (C6-C10) ALS	340	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	500		mg/kg
TPH ERO (C10-C36) ALS	5100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			
C6-C10 Gasoline Range	NT	0.257	<0.100	0.182	<9.9	1.22	13	<8.1	<0.100	0.618	<0.100	NT	0.23	<10.1	NT	2.1 J	<5.9	<7.0	<6.0	NT	<8.4	6.2			
C10-C28 Diesel Range	NT	108	6.21	4.68	34.4	1710	591	36.9	26.1	76.9	47.8	NT	848	10.6 J	NT	42.2	95.9	26.6	82.4	NT	111	96.4			
C28-C36 Motor Oil Range	NT	104	4.3	<4.0	14.9 J	729	166	87.7	27.4	73.6	72.6	NT	457	11.9 J	NT	24.3	224	72.3	166	NT	205	154			
Volatile Organic Compounds																									
1,2,4-Trimethylbenzene	0.43	0.00963 B	<0.00500	<0.00500	<0.00500	0.0232	<0.00500	<0.091	<0.00500	<0.00500	<0.00500	NT	<0.00500	<0.00500	NT	<0.00500	<0.060	<0.069	<0.060	NT	<0.085	0.024	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	<0.035	<0.00500	<0.00500	<0.00500	<0.00500	0.0641	<0.00500	<0.091	<0.00500	<0.00500	<0.00500	NT	<0.00500	<0.00500	NT	<0.00500	<0.060	<0.069	<0.060	NT	<0.085	0.03	27	0.0087	mg/kg
Benzene	<0.035	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.036	<0.00100	<0.00100	<0.00100	NT	<0.00100	<0.00100	NT	<0.00100	<0.024	<0.028	<0.024	NT	<0.034	<0.024	1.2	0.0026	mg/kg
Toluene	<0.035	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.091	<0.00500	<0.00500	<0.00500	NT	<0.00500	<0.00500	NT	<0.00500	<0.060	<0.069	<0.060	NT	<0.085	<0.061	490	0.69	mg/kg
Ethylbenzene	0.22	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.091	<0.00250	<0.00250	<0.00250	NT	<0.00250	<0.00250	NT	<0.00250	<0.060	<0.069	<0.060	NT	<0.085	<0.061	5.8	0.78	mg/kg
Total Xylene	<0.10	<0.00650	<0.00650	<0.00650	<0.00650	<0.00650	<0.00650	<0.27	<0.00650	<0.00650	<0.00650	NT	<0.00650	<0.00650	NT	<0.00650	<0.18	<0.21	<0.18	NT	<0.25	<0.18	58	9.9	mg/kg
Metals																									
Arsenic	4.1	3.64	2.72	3.3	1.77	8.72	1.35	2.0	3.88	3.09	13.0	3.91	4.36	1.46	NT	3.07	2.6	2.4	2.5	NT	2.8	2.8	0.68	0.29	mg/kg
Barium	46	44.9	32	27.7 O1	43.9	35.1	32.4	47.3	118	55.3	73.5	NT	41.0	30.4	NT	25.9	34.2	51.8	40.7	NT	39.4	51.6	15,000	82	mg/kg
Cadmium	0.089 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.290	<0.500	<0.500	0.745	NT	<0.500	<0.500	NT	<0.500	0.180	0.180	0.180	NT	<0.19	<0.22	71	0.38	mg/kg
Chromium, Hexavalent	<1.2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.99	<1.00	<1.00	<1.00	NT	<1.00	<1.00	NT	<0.100	0.48 J	0.33 J	0.32 J	NT	0.33 J	0.41 J	0.3	0.00067	mg/kg
Copper	15	9.71	8.24	4.22	13.2	6.72	11	11.6	10.4	9.74	22.0	NT	10.7	8.53	NT	6.29	11.1	11.2	11.4	NT	12	11.1	3,100	46	mg/kg
Lead	16	16.5	10.2	12.9	16.90	13.9	13.8	13.4	9.75	11.1	22.7	NT	14.9	16.6	NT	11.4	13.5	13.8	13.2	NT	16.3	13.8	400	14	mg/kg
Nickel	9.9	7.35	7.10	6.18	8.86	14.6	7.96	9.4	6.87	5.94	18.0	NT	10.5	1.32 J	NT	10.3	10	8.5	9.5	NT	10.1	10.2	1,500	26	mg/kg
Selenium	0.44	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.3	<2.00	<2.00	<2.00	NT	<2.00	<2.00	NT	<2.00	<1.1	<1.1	<1.0	NT	<1.3	<1.0	390	0.26	mg/kg
Silver	0.18 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.65	<1.00	<1.00	<1.00	NT	<1.00	<1.00	NT	<1.00	<0.53	<0.57	<0.52	NT	<0.63	<0.52	390	0.8	mg/kg
Zinc	41	37.8	28.8	35.4	37.0	43.7	37.1	45	32.4	30.6	70.1	NT	42.8	15	NT	37.7	34.6	37.9	33.9	NT	43.8	42.2	23,000	370	mg/kg
Soil Suitability for Reclamation																									
Sodium Adsorption Ratio (SAR)	4.4	0.523	0.424	0.397	0.640	4.04	0.303	0.300	0.710	4.41	0.356	NT	1.69	0.768	NT	0.233	0.242	0.179	0.245	NT	0.201	0.242	<6	<6	ratio
Electrical Conductivity (EC)	3.1	0.357	0.247	0.530	0.197	2.53	0.347	0.200	0.249	1.0	1.72	NT	1.17	0.101	NT	2.42	0.205	0.553	0.200	NT	0.260	0.285	<4	<4	mmhos/cm
pH	8.04	7.61	7.51	7.38	8.16	7.55	8.07	7.90	7.77	7.95	7.71	NT	7.39	9.08	7.60	7.46	8.00	8.00	8.50	7.40	8.20	8.30	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.49	<0.200	<0.200	<0.200	<2.00	<0.200	<0.200	<0.1	<0.200	<0.200	<0.200	NT	<0.200	<0.200	NT	<0.200	<0.200	<0.200	<0.200	NT	<0.200	<0.200	2	2	mg/kg
Polynuclear Aromatic Hydrocarbons																									
1-Methylnaphthalene	4.5	<0.0200	<0.0200	<0.0200	<0.0200	1.07	<0.0200	<0.014	<0.0200	<0.0200	<0.0200	NT	0.0206	<0.0200	NT	<0.0200	<0.011	<0.012	<0.011	NT	<0.013	<0.011	18	0.006	mg/kg
2-Methylnaphthalene	4.6	0.0236	<0.0200	<0.0200	<0.0200	0.106	<0.0200	<0.014	<0.0200	<0.0200	<0.0200	NT	<0.0200	<0.0200	NT	<0.0200	<0.011	<0.012	<0.011	NT	0.016	<0.011	24	0.019	mg/kg
Acenaphthene	<0.025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.0201	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	360	0.55	mg/kg
Anthracene	<0.025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	1,800	5.8	mg/kg
Benzo(a)anthracene	0.48	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	1.1	0.011	mg/kg
Benzo(a)pyrene	<0.025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	0.11	0.24	mg/kg
Benzo(b)fluoranthene	<0.025	<0.00600	<0.00600	<0.00600	<0.00600	0.00611	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	1.1	0.3	mg/kg
Benzo(k)fluoranthene	<0.025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	11	2.9	mg/kg
Chrysene	0.46	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00791	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	0.0123	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	110	9	mg/kg
Dibenz(a,h)anthracene	<0.025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	0.11	0.096	mg/kg
Fluoranthene	0.084	<0.00600	<0.00600	<0.00600	<0.00600	0.0299	0.0082	<0.014	<0.00600	<0.00600	<0.00600	NT	0.0187	0.0181	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	240	8.9	mg/kg
Fluorene	0.78	<0.00600	<0.00600	<0.00600	<0.00600	0.288	0.0435	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	<0.025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	1.1	0.98	mg/kg
Naphthalene	1.2	<0.0200	<0.0200	<0.0200	<0.0200	0.0505	<0.0200	<0.014	<0.0200	<0.0200	<0.0200	NT	<0.0200	<0.0200	NT	<0.0200	<0.011	<0.012	<0.011	NT	<0.013	<0.011	2	0.0038	mg/kg
Pyrene	0.069	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.014	<0.00600	<0.00600	<0.00600	NT	<0.00600	<0.00600	NT	<0.00600	<0.011	<0.012	<0.011	NT	<0.013	<0.011	180	1.3	mg/kg

Notes:

mg/kg - milligrams per kilogram

J1 - surrogate recovery limits have been exceeded; values are outside upper control limits

J2 - surrogate recovery cannot be used for control limit evaluation due to dilution

O1 - the analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference

su - standard units

NT - parameter was not tested

B - analyte detected in the associated Method Blank above the Reporting Limit

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

T8 - sample(s) received past/two close to holding time expiration

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

Table 2
Wilson Creek Unit 31
Flowline Data Summary
CEMREC
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY									
Sample ID	Unit 31 FL2	Unit 31 FL2	Unit 31 FL NSW	Unit 31 FL SSW	Unit 31 FL ESW	Unit 31 FL WSW	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Depth	2'	5'	3.5'	2'	2'	2'			
Sample Type	Flowline Excavation Base	Flowline Excavation Base	Flowline Excavation	Flowline Excavation	Flowline Excavation	Flowline Excavation			
Sample Date	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022	6/16/2022			
Analytical Parameters							**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
TPH									
C6-C10 Gasoline Range	157	5.2 J	1.8 J	<12.6	<11.6	<12.7			
C10-C28 Diesel Range	873	32.3	103	24.4	58.8	16.8			
C28-C36 Motor Oil Range	123	40.6	108	30.9	64	18.6 J			
Volatile Organic Compounds									
1,2,4-Trimethylbenzene	0.00943	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	1.54	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	27	0.0087	mg/kg
Benzene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1.2	0.0026	mg/kg
Toluene	0.00865	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	490	0.69	mg/kg
Ethylbenzene	0.00555	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	5.8	0.78	mg/kg
Total Xylene	1.15	<0.00650	<0.00650	<0.00650	<0.00650	<0.00650	58	9.9	mg/kg
Metals									
Arsenic	2.75	3.37	2.84	2.11	3.26	2.7	0.68	0.29	mg/kg
Barium	55.4	73.8	46.2	36.6	53.3	53.3	15,000	82	mg/kg
Cadmium	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	71	0.38	mg/kg
Chromium, Hexavalent	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.3	0.00067	mg/kg
Copper	10.8	13.6	12.6	12.5	19.4	11.5	3,100	46	mg/kg
Lead	13.6	17.2	16.2	15.1	19.1	13.80	400	14	mg/kg
Nickel	9.89	14.0	10.3	8.92	13.9	8.62	1,500	26	mg/kg
Selenium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	390	0.26	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	390	0.8	mg/kg
Zinc	42	51.5	50.8	39.8	65	41	23,000	370	mg/kg
Soil Suitability for Reclamation									
Sodium Adsorption Ratio (SAR)	2.5	0.321	0.237	0.149	0.0738	0.640	<6	<6	ratio
Electrical Conductivity (EC)	0.404	0.188	0.149	0.056	0.859	0.306	<4	<4	mmhos/cm
pH	9.14 T8	7.94 T8	8.8 T8	8.49 T8	7.75 T8	8.46 T8	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.729	<0.200	<0.200	<0.200	<0.200	<2.00	2	2	mg/kg
Polynuclear Aromatic Hyrdrocarbons									
1-Methylnaphthalene	0.581	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	18	0.006	mg/kg
2-Methylnaphthalene	0.454	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	24	0.019	mg/kg
Acenaphthene	0.015	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	360	0.55	mg/kg
Anthracene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	1,800	5.8	mg/kg
Benzo(a)anthracene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	1.1	0.011	mg/kg
Benzo(a)pyrene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.11	0.24	mg/kg
Benzo(b)fluoranthene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	1.1	0.3	mg/kg
Benzo(k)fluoranthene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	11	2.9	mg/kg
Chrysene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	110	9	mg/kg
Dibenzo(a,h)anthracene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.11	0.096	mg/kg
Fluoranthene	0.00678	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	240	8.9	mg/kg
Fluorene	0.0501	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	1.1	0.98	mg/kg
Napthalene	0.0866	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	2	0.0038	mg/kg
Pyrene	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	180	1.3	mg/kg

Notes:

mg/kg - milligrams per kilogram

J1 - surrogate recovery limits have been exceeded; values are outside upper control limits

J7 - surrogate recovery cannot be used for control limit evaluation due to dilution

O1 - the analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference

su - standard units

NT - parameter was not tested

B - analyte detected in the associated Method Blank above the Reporting Limit

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

T8 - sample(s) received past/too close to holding time expiration

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project Number:
WC Unit 31	Wilson Creek Unit 31 - Facility Closure	021-197

Facility:
WC Unit 31

Description:
Location and wellhead post P&A activities. View looking east.

Date: 11/8/21

Facility:
WC Unit 31

Description:
Flowline as it leaves location. View looking southeast.

Date: 11/8/21

PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project Number:
WC Unit 31	Wilson Creek Unit 31 - Facility Closure	021-197

Facility:
WC Unit 31

Description:
Wellhead cellar with impacted soil visible. View looking east.

Date: 12/1/21

Facility:
WC Unit 31

Description:
Flowline at wellhead cellar View looking southeast.

Date: 12/1/21

PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project Number:
WC Unit 31	Wilson Creek Unit 31 - Facility Closure	021-197

Facility:
WC Unit 31

Description:
Wellhead excavation. View looking east.

Date: 5/23/22

Facility:
WC Unit 31

Description:
Wellhead excavation. View looking southeast.

Date: 5/23/22

PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project Number:
WC Unit 31	Wilson Creek Unit 31 - Facility Closure	021-197

Facility:
WC Unit 31

Description:
Additional excavated along south sidewall. View looking south.

Date: 6/16/22

Facility:
WC Unit 31

Description:
Flowline excavation towards wellhead View looking west.

Date: 6/16/22

PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project Number:
WC Unit 31	Wilson Creek Unit 31 - Facility Closure	021-197

Facility:
WC Unit 31

Description:
Additional excavated along north base. View looking west.

Date: 6/16/22

Facility:
WC Unit 31

Description:
Final excavation along the northern base. View looking southwest.

Date: 8/4/22

LABORATORY ANALYTICAL REPORTS

17-Dec-2021

Tim Dobransky
Entrada Consulting Group
330 Grand Ave.
Suite C
Grand Junction, CO 81501

Re: **Chevron Wilson Creek Unit 31 Reclamation** Work Order: **21120482**

Dear Tim,

ALS Environmental received 1 sample on 03-Dec-2021 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 21.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

ALS Group, USA

Date: 17-Dec-21

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Unit 31 Reclamation
Work Order: **21120482**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21120482-01	Unit 31 N	Soil		12/1/2021 11:40	12/3/2021 10:00	☐

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Unit 31 Reclamation
Work Order: 21120482

Case Narrative

Batch 188441, Method SW8015D, Sample Unit 31 N (21120482-01A): GRO surrogate recovery high due to matrix interference.

Batch 189018, Method SW7196A, Sample 21120482-01A MS/MSD: The MS/MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: hexavalent chromium.

ALS Group, USA

Date: 17-Dec-21

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group, USA

Date: *17-Dec-21*

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Unit 31 Reclamation
Sample ID: Unit 31 N
Collection Date: 12/1/2021 11:40 AM

Work Order: 21120482
Lab ID: 21120482-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method:	**SW8015D**		Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**5,100**		**8.7**	**23**	**mg/Kg-dry**	1	12/14/2021 12:26
Surr: 4-Terphenyl-d14	*77.8*			*25-110*	*%REC*	1	12/14/2021 12:26
GASOLINE RANGE ORGANICS BY GC-FID		Method:	**SW8015D**		Prep: SW5035A / 12/7/21		Analyst: **SJB**
GRO (C6-C10)	**340**		**2.4**	**5.8**	**mg/Kg-dry**	1	12/7/2021 19:50
Surr: Toluene-d8	*204*	S		*71-123*	*%REC*	1	12/7/2021 19:50
METALS BY ICP-MS		Method:	**SW6020B**		Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**4.1**		**0.052**	**0.43**	**mg/Kg-dry**	1	12/13/2021 22:38
Barium	**46**		**0.40**	**0.43**	**mg/Kg-dry**	1	12/13/2021 22:38
Cadmium	**0.089**	J	**0.026**	**0.17**	**mg/Kg-dry**	1	12/13/2021 22:38
Copper	**15**		**0.43**	**0.43**	**mg/Kg-dry**	1	12/13/2021 22:38
Lead	**16**		**0.21**	**0.43**	**mg/Kg-dry**	1	12/13/2021 22:38
Nickel	**9.9**		**0.22**	**0.43**	**mg/Kg-dry**	1	12/13/2021 22:38
Selenium	**0.44**		**0.40**	**0.43**	**mg/Kg-dry**	1	12/13/2021 22:38
Silver	**0.18**	J	**0.057**	**0.43**	**mg/Kg-dry**	1	12/13/2021 22:38
Zinc	**41**		**0.84**	**0.86**	**mg/Kg-dry**	1	12/13/2021 22:38
SOLUBLE CATIONS FOR SAR		Method:	**SW6020B**		Prep: USDA Method 20B / 12/14/21		Analyst: **STP**
Calcium	**200**		**2.5**	**5.0**	**mg/L**	10	12/14/2021 17:16
Magnesium	**72**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 17:16
Sodium	**280**		**1.8**	**2.0**	**mg/L**	10	12/14/2021 17:16
HOT WATER SOLUBLE BORON BY ICP-MS		Method:	**SW6020B**		Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**0.49**		**0.019**	**0.48**	**mg/Kg-dry**	10	12/13/2021 20:22
SODIUM ADSORPTION RATIO		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/14/21		Analyst: **STP**
Sodium Adsorption Ratio	**4.4**		**0.010**	**0.010**	**none**	1	12/14/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method:	**SW8270E**		Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	**4.5**		**0.015**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03
2-Methylnaphthalene	**4.6**		**0.018**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03
Acenaphthene	U		0.022	0.025	mg/Kg-dry	1	12/14/2021 03:03
Anthracene	U		0.023	0.025	mg/Kg-dry	1	12/14/2021 03:03
Benzo(a)anthracene	**0.48**		**0.025**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03
Benzo(a)pyrene	U		0.020	0.025	mg/Kg-dry	1	12/14/2021 03:03
Benzo(b)fluoranthene	U		0.022	0.025	mg/Kg-dry	1	12/14/2021 03:03
Benzo(k)fluoranthene	U		0.021	0.025	mg/Kg-dry	1	12/14/2021 03:03
Chrysene	**0.46**		**0.023**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *17-Dec-21*

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Unit 31 Reclamation
Sample ID: Unit 31 N
Collection Date: 12/1/2021 11:40 AM

Work Order: 21120482
Lab ID: 21120482-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.021	0.025	mg/Kg-dry	1	12/14/2021 03:03
Fluoranthene	**0.084**		**0.020**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03
Fluorene	**0.78**		**0.020**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03
Indeno(1,2,3-cd)pyrene	U		0.022	0.025	mg/Kg-dry	1	12/14/2021 03:03
Naphthalene	**1.2**		**0.025**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03
Pyrene	**0.069**		**0.024**	**0.025**	**mg/Kg-dry**	1	12/14/2021 03:03
Surr: 2-Fluorobiphenyl	*98.6*			*20-140*	*%REC*	1	12/14/2021 03:03
Surr: 4-Terphenyl-d14	*74.9*			*22-172*	*%REC*	1	12/14/2021 03:03
Surr: Nitrobenzene-d5	*86.8*			*28-140*	*%REC*	1	12/14/2021 03:03
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/7/21		Analyst: **JNS**
1,2,4-Trimethylbenzene	**0.43**		**0.025**	**0.035**	**mg/Kg-dry**	1	12/8/2021 09:53
1,3,5-Trimethylbenzene	U		0.041	0.12	mg/Kg-dry	1	12/8/2021 09:53
Benzene	U		0.017	0.035	mg/Kg-dry	1	12/8/2021 09:53
Ethylbenzene	**0.22**		**0.0073**	**0.035**	**mg/Kg-dry**	1	12/8/2021 09:53
m,p-Xylene	U		0.046	0.069	mg/Kg-dry	1	12/8/2021 09:53
o-Xylene	U		0.013	0.035	mg/Kg-dry	1	12/8/2021 09:53
Toluene	U		0.0095	0.035	mg/Kg-dry	1	12/8/2021 09:53
Xylenes, Total	U		0.046	0.10	mg/Kg-dry	1	12/8/2021 09:53
Surr: 1,2-Dichloroethane-d4	*97.0*			*70-130*	*%REC*	1	12/8/2021 09:53
Surr: 4-Bromofluorobenzene	*101*			*70-130*	*%REC*	1	12/8/2021 09:53
Surr: Dibromofluoromethane	*87.8*			*70-130*	*%REC*	1	12/8/2021 09:53
Surr: Toluene-d8	*126*			*70-130*	*%REC*	1	12/8/2021 09:53
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/14/21		Analyst: **JMJ**
Electrical Conductivity @ Saturation	**3.1**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/14/2021 11:38
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/15/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**16**		**0.10**	**0.10**	**% of sample**	1	12/10/2021 11:53
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/14/21		Analyst: **KNC**
pH @ Saturation	**8.04**		**0.12**	**0.12**	**s.u.-dry**	1	12/14/2021 09:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 17-Dec-21

Client: Entrada Consulting Group

Work Order: 21120482

Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188750** Instrument ID **GC8** Method: **SW8015D**

MBLK Sample ID: **DBLKS1-188750-188750** Units: **mg/Kg** Analysis Date: **12/14/2021 02:29 AM**

Client ID: Run ID: **GC8_211213A** SeqNo: **8027012** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	U	20								
Surr: 4-Terphenyl-d14	*2.781*	0	*3.33*	0	*83.5*	*25-110*	0			

LCS Sample ID: **DLCSS1-188750-188750** Units: **mg/Kg** Analysis Date: **12/14/2021 03:06 AM**

Client ID: Run ID: **GC8_211213A** SeqNo: **8027013** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	695.8	20	667	0	104	50-133	0			
Surr: 4-Terphenyl-d14	*2.971*	0	*3.33*	0	*89.2*	*25-110*	0			

MS Sample ID: **21120317-03A MS** Units: **mg/Kg** Analysis Date: **12/14/2021 03:43 AM**

Client ID: Run ID: **GC8_211213A** SeqNo: **8027014** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	826.7	20	660.7	33.88	120	50-133	0			
Surr: 4-Terphenyl-d14	*2.89*	0	*3.299*	0	*87.6*	*25-110*	0			

MSD Sample ID: **21120317-03A MSD** Units: **mg/Kg** Analysis Date: **12/14/2021 04:20 AM**

Client ID: Run ID: **GC8_211213A** SeqNo: **8027015** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	744.1	20	664.1	33.88	107	50-133	826.7	10.5	30	
Surr: 4-Terphenyl-d14	*2.842*	0	*3.315*	0	*85.7*	*25-110*	2.89	*1.67*	*30*	

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188441** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-188441-188441** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 09:40 PM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8009179** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000	0	0	0		0			
Surr: Toluene-d8	*4646*	0	*5000*	0	*92.9*	*71-123*	0			

MBLK Sample ID: **MBLK-188441-188441** Units: **µg/Kg-dry** Analysis Date: **12/10/2021 08:29 PM**
Client ID: Run ID: **GC9_211210A** SeqNo: **8020866** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000	0	0	0		0			
Surr: Toluene-d8	*4117*	0	*5000*	0	*82.3*	*71-123*	0			

LCS Sample ID: **LCS-188441-188441** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 08:56 PM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8009178** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	271000	5,000	250000	0	108	71-123	0			
Surr: Toluene-d8	*4781*	0	*5000*	0	*95.6*	*71-123*	0			

LCS Sample ID: **LCS-188441-188441** Units: **µg/Kg-dry** Analysis Date: **12/10/2021 07:44 PM**
Client ID: Run ID: **GC9_211210A** SeqNo: **8020865** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	280600	5,000	250000	0	112	71-123	0			
Surr: Toluene-d8	*4745*	0	*5000*	0	*94.9*	*71-123*	0			

MS Sample ID: **21120481-01A MS** Units: **µg/Kg-dry** Analysis Date: **12/8/2021 12:15 AM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8009186** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	541000	7,500	374600	113000	114	71-123	0			
Surr: Toluene-d8	*9832*	0	*7491*	0	*131*	*71-123*	0			*S*

MSD Sample ID: **21120481-01A MSD** Units: **µg/Kg-dry** Analysis Date: **12/8/2021 12:37 AM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8009187** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	562700	7,500	374600	113000	120	71-123	541000	3.94	30	
Surr: Toluene-d8	*9795*	0	*7491*	0	*131*	*71-123*	9832	*0.374*	*30*	*S*

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188724** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-188724-188724** Units: **mg/Kg** Analysis Date: **12/13/2021 10:21 PM**

Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024476** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Copper	U	0.25								
Lead	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								
Zinc	U	0.50								

LCS Sample ID: **LCS-188724-188724** Units: **mg/Kg** Analysis Date: **12/13/2021 10:23 PM**

Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024477** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.253	0.25	5	0	85.1	80-120	0			
Barium	4.382	0.25	5	0	87.6	80-120	0			
Cadmium	4.321	0.10	5	0	86.4	80-120	0			
Copper	4.468	0.25	5	0	89.4	80-120	0			
Lead	4.349	0.25	5	0	87	80-120	0			
Nickel	4.296	0.25	5	0	85.9	80-120	0			
Selenium	4.31	0.25	5	0	86.2	80-120	0			
Silver	4.242	0.25	5	0	84.8	80-120	0			
Zinc	4.267	0.50	5	0	85.3	80-120	0			

MS Sample ID: **21120750-01AMS** Units: **mg/Kg** Analysis Date: **12/13/2021 10:47 PM**

Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024488** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.045	0.39	7.788	1.855	66.7	75-125	0			S
Barium	77.7	0.39	7.788	100.2	-289	75-125	0			SO
Cadmium	5.855	0.16	7.788	0.2341	72.2	75-125	0			S
Copper	98.74	0.39	7.788	133	-440	75-125	0			SO
Lead	5.168	0.39	7.788	2.202	38.1	75-125	0			S
Nickel	8.969	0.39	7.788	5.043	50.4	75-125	0			S
Selenium	7.371	0.39	7.788	1.855	70.8	75-125	0			S
Silver	6.191	0.39	7.788	0.908	67.8	75-125	0			S
Zinc	150.9	0.78	7.788	203.5	-676	75-125	0			SEO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188724** Instrument ID **ICPMS4** Method: **SW6020B**

MSD Sample ID: **21120750-01AMSD** Units: **mg/Kg** Analysis Date: **12/13/2021 10:50 PM**

Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024489** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.181	0.38	7.519	1.855	84.1	75-125	7.045	14.9	20	
Barium	93.19	0.38	7.519	100.2	-93.5	75-125	77.7	18.1	20	SO
Cadmium	6.661	0.15	7.519	0.2341	85.5	75-125	5.855	12.9	20	
Copper	117.6	0.38	7.519	133	-205	75-125	98.74	17.4	20	SO
Lead	5.525	0.38	7.519	2.202	44.2	75-125	5.168	6.67	20	S
Nickel	10.75	0.38	7.519	5.043	75.9	75-125	8.969	18.1	20	
Selenium	8.569	0.38	7.519	1.855	89.3	75-125	7.371	15	20	
Silver	6.839	0.38	7.519	0.908	78.9	75-125	6.191	9.95	20	
Zinc	180	0.75	7.519	203.5	-313	75-125	150.9	17.6	20	SEO

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188800** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-188800-188800** Units: **mg/Kg** Analysis Date: **12/13/2021 07:44 PM**

Client ID: Run ID: **ICPMS3_211213B** SeqNo: **8026029** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.01403	0.040								J

LCS Sample ID: **LCS-188800-188800** Units: **mg/Kg** Analysis Date: **12/13/2021 07:46 PM**

Client ID: Run ID: **ICPMS3_211213B** SeqNo: **8026030** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.8827	0.040	1	0	88.3	80-120	0			

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188886** Instrument ID **ICPMS3** Method: **SW6020B**

DUP Sample ID: **21120482-01Adup** Units: **mg/L** Analysis Date: **12/14/2021 05:18 PM**

Client ID: **Unit 31 N** Run ID: **ICPMS3_211214A** SeqNo: **8029355** Prep Date: **12/14/2021** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	276.2	5.0	0	0	0	0-0	197	33.5		
Magnesium	102	2.0	0	0	0	0-0	71.99	34.5		
Sodium	371.8	2.0	0	0	0	0-0	282.1	27.5		

The following samples were analyzed in this batch: 21120482-01A

Batch ID: **188886** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP Sample ID: **21120482-01Adup** Units: **none** Analysis Date: **12/14/2021**

Client ID: **Unit 31 N** Run ID: **SAR_211214A** SeqNo: **8031262** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	4.857	0.010	0	0	0		4.372	10.5	50	

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188648** Instrument ID **SVMS6** Method: **SW8270E**

MBLK Sample ID: **SBLKS1-188648-188648** Units: **µg/Kg** Analysis Date: **12/10/2021 04:07 PM**

Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021550** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
Surr: 2-Fluorobiphenyl	*614.5*	0	*666.6*	0	*92.2*	*20-140*	0			
Surr: 4-Terphenyl-d14	*570.7*	0	*666.6*	0	*85.6*	*22-172*	0			
Surr: Nitrobenzene-d5	*670.2*	0	*666.6*	0	*101*	*28-140*	0			

LCS Sample ID: **SLCSS1-188648-188648** Units: **µg/Kg** Analysis Date: **12/10/2021 04:22 PM**

Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021551** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	632.8	4.2	666.6	0	94.9	40-140	0			
2-Methylnaphthalene	570.6	4.2	666.6	0	85.6	40-140	0			
Acenaphthene	566	4.2	666.6	0	84.9	40-140	0			
Anthracene	589	4.2	666.6	0	88.4	40-140	0			
Benzo(a)anthracene	595.1	4.2	666.6	0	89.3	40-140	0			
Benzo(a)pyrene	625.2	4.2	666.6	0	93.8	40-140	0			
Benzo(b)fluoranthene	546.1	4.2	666.6	0	81.9	40-140	0			
Benzo(k)fluoranthene	541.7	4.2	666.6	0	81.3	40-140	0			
Chrysene	597.7	4.2	666.6	0	89.7	40-140	0			
Dibenzo(a,h)anthracene	567.8	4.2	666.6	0	85.2	40-140	0			
Fluoranthene	595.7	4.2	666.6	0	89.4	40-140	0			
Fluorene	542.4	4.2	666.6	0	81.4	40-140	0			
Indeno(1,2,3-cd)pyrene	535.6	4.2	666.6	0	80.4	40-140	0			
Naphthalene	576.9	4.2	666.6	0	86.5	40-140	0			
Pyrene	514.6	4.2	666.6	0	77.2	40-140	0			
Surr: 2-Fluorobiphenyl	*592.6*	0	*666.6*	0	*88.9*	*20-140*	0			
Surr: 4-Terphenyl-d14	*536.2*	0	*666.6*	0	*80.4*	*22-172*	0			
Surr: Nitrobenzene-d5	*516.1*	0	*666.6*	0	*77.4*	*28-140*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188648** Instrument ID **SVMS6** Method: **SW8270E**

MS Sample ID: **21120510-10B MS** Units: **µg/Kg** Analysis Date: **12/10/2021 10:51 PM**

Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021574** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	592.9	4.0	644	0	92.1	40-140	0			
2-Methylnaphthalene	569.9	4.0	644	0	88.5	40-140	0			
Acenaphthene	550	4.0	644	0	85.4	40-140	0			
Anthracene	579.3	4.0	644	0	90	40-140	0			
Benzo(a)anthracene	587.3	4.0	644	0	91.2	40-140	0			
Benzo(a)pyrene	616.1	4.0	644	0	95.7	40-140	0			
Benzo(b)fluoranthene	529.5	4.0	644	0	82.2	40-140	0			
Benzo(k)fluoranthene	545.3	4.0	644	0	84.7	40-140	0			
Chrysene	587.3	4.0	644	0	91.2	40-140	0			
Dibenzo(a,h)anthracene	542.3	4.0	644	0	84.2	40-140	0			
Fluoranthene	589.9	4.0	644	0	91.6	40-140	0			
Fluorene	530	4.0	644	0	82.3	40-140	0			
Indeno(1,2,3-cd)pyrene	503.5	4.0	644	0	78.2	40-140	0			
Naphthalene	564.7	4.0	644	0	87.7	40-140	0			
Pyrene	496.3	4.0	644	0	77.1	40-140	0			
Surr: 2-Fluorobiphenyl	*579.8*	0	*644*	0	*90*	*20-140*	0			
Surr: 4-Terphenyl-d14	*524.1*	0	*644*	0	*81.4*	*22-172*	0			
Surr: Nitrobenzene-d5	*526*	0	*644*	0	*81.7*	*28-140*	0			

MSD Sample ID: **21120510-10B MSD** Units: **µg/Kg** Analysis Date: **12/10/2021 11:07 PM**

Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021575** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	610.1	4.1	648.7	0	94	40-140	592.9	2.86	30	
2-Methylnaphthalene	588.2	4.1	648.7	0	90.7	40-140	569.9	3.17	30	
Acenaphthene	563.3	4.1	648.7	0	86.8	40-140	550	2.39	30	
Anthracene	601	4.1	648.7	0	92.7	40-140	579.3	3.69	30	
Benzo(a)anthracene	596.4	4.1	648.7	0	91.9	40-140	587.3	1.55	30	
Benzo(a)pyrene	623.8	4.1	648.7	0	96.2	40-140	616.1	1.24	30	
Benzo(b)fluoranthene	547.4	4.1	648.7	0	84.4	40-140	529.5	3.32	30	
Benzo(k)fluoranthene	553.7	4.1	648.7	0	85.4	40-140	545.3	1.53	30	
Chrysene	599.4	4.1	648.7	0	92.4	40-140	587.3	2.04	30	
Dibenzo(a,h)anthracene	547.7	4.1	648.7	0	84.4	40-140	542.3	0.997	30	
Fluoranthene	605.7	4.1	648.7	0	93.4	40-140	589.9	2.64	30	
Fluorene	540.4	4.1	648.7	0	83.3	40-140	530	1.94	30	
Indeno(1,2,3-cd)pyrene	512.7	4.1	648.7	0	79	40-140	503.5	1.82	30	
Naphthalene	584	4.1	648.7	0	90	40-140	564.7	3.37	30	
Pyrene	505.7	4.1	648.7	0	78	40-140	496.3	1.88	30	
Surr: 2-Fluorobiphenyl	*593.2*	0	*648.7*	0	*91.4*	*20-140*	579.8	*2.29*	*30*	
Surr: 4-Terphenyl-d14	*535.8*	0	*648.7*	0	*82.6*	*22-172*	524.1	*2.22*	*30*	
Surr: Nitrobenzene-d5	*550.4*	0	*648.7*	0	*84.8*	*28-140*	526	*4.53*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188648** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188440** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **MBLK-188440-188440** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 08:31 PM**

Client ID: Run ID: **VMS10_211207A** SeqNo: **8008918** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	30								
1,3,5-Trimethylbenzene	U	100								
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	*967*	0	*1000*	0	*96.7*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*930.5*	0	*1000*	0	*93*	*70-130*	0			
Surr: Toluene-d8	*987*	0	*1000*	0	*98.7*	*70-130*	0			

LCS Sample ID: **LCS-188440-188440** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 07:41 PM**

Client ID: Run ID: **VMS10_211207A** SeqNo: **8008916** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1018	30	1000	0	102	65-135	0			
1,3,5-Trimethylbenzene	1048	100	1000	0	105	65-135	0			
Benzene	981	30	1000	0	98.1	75-125	0			
Ethylbenzene	1002	30	1000	0	100	75-125	0			
m,p-Xylene	2014	60	2000	0	101	80-125	0			
o-Xylene	1062	30	1000	0	106	75-125	0			
Toluene	973.5	30	1000	0	97.4	70-125	0			
Xylenes, Total	3075	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	*961.5*	0	*1000*	0	*96.2*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1026*	0	*1000*	0	*103*	*70-130*	0			
Surr: Dibromofluoromethane	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*1004*	0	*1000*	0	*100*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **188440** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **21120485-01A MS** Units: **µg/Kg-dry** Analysis Date: **12/10/2021 06:45 PM**

Client ID: Run ID: **VMS9_211210A** SeqNo: **8020119** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1574	47	1575	0	99.9	65-135	0			
1,3,5-Trimethylbenzene	1589	160	1575	0	101	65-135	0			
Benzene	1743	47	1575	0	111	75-125	0			
Ethylbenzene	1555	47	1575	0	98.7	75-125	0			
m,p-Xylene	3121	94	3150	0	99.1	80-125	0			
o-Xylene	1588	47	1575	0	101	75-125	0			
Toluene	1528	47	1575	0	97	70-125	0			
Xylenes, Total	4709	140	4725	0	99.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1608*	0	*1575*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1769*	0	*1575*	0	*112*	*70-130*	0			
Surr: Dibromofluoromethane	*1525*	0	*1575*	0	*96.8*	*70-130*	0			
Surr: Toluene-d8	*1529*	0	*1575*	0	*97.1*	*70-130*	0			

MSD Sample ID: **21120485-01A MSD** Units: **µg/Kg-dry** Analysis Date: **12/10/2021 07:01 PM**

Client ID: Run ID: **VMS9_211210A** SeqNo: **8020120** Prep Date: **12/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1357	40	1333	0	102	65-135	1574	14.8	30	
1,3,5-Trimethylbenzene	1364	130	1333	0	102	65-135	1589	15.2	30	
Benzene	1401	40	1333	0	105	75-125	1743	21.8	30	
Ethylbenzene	1335	40	1333	0	100	75-125	1555	15.3	30	
m,p-Xylene	2645	80	2665	0	99.2	80-125	3121	16.5	30	
o-Xylene	1317	40	1333	0	98.8	75-125	1588	18.7	30	
Toluene	1324	40	1333	0	99.4	70-125	1528	14.3	30	
Xylenes, Total	3961	120	3998	0	99.1	75-125	4709	17.2	30	
Surr: 1,2-Dichloroethane-d4	*1326*	0	*1333*	0	*99.5*	*70-130*	1608	*19.2*	*30*	
Surr: 4-Bromofluorobenzene	*1427*	0	*1333*	0	*107*	*70-130*	1769	*21.4*	*30*	
Surr: Dibromofluoromethane	*1193*	0	*1333*	0	*89.5*	*70-130*	1525	*24.4*	*30*	
Surr: Toluene-d8	*1305*	0	*1333*	0	*97.9*	*70-130*	1529	*15.9*	*30*	

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **189018** Instrument ID **SPEC-03** Method: **SW7196A**

MBLK Sample ID: **MBLK-189018-189018** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033137** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	U	1.0								

LCS Sample ID: **LCS-189018-189018** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033138** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.33	1.0	5	0	86.6	80-120	0			

MS Sample ID: **21120482-01A MS** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: **Unit 31 N** Run ID: **SPEC-03_211215B** SeqNo: **8033140** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	U	1.0	5	-0.67	13.4	75-125	0			S

MS Sample ID: **21120482-01A MSI** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: **Unit 31 N** Run ID: **SPEC-03_211215B** SeqNo: **8033142** Prep Date: **12/15/2021** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2470	100	2848	-0.67	86.8	75-125	0			

MSD Sample ID: **21120482-01A MSD** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: **Unit 31 N** Run ID: **SPEC-03_211215B** SeqNo: **8033141** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	U	1.0	5	-0.67	13.4	75-125	-0.3	0	20	S

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21120482
Project: Chevron Wilson Creek Unit 31 Reclamation

QC BATCH REPORT

Batch ID: **R334220** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R334220** Units: **% of sample** Analysis Date: **12/10/2021 11:53 AM**
Client ID: Run ID: **MOIST_211210A** SeqNo: **8019899** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS Sample ID: **LCS-R334220** Units: **% of sample** Analysis Date: **12/10/2021 11:53 AM**
Client ID: Run ID: **MOIST_211210A** SeqNo: **8019898** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP Sample ID: **21120642-01A DUP** Units: **% of sample** Analysis Date: **12/10/2021 11:53 AM**
Client ID: Run ID: **MOIST_211210A** SeqNo: **8019891** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	93.86	0.10	0	0	0	0-0	93.83	0.032	10	

DUP Sample ID: **21120750-01A DUP** Units: **% of sample** Analysis Date: **12/10/2021 11:53 AM**
Client ID: Run ID: **MOIST_211210A** SeqNo: **8019894** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	72.03	0.10	0	0	0	0-0	72.07	0.0555	10	

The following samples were analyzed in this batch: 21120482-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Chain of Custody Form

Page 1 of 1

☑ ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

ALS Project Manager: | ALS Work Order #: 2112048 2

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Chevron Wilson Creek Unit 31 Reclamatio	A	Table 915-Soils
Work Order		Project Number		B	
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group	C	
Send Report To	Tim Dobransky	Invoice Attn.		D	
Address	330 Grand Ave., Ste C	Address	330 Grand Ave., Ste, C	E	
				F	
City/State/Zip	Grand Junction, CO 81501	City/State/Zip	Grand Junction, CO 81501	G	
Phone	970-270-2986	Phone	970-270-2986	H	
Fax		Fax		I	
e-Mail Address	tdobransky@entradainc.com			J	

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
	UNIT 31 N	12/1/2021	1140	Soil	8/7	3	X										

Sampler(s): Please Print & Sign
J Dilka

Shipment Method:

Turnaround Time: (Business Days) ☑ 10 BD ☐ 5 BD ☐ 3 BD ☐ 2 BD ☐ 1 BD ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	12/2/21	1700	FedEx		
FedEx	12/3/21	1000			
Logged by (Laboratory): Ke	12/7/21	1015	Checked by (Laboratory):		

Notes:
Please run for COGCC Protection of GW low level standards

ALS Cooler ID	Cooler Temp
123	1.9°c

QC Package: (Check Box Below)
☐ Level II: Standard QC ☐ Level III: Raw Data
☐ TRRP LRC ☐ TRRP Level IV
☑ Level IV: SW846 Methods/CLP like
☐ Other: _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

ALS Group, USA

Sample Receipt Checklist

Client Name: **ENTRADA** Date/Time Received: **03-Dec-21 10:00**

Work Order: **21120482** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 07-Dec-21 (Date) Reviewed by: Chad Whelton (eSignature) 07-Dec-21 (Date)

Matrices: Soil

Carrier name: FedEx

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	
Sample(s) received on ice?	☑	☐	

Temperature(s)/Thermometer(s): 1.9/2.9 C IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 12/7/2021 10:17:01 AM

	Yes	No		
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted	☑
Water - pH acceptable upon receipt?	☐	☐	N/A	☑
pH adjusted?	☐	☐	N/A	☑

pH adjusted by: -

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ANALYTICAL REPORT

June 14, 2022

Revised Report

Entrada Consulting Group

Sample Delivery Group:	L1497102
Samples Received:	05/24/2022
Project Number:	
Description:	Chevron Wilson Creek Unit 31 P&A
Report To:	Tim Dobransky 330 Grand Avenue Suite C Grand Junction, CO 81501

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

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

TABLE OF CONTENTS

UNIT 31 NE L1497102-01 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 11:40 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1869202	1	06/13/22 21:01	06/13/22 21:01	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 14:46	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 14:04	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1869201	1	06/07/22 13:41	06/10/22 18:51	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 18:26	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1871465	1	05/25/22 16:38	05/30/22 01:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1871495	1	05/25/22 16:38	05/30/22 01:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	1	06/03/22 10:32	06/03/22 19:00	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 14:04	AMG	Mt. Juliet, TN

UNIT 31 NW L1497102-02 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 11:45 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1869202	1	06/13/22 21:04	06/13/22 21:04	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 14:51	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 14:07	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1869201	1	06/07/22 13:41	06/10/22 18:54	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 18:29	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1869789	1	05/25/22 16:38	05/26/22 07:06	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1871495	1	05/25/22 16:38	05/30/22 02:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	1	06/03/22 10:32	06/03/22 18:08	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 12:04	AMG	Mt. Juliet, TN

UNIT 31 SE L1497102-03 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 11:50 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1869202	1	06/13/22 21:07	06/13/22 21:07	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 14:56	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 13:20	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1869201	1	06/07/22 13:41	06/10/22 18:56	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 17:28	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1871465	1	05/25/22 16:38	05/30/22 01:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1871495	1	05/25/22 16:38	05/30/22 02:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	1	06/03/22 10:32	06/03/22 17:15	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 12:24	AMG	Mt. Juliet, TN

UNIT 31 SW L1497102-04 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 11:55 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1869202	1	06/13/22 21:10	06/13/22 21:10	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 15:01	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 14:10	ZSA	Mt. Juliet, TN

UNIT 31 SW L1497102-04 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 11:55 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1869201	1	06/07/22 13:41	06/10/22 18:59	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 18:39	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1871465	1	05/25/22 16:38	05/30/22 02:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1871497	1	05/25/22 16:38	05/30/22 06:09	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	20	06/03/22 10:32	06/03/22 22:16	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 15:23	AMG	Mt. Juliet, TN

UNIT 31 E L1497102-05 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 12:00 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1869202	1	06/13/22 21:13	06/13/22 21:13	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 15:06	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 14:18	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1869201	1	06/07/22 13:41	06/10/22 19:02	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 18:43	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1869789	1	05/25/22 16:38	05/26/22 08:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1871497	1	05/25/22 16:38	05/30/22 06:28	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	1	06/03/22 10:32	06/03/22 18:21	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 12:44	AMG	Mt. Juliet, TN

UNIT 31 W L1497102-06 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 12:05 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1874724	1	06/09/22 17:26	06/09/22 17:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 15:43	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 14:20	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1874677	1	06/07/22 10:11	06/09/22 16:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 18:46	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1871465	1	05/25/22 16:38	05/30/22 02:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1871497	1	05/25/22 16:38	05/30/22 06:46	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	1	06/03/22 10:32	06/03/22 18:34	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 13:04	AMG	Mt. Juliet, TN

UNIT 31 BE L1497102-07 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 12:10 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1874724	1	06/09/22 17:29	06/09/22 17:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 15:48	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 14:23	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1874677	1	06/07/22 10:11	06/09/22 16:15	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 18:49	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1869789	1	05/25/22 16:38	05/26/22 08:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1871497	1	05/25/22 16:38	05/30/22 07:05	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	5	06/03/22 10:32	06/03/22 19:26	JAS	Mt. Juliet, TN

UNIT 31 BE L1497102-07 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 12:10 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 13:44	AMG	Mt. Juliet, TN

UNIT 31 BW L1497102-08 Solid

Collected by: Jessica Dilka | Collected date/time: 05/23/22 12:15 | Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1874724	1	06/09/22 17:31	06/09/22 17:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1871534	1	05/31/22 02:37	05/31/22 15:53	SCM	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1873607	1	06/03/22 14:00	06/03/22 15:38	ARS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1874041	1	06/03/22 14:42	06/03/22 18:32	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1873333	1	06/03/22 09:05	06/06/22 14:26	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1874677	1	06/07/22 10:11	06/09/22 16:18	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1873332	5	06/03/22 09:00	06/03/22 18:53	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1869791	1	05/25/22 16:38	05/26/22 04:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1872294	1	05/25/22 16:38	06/01/22 06:41	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1873748	5	06/03/22 10:32	06/03/22 19:53	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1873425	1	06/03/22 06:32	06/03/22 15:03	AMG	Mt. Juliet, TN

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

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

Chris Ward

Chris Ward
Project Manager

Report Revision History

Level II Report - Version 1: 06/14/22 09:41

Project Narrative

Rerun to update project info

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.523		1	06/13/2022 21:01	WG1869202

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 14:46	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.61	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-01 WG1873607: 7.61 at 19.9C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	357		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-01 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	44.9		0.500	1	06/06/2022 14:04	WG1873333
Cadmium	ND		0.500	1	06/06/2022 14:04	WG1873333
Copper	9.71		2.00	1	06/06/2022 14:04	WG1873333
Lead	16.5		0.500	1	06/06/2022 14:04	WG1873333
Nickel	7.35		2.00	1	06/06/2022 14:04	WG1873333
Selenium	ND		2.00	1	06/06/2022 14:04	WG1873333
Silver	ND		1.00	1	06/06/2022 14:04	WG1873333
Zinc	37.8		5.00	1	06/06/2022 14:04	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/10/2022 18:51	WG1869201

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.64		1.00	5	06/03/2022 18:26	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.257		0.100	1	05/30/2022 01:32	WG1871465
(S) a,a,a-Trifluorotoluene(FID)	*94.9*		*77.0-120*		*05/30/2022 01:32*	WG1871465

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/30/2022 01:49	WG1871495
Toluene	ND		0.00500	1	05/30/2022 01:49	WG1871495
Ethylbenzene	ND		0.00250	1	05/30/2022 01:49	WG1871495
Xylenes, Total	ND		0.00650	1	05/30/2022 01:49	WG1871495
1,2,4-Trimethylbenzene	0.00963	B	0.00500	1	05/30/2022 01:49	WG1871495
1,3,5-Trimethylbenzene	ND		0.00500	1	05/30/2022 01:49	WG1871495
(S) Toluene-d8	*104*		*75.0-131*		*05/30/2022 01:49*	WG1871495
(S) 4-Bromofluorobenzene	*105*		*67.0-138*		*05/30/2022 01:49*	WG1871495
(S) 1,2-Dichloroethane-d4	*80.3*		*70.0-130*		*05/30/2022 01:49*	WG1871495

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	108		4.00	1	06/03/2022 19:00	WG1873748
C28-C36 Motor Oil Range	104		4.00	1	06/03/2022 19:00	WG1873748
(S) o-Terphenyl	*63.1*		*18.0-148*		*06/03/2022 19:00*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Benzo(b)fluoranthene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Fluoranthene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Fluorene	ND		0.00600	1	06/03/2022 14:04	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 14:04	WG1873425
1-Methylnaphthalene	ND		0.0200	1	06/03/2022 14:04	WG1873425
2-Methylnaphthalene	0.0236		0.0200	1	06/03/2022 14:04	WG1873425
Naphthalene	ND		0.0200	1	06/03/2022 14:04	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 14:04	WG1873425
(S) p-Terphenyl-d14	*86.7*		*23.0-120*		*06/03/2022 14:04*	WG1873425
(S) Nitrobenzene-d5	*87.9*		*14.0-149*		*06/03/2022 14:04*	WG1873425
(S) 2-Fluorobiphenyl	*70.2*		*34.0-125*		*06/03/2022 14:04*	WG1873425

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.424		1	06/13/2022 21:04	WG1869202

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 14:51	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.51	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-02 WG1873607: 7.51 at 19.9C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	247		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-02 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	32.0		0.500	1	06/06/2022 14:07	WG1873333
Cadmium	ND		0.500	1	06/06/2022 14:07	WG1873333
Copper	8.24		2.00	1	06/06/2022 14:07	WG1873333
Lead	10.2		0.500	1	06/06/2022 14:07	WG1873333
Nickel	7.10		2.00	1	06/06/2022 14:07	WG1873333
Selenium	ND		2.00	1	06/06/2022 14:07	WG1873333
Silver	ND		1.00	1	06/06/2022 14:07	WG1873333
Zinc	28.8		5.00	1	06/06/2022 14:07	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/10/2022 18:54	WG1869201

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.72		1.00	5	06/03/2022 18:29	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	05/26/2022 07:06	WG1869789
(S) a,a,a-Trifluorotoluene(FID)	*112*		*77.0-120*		*05/26/2022 07:06*	WG1869789

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/30/2022 02:08	WG1871495
Toluene	ND		0.00500	1	05/30/2022 02:08	WG1871495
Ethylbenzene	ND		0.00250	1	05/30/2022 02:08	WG1871495
Xylenes, Total	ND		0.00650	1	05/30/2022 02:08	WG1871495
1,2,4-Trimethylbenzene	ND		0.00500	1	05/30/2022 02:08	WG1871495
1,3,5-Trimethylbenzene	ND		0.00500	1	05/30/2022 02:08	WG1871495
(S) Toluene-d8	*103*		*75.0-131*		*05/30/2022 02:08*	WG1871495
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*05/30/2022 02:08*	WG1871495
(S) 1,2-Dichloroethane-d4	*86.6*		*70.0-130*		*05/30/2022 02:08*	WG1871495

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.21		4.00	1	06/03/2022 18:08	WG1873748
C28-C36 Motor Oil Range	4.30	B	4.00	1	06/03/2022 18:08	WG1873748
(S) o-Terphenyl	*52.0*		*18.0-148*		*06/03/2022 18:08*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Benzo(b)fluoranthene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Fluoranthene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Fluorene	ND		0.00600	1	06/03/2022 12:04	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 12:04	WG1873425
1-Methylnaphthalene	ND		0.0200	1	06/03/2022 12:04	WG1873425
2-Methylnaphthalene	ND		0.0200	1	06/03/2022 12:04	WG1873425
Naphthalene	ND		0.0200	1	06/03/2022 12:04	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 12:04	WG1873425
(S) p-Terphenyl-d14	*68.4*		*23.0-120*		*06/03/2022 12:04*	WG1873425
(S) Nitrobenzene-d5	*79.0*		*14.0-149*		*06/03/2022 12:04*	WG1873425
(S) 2-Fluorobiphenyl	*57.4*		*34.0-125*		*06/03/2022 12:04*	WG1873425

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.397		1	06/13/2022 21:07	WG1869202

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 14:56	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.38	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-03 WG1873607: 7.38 at 20C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	530		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-03 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	27.7	O1	0.500	1	06/06/2022 13:20	WG1873333
Cadmium	ND		0.500	1	06/06/2022 13:20	WG1873333
Copper	4.22		2.00	1	06/06/2022 13:20	WG1873333
Lead	12.9		0.500	1	06/06/2022 13:20	WG1873333
Nickel	6.18		2.00	1	06/06/2022 13:20	WG1873333
Selenium	ND		2.00	1	06/06/2022 13:20	WG1873333
Silver	ND		1.00	1	06/06/2022 13:20	WG1873333
Zinc	35.4		5.00	1	06/06/2022 13:20	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/10/2022 18:56	WG1869201

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.30		1.00	5	06/03/2022 17:28	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.182		0.100	1	05/30/2022 01:53	WG1871465
(S) a,a,a-Trifluorotoluene(FID)	*94.6*		*77.0-120*		*05/30/2022 01:53*	WG1871465

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/30/2022 02:27	WG1871495
Toluene	ND		0.00500	1	05/30/2022 02:27	WG1871495
Ethylbenzene	ND		0.00250	1	05/30/2022 02:27	WG1871495
Xylenes, Total	ND		0.00650	1	05/30/2022 02:27	WG1871495
1,2,4-Trimethylbenzene	ND		0.00500	1	05/30/2022 02:27	WG1871495
1,3,5-Trimethylbenzene	ND		0.00500	1	05/30/2022 02:27	WG1871495
(S) Toluene-d8	*102*		*75.0-131*		*05/30/2022 02:27*	WG1871495
(S) 4-Bromofluorobenzene	*105*		*67.0-138*		*05/30/2022 02:27*	WG1871495
(S) 1,2-Dichloroethane-d4	*87.3*		*70.0-130*		*05/30/2022 02:27*	WG1871495

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.68		4.00	1	06/03/2022 17:15	WG1873748
C28-C36 Motor Oil Range	ND		4.00	1	06/03/2022 17:15	WG1873748
(S) o-Terphenyl	*64.2*		*18.0-148*		*06/03/2022 17:15*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Benzo(b)fluoranthene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Fluoranthene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Fluorene	ND		0.00600	1	06/03/2022 12:24	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 12:24	WG1873425
1-Methylnaphthalene	ND		0.0200	1	06/03/2022 12:24	WG1873425
2-Methylnaphthalene	ND		0.0200	1	06/03/2022 12:24	WG1873425
Naphthalene	ND		0.0200	1	06/03/2022 12:24	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 12:24	WG1873425
(S) p-Terphenyl-d14	*89.6*		*23.0-120*		*06/03/2022 12:24*	WG1873425
(S) Nitrobenzene-d5	*78.9*		*14.0-149*		*06/03/2022 12:24*	WG1873425
(S) 2-Fluorobiphenyl	*72.1*		*34.0-125*		*06/03/2022 12:24*	WG1873425

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.04		1	06/13/2022 21:10	WG1869202

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 15:01	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.55	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-04 WG1873607: 7.55 at 20.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2530		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-04 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	35.1		0.500	1	06/06/2022 14:10	WG1873333
Cadmium	ND		0.500	1	06/06/2022 14:10	WG1873333
Copper	6.72		2.00	1	06/06/2022 14:10	WG1873333
Lead	13.9		0.500	1	06/06/2022 14:10	WG1873333
Nickel	14.6		2.00	1	06/06/2022 14:10	WG1873333
Selenium	ND		2.00	1	06/06/2022 14:10	WG1873333
Silver	ND		1.00	1	06/06/2022 14:10	WG1873333
Zinc	43.7		5.00	1	06/06/2022 14:10	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/10/2022 18:59	WG1869201

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.72		1.00	5	06/03/2022 18:39	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.22		0.100	1	05/30/2022 02:13	WG1871465
(S) a,a,a-Trifluorotoluene(FID)	*94.2*		*77.0-120*		*05/30/2022 02:13*	WG1871465

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/30/2022 06:09	WG1871497
Toluene	ND		0.00500	1	05/30/2022 06:09	WG1871497
Ethylbenzene	ND		0.00250	1	05/30/2022 06:09	WG1871497
Xylenes, Total	ND		0.00650	1	05/30/2022 06:09	WG1871497
1,2,4-Trimethylbenzene	0.0232		0.00500	1	05/30/2022 06:09	WG1871497
1,3,5-Trimethylbenzene	0.0641		0.00500	1	05/30/2022 06:09	WG1871497
(S) Toluene-d8	*113*		*75.0-131*		*05/30/2022 06:09*	WG1871497
(S) 4-Bromofluorobenzene	*99.8*		*67.0-138*		*05/30/2022 06:09*	WG1871497
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/30/2022 06:09*	WG1871497

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1710		80.0	20	06/03/2022 22:16	WG1873748
C28-C36 Motor Oil Range	729		80.0	20	06/03/2022 22:16	WG1873748
(S) o-Terphenyl	*0.000*	J7	*18.0-148*		*06/03/2022 22:16*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 15:23	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 15:23	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 15:23	WG1873425
Benzo(b)fluoranthene	0.00611		0.00600	1	06/03/2022 15:23	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 15:23	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 15:23	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 15:23	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 15:23	WG1873425
Fluoranthene	0.0299		0.00600	1	06/03/2022 15:23	WG1873425
Fluorene	0.288		0.00600	1	06/03/2022 15:23	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 15:23	WG1873425
1-Methylnaphthalene	1.07		0.0200	1	06/03/2022 15:23	WG1873425
2-Methylnaphthalene	0.106		0.0200	1	06/03/2022 15:23	WG1873425
Naphthalene	0.0505		0.0200	1	06/03/2022 15:23	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 15:23	WG1873425
(S) p-Terphenyl-d14	*91.9*		*23.0-120*		*06/03/2022 15:23*	WG1873425
(S) Nitrobenzene-d5	*668*	J1	*14.0-149*		*06/03/2022 15:23*	WG1873425
(S) 2-Fluorobiphenyl	*88.6*		*34.0-125*		*06/03/2022 15:23*	WG1873425

Sample Narrative:

L1497102-04 WG1873425: Surrogate failure due to matrix interference

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.710		1	06/13/2022 21:13	WG1869202

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 15:06	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.77	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-05 WG1873607: 7.77 at 20.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	249		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-05 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	118		0.500	1	06/06/2022 14:18	WG1873333
Cadmium	ND		0.500	1	06/06/2022 14:18	WG1873333
Copper	10.4		2.00	1	06/06/2022 14:18	WG1873333
Lead	9.75		0.500	1	06/06/2022 14:18	WG1873333
Nickel	6.87		2.00	1	06/06/2022 14:18	WG1873333
Selenium	ND		2.00	1	06/06/2022 14:18	WG1873333
Silver	ND		1.00	1	06/06/2022 14:18	WG1873333
Zinc	32.5		5.00	1	06/06/2022 14:18	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/10/2022 19:02	WG1869201

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.88		1.00	5	06/03/2022 18:43	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	05/26/2022 08:10	WG1869789
(S) a,a,a-Trifluorotoluene(FID)	*111*		*77.0-120*		*05/26/2022 08:10*	WG1869789

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/30/2022 06:28	WG1871497
Toluene	ND		0.00500	1	05/30/2022 06:28	WG1871497
Ethylbenzene	ND		0.00250	1	05/30/2022 06:28	WG1871497
Xylenes, Total	ND		0.00650	1	05/30/2022 06:28	WG1871497
1,2,4-Trimethylbenzene	ND		0.00500	1	05/30/2022 06:28	WG1871497
1,3,5-Trimethylbenzene	ND		0.00500	1	05/30/2022 06:28	WG1871497
(S) Toluene-d8	*112*		*75.0-131*		*05/30/2022 06:28*	WG1871497
(S) 4-Bromofluorobenzene	*97.8*		*67.0-138*		*05/30/2022 06:28*	WG1871497
(S) 1,2-Dichloroethane-d4	*97.4*		*70.0-130*		*05/30/2022 06:28*	WG1871497

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	26.1		4.00	1	06/03/2022 18:21	WG1873748
C28-C36 Motor Oil Range	27.4		4.00	1	06/03/2022 18:21	WG1873748
(S) o-Terphenyl	*66.6*		*18.0-148*		*06/03/2022 18:21*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Benzo(b)fluoranthene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Fluoranthene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Fluorene	ND		0.00600	1	06/03/2022 12:44	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 12:44	WG1873425
1-Methylnaphthalene	ND		0.0200	1	06/03/2022 12:44	WG1873425
2-Methylnaphthalene	ND		0.0200	1	06/03/2022 12:44	WG1873425
Naphthalene	ND		0.0200	1	06/03/2022 12:44	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 12:44	WG1873425
(S) p-Terphenyl-d14	*91.7*		*23.0-120*		*06/03/2022 12:44*	WG1873425
(S) Nitrobenzene-d5	*82.3*		*14.0-149*		*06/03/2022 12:44*	WG1873425
(S) 2-Fluorobiphenyl	*74.7*		*34.0-125*		*06/03/2022 12:44*	WG1873425

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.41		1	06/09/2022 17:26	WG1874724

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 15:43	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.95	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-06 WG1873607: 7.95 at 20.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	976		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-06 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	55.3		0.500	1	06/06/2022 14:20	WG1873333
Cadmium	ND		0.500	1	06/06/2022 14:20	WG1873333
Copper	9.74		2.00	1	06/06/2022 14:20	WG1873333
Lead	11.1		0.500	1	06/06/2022 14:20	WG1873333
Nickel	5.94		2.00	1	06/06/2022 14:20	WG1873333
Selenium	ND		2.00	1	06/06/2022 14:20	WG1873333
Silver	ND		1.00	1	06/06/2022 14:20	WG1873333
Zinc	30.6		5.00	1	06/06/2022 14:20	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/09/2022 16:13	WG1874677

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.09		1.00	5	06/03/2022 18:46	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.618		0.100	1	05/30/2022 02:34	WG1871465
(S) a,a,a-Trifluorotoluene(FID)	*95.0*		*77.0-120*		*05/30/2022 02:34*	WG1871465

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/30/2022 06:46	WG1871497
Toluene	ND		0.00500	1	05/30/2022 06:46	WG1871497
Ethylbenzene	ND		0.00250	1	05/30/2022 06:46	WG1871497
Xylenes, Total	ND		0.00650	1	05/30/2022 06:46	WG1871497
1,2,4-Trimethylbenzene	ND		0.00500	1	05/30/2022 06:46	WG1871497
1,3,5-Trimethylbenzene	ND		0.00500	1	05/30/2022 06:46	WG1871497
(S) Toluene-d8	*113*		*75.0-131*		*05/30/2022 06:46*	WG1871497
(S) 4-Bromofluorobenzene	*98.7*		*67.0-138*		*05/30/2022 06:46*	WG1871497
(S) 1,2-Dichloroethane-d4	*97.1*		*70.0-130*		*05/30/2022 06:46*	WG1871497

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	76.9		4.00	1	06/03/2022 18:34	WG1873748
C28-C36 Motor Oil Range	73.6		4.00	1	06/03/2022 18:34	WG1873748
(S) o-Terphenyl	*57.6*		*18.0-148*		*06/03/2022 18:34*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Benzo(b)fluoranthene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Fluoranthene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Fluorene	ND		0.00600	1	06/03/2022 13:04	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 13:04	WG1873425
1-Methylnaphthalene	ND		0.0200	1	06/03/2022 13:04	WG1873425
2-Methylnaphthalene	ND		0.0200	1	06/03/2022 13:04	WG1873425
Naphthalene	ND		0.0200	1	06/03/2022 13:04	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 13:04	WG1873425
(S) p-Terphenyl-d14	*66.5*		*23.0-120*		*06/03/2022 13:04*	WG1873425
(S) Nitrobenzene-d5	*78.6*		*14.0-149*		*06/03/2022 13:04*	WG1873425
(S) 2-Fluorobiphenyl	*55.3*		*34.0-125*		*06/03/2022 13:04*	WG1873425

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.356		1	06/09/2022 17:29	WG1874724

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 15:48	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.71	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-07 WG1873607: 7.71 at 20.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1720		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-07 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	73.5		0.500	1	06/06/2022 14:23	WG1873333
Cadmium	0.745		0.500	1	06/06/2022 14:23	WG1873333
Copper	22.1		2.00	1	06/06/2022 14:23	WG1873333
Lead	22.7		0.500	1	06/06/2022 14:23	WG1873333
Nickel	18.0		2.00	1	06/06/2022 14:23	WG1873333
Selenium	ND		2.00	1	06/06/2022 14:23	WG1873333
Silver	ND		1.00	1	06/06/2022 14:23	WG1873333
Zinc	70.1		5.00	1	06/06/2022 14:23	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/09/2022 16:15	WG1874677

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	13.0		1.00	5	06/03/2022 18:49	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	05/26/2022 08:53	WG1869789
(S) a,a,a-Trifluorotoluene(FID)	*111*		*77.0-120*		*05/26/2022 08:53*	WG1869789

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/30/2022 07:05	WG1871497
Toluene	ND		0.00500	1	05/30/2022 07:05	WG1871497
Ethylbenzene	ND		0.00250	1	05/30/2022 07:05	WG1871497
Xylenes, Total	ND		0.00650	1	05/30/2022 07:05	WG1871497
1,2,4-Trimethylbenzene	ND		0.00500	1	05/30/2022 07:05	WG1871497
1,3,5-Trimethylbenzene	ND		0.00500	1	05/30/2022 07:05	WG1871497
(S) Toluene-d8	*113*		*75.0-131*		*05/30/2022 07:05*	WG1871497
(S) 4-Bromofluorobenzene	*101*		*67.0-138*		*05/30/2022 07:05*	WG1871497
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/30/2022 07:05*	WG1871497

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	47.8		20.0	5	06/03/2022 19:26	WG1873748
C28-C36 Motor Oil Range	72.6		20.0	5	06/03/2022 19:26	WG1873748
(S) o-Terphenyl	*68.9*		*18.0-148*		*06/03/2022 19:26*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Benzo(b)fluoranthene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Fluoranthene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Fluorene	ND		0.00600	1	06/03/2022 13:44	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 13:44	WG1873425
1-Methylnaphthalene	ND		0.0200	1	06/03/2022 13:44	WG1873425
2-Methylnaphthalene	ND		0.0200	1	06/03/2022 13:44	WG1873425
Naphthalene	ND		0.0200	1	06/03/2022 13:44	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 13:44	WG1873425
(S) p-Terphenyl-d14	*78.6*		*23.0-120*		*06/03/2022 13:44*	WG1873425
(S) Nitrobenzene-d5	*73.3*		*14.0-149*		*06/03/2022 13:44*	WG1873425
(S) 2-Fluorobiphenyl	*65.0*		*34.0-125*		*06/03/2022 13:44*	WG1873425

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.69		1	06/09/2022 17:31	WG1874724

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/31/2022 15:53	WG1871534

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.39	T8	1	06/03/2022 15:38	WG1873607

Sample Narrative:

L1497102-08 WG1873607: 7.39 at 20.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1170		10.0	1	06/03/2022 18:32	WG1874041

Sample Narrative:

L1497102-08 WG1874041: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	41.0		0.500	1	06/06/2022 14:26	WG1873333
Cadmium	ND		0.500	1	06/06/2022 14:26	WG1873333
Copper	10.7		2.00	1	06/06/2022 14:26	WG1873333
Lead	14.9		0.500	1	06/06/2022 14:26	WG1873333
Nickel	10.5		2.00	1	06/06/2022 14:26	WG1873333
Selenium	ND		2.00	1	06/06/2022 14:26	WG1873333
Silver	ND		1.00	1	06/06/2022 14:26	WG1873333
Zinc	42.8		5.00	1	06/06/2022 14:26	WG1873333

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/09/2022 16:18	WG1874677

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.36		1.00	5	06/03/2022 18:53	WG1873332

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.230		0.100	1	05/26/2022 04:05	WG1869791
(S) a,a,a-Trifluorotoluene(FID)	*91.6*		*77.0-120*		*05/26/2022 04:05*	WG1869791

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/01/2022 06:41	WG1872294
Toluene	ND		0.00500	1	06/01/2022 06:41	WG1872294
Ethylbenzene	ND		0.00250	1	06/01/2022 06:41	WG1872294
Xylenes, Total	ND		0.00650	1	06/01/2022 06:41	WG1872294
1,2,4-Trimethylbenzene	ND		0.00500	1	06/01/2022 06:41	WG1872294
1,3,5-Trimethylbenzene	ND		0.00500	1	06/01/2022 06:41	WG1872294
(S) Toluene-d8	*99.9*		*75.0-131*		*06/01/2022 06:41*	WG1872294
(S) 4-Bromofluorobenzene	*111*		*67.0-138*		*06/01/2022 06:41*	WG1872294
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*06/01/2022 06:41*	WG1872294

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	848		20.0	5	06/03/2022 19:53	WG1873748
C28-C36 Motor Oil Range	457		20.0	5	06/03/2022 19:53	WG1873748
(S) o-Terphenyl	*72.3*		*18.0-148*		*06/03/2022 19:53*	WG1873748

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Anthracene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Benzo(a)anthracene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Benzo(b)fluoranthene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Benzo(k)fluoranthene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Benzo(a)pyrene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Chrysene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Dibenz(a,h)anthracene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Fluoranthene	0.0187		0.00600	1	06/03/2022 15:03	WG1873425
Fluorene	ND		0.00600	1	06/03/2022 15:03	WG1873425
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/03/2022 15:03	WG1873425
1-Methylnaphthalene	0.0206		0.0200	1	06/03/2022 15:03	WG1873425
2-Methylnaphthalene	ND		0.0200	1	06/03/2022 15:03	WG1873425
Naphthalene	ND		0.0200	1	06/03/2022 15:03	WG1873425
Pyrene	ND		0.00600	1	06/03/2022 15:03	WG1873425
(S) p-Terphenyl-d14	*89.3*		*23.0-120*		*06/03/2022 15:03*	WG1873425
(S) Nitrobenzene-d5	*224*	J1	*14.0-149*		*06/03/2022 15:03*	WG1873425
(S) 2-Fluorobiphenyl	*60.2*		*34.0-125*		*06/03/2022 15:03*	WG1873425

Sample Narrative:

L1497102-08 WG1873425: Surrogate failure due to matrix interference

QUALITY CONTROL SUMMARY

L1497102-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3797980-1 05/31/22 14:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	0.327	J	0.255	1.00

L1497100-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1497100-02 05/31/22 14:33 • (DUP) R3797980-3 05/31/22 14:40

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	ND	ND	1	60.1	P1	20

Sample Narrative:

DUP: RPD failure due to matrix.

L1497105-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1497105-01 05/31/22 15:58 • (DUP) R3797980-8 05/31/22 16:03

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

Laboratory Control Sample (LCS)

(LCS) R3797980-2 05/31/22 14:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.0	100	80.0-120	

L1497102-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497102-05 05/31/22 15:06 • (MS) R3797980-4 05/31/22 15:12 • (MSD) R3797980-5 05/31/22 15:27

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	ND	19.9	19.0	96.7	92.3	1	75.0-125			4.49	20

L1497102-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1497102-05 05/31/22 15:06 • (MS) R3797980-6 05/31/22 15:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	662	ND	660	99.7	50	75.0-125	

L1497102-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1497102-05 06/03/22 15:38 • (DUP) R3799272-2 06/03/22 15:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.77	7.82	1	0.641		1

Sample Narrative:

OS: 7.77 at 20.1C

DUP: 7.82 at 20.2C

L1497515-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1497515-03 06/03/22 15:38 • (DUP) R3799272-3 06/03/22 15:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.74	6.79	1	0.739		1

Sample Narrative:

OS: 6.74 at 20.4C

DUP: 6.79 at 20.5C

Laboratory Control Sample (LCS)

(LCS) R3799272-1 06/03/22 15:38

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 19.5C

Method Blank (MB)

(MB) R3799343-1 06/03/22 18:32

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:
BLANK: at 25C

L1498324-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1498324-01 06/03/22 18:32 • (DUP) R3799343-3 06/03/22 18:32

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	6170	6170	1	0.000		20

Sample Narrative:
OS: at 25C
DUP: at 25C

L1498929-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1498929-09 06/03/22 18:32 • (DUP) R3799343-4 06/03/22 18:32

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	5150	5020	1	2.56		20

Sample Narrative:
OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3799343-2 06/03/22 18:32

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	283	106	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R3799988-1 06/06/22 13:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3799988-2 06/06/22 13:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	98.9	98.9	80.0-120	
Cadmium	100	93.9	93.9	80.0-120	
Copper	100	96.4	96.4	80.0-120	
Lead	100	94.4	94.4	80.0-120	
Nickel	100	94.5	94.5	80.0-120	
Selenium	100	95.8	95.8	80.0-120	
Silver	20.0	19.0	94.9	80.0-120	
Zinc	100	92.0	92.0	80.0-120	

L1497102-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497102-03 06/06/22 13:20 • (MS) R3799988-5 06/06/22 13:28 • (MSD) R3799988-6 06/06/22 13:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	27.7	127	125	99.6	96.8	1	75.0-125			2.24	20
Cadmium	100	ND	97.5	96.4	97.4	96.3	1	75.0-125			1.10	20
Copper	100	4.22	105	104	100	99.4	1	75.0-125			1.02	20
Lead	100	12.9	111	109	98.4	96.3	1	75.0-125			1.90	20
Nickel	100	6.18	104	103	98.3	96.4	1	75.0-125			1.88	20
Selenium	100	ND	99.6	98.0	99.6	98.0	1	75.0-125			1.66	20
Silver	20.0	ND	19.4	19.1	96.9	95.6	1	75.0-125			1.30	20
Zinc	100	35.4	131	124	95.5	88.3	1	75.0-125			5.71	20

QUALITY CONTROL SUMMARY

L1497102-01,02,03,04,05

Method Blank (MB)

(MB) R3802184-1 06/10/22 18:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3802184-2 06/10/22 18:11 • (LCSD) R3802184-3 06/10/22 18:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.974	0.961	97.4	96.1	80.0-120			1.40	20

Method Blank (MB)

(MB) R3801596-1 06/09/22 16:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3801596-2 06/09/22 16:07 • (LCSD) R3801596-3 06/09/22 16:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.00	1.00	100	100	80.0-120			0.280	20

QUALITY CONTROL SUMMARY

L1497102-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3799508-1 06/03/22 17:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3799508-2 06/03/22 17:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	105	105	80.0-120	

L1497102-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497102-03 06/03/22 17:28 • (MS) R3799508-5 06/03/22 17:38 • (MSD) R3799508-6 06/03/22 17:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.30	113	109	110	106	5	75.0-125			3.64	20

QUALITY CONTROL SUMMARY

L1497102-02,05,07

Method Blank (MB)

(MB) R3797297-2 05/26/22 00:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3797297-1 05/26/22 00:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.74	86.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Method Blank (MB)

(MB) R3796444-2 05/26/22 00:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3796444-1 05/25/22 23:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.67	84.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1497126-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497126-01 05/26/22 04:25 • (MS) R3796444-3 05/26/22 10:23 • (MSD) R3796444-4 05/26/22 10:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.45	0.131	3.35	3.46	59.1	60.5	1	10.0-151			3.23	28
(S) a,a,a-Trifluorotoluene(FID)					*98.9*	*100*		*77.0-120*				

QUALITY CONTROL SUMMARY

L1497102-01,03,04,06

Method Blank (MB)

(MB) R3797501-2 05/29/22 19:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3797501-1 05/29/22 18:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.62	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*109*	*77.0-120*	

Method Blank (MB)

(MB) R3798210-2 05/29/22 21:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	0.00290	J	0.00158	0.00500
1,3,5-Trimethylbenzene	0.00258	J	0.00200	0.00500
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3798210-1 05/29/22 20:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.119	95.2	70.0-123	
Toluene	0.125	0.111	88.8	75.0-121	
Ethylbenzene	0.125	0.113	90.4	74.0-126	
Xylenes, Total	0.375	0.343	91.5	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.0954	76.3	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.0998	79.8	73.0-127	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*104*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*97.1*	*70.0-130*	

Method Blank (MB)

(MB) R3798230-2 05/30/22 01:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*114*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3798230-1 05/30/22 00:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.0981	78.5	70.0-123	
Toluene	0.125	0.116	92.8	75.0-121	
Ethylbenzene	0.125	0.115	92.0	74.0-126	
Xylenes, Total	0.375	0.342	91.2	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.0976	78.1	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.103	82.4	73.0-127	
(S) Toluene-d8			*111*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*108*	*70.0-130*	

QUALITY CONTROL SUMMARY

L1497102-08

Method Blank (MB)

(MB) R3798087-3 06/01/22 02:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*99.7*			*75.0-131*
(S) 4-Bromofluorobenzene	*106*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3798087-1 06/01/22 01:36 • (LCSD) R3798087-2 06/01/22 01:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.119	0.121	95.2	96.8	70.0-123			1.67	20
Toluene	0.125	0.110	0.110	88.0	88.0	75.0-121			0.000	20
Ethylbenzene	0.125	0.112	0.113	89.6	90.4	74.0-126			0.889	20
Xylenes, Total	0.375	0.329	0.343	87.7	91.5	72.0-127			4.17	20
1,2,4-Trimethylbenzene	0.125	0.0900	0.0930	72.0	74.4	70.0-126			3.28	20
1,3,5-Trimethylbenzene	0.125	0.0991	0.0987	79.3	79.0	73.0-127			0.404	20
(S) Toluene-d8				*99.2*	*98.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*105*	*106*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*100*	*100*	*70.0-130*				

L1497353-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497353-05 06/01/22 04:09 • (MS) R3798087-4 06/01/22 09:51 • (MSD) R3798087-5 06/01/22 10:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.495	0.277	0.695	0.692	84.4	83.8	4	10.0-149			0.433	37
Toluene	0.495	6.04	6.63	5.82	119	0.000	4	10.0-156		V	13.0	38
Ethylbenzene	0.495	1.14	1.65	1.57	103	86.9	4	10.0-160			4.97	38
Xylenes, Total	1.48	19.5	21.5	20.7	135	81.1	4	10.0-160			3.79	38
1,2,4-Trimethylbenzene	0.495	3.77	3.94	4.15	34.3	76.8	4	10.0-160			5.19	36
1,3,5-Trimethylbenzene	0.495	3.49	3.64	3.76	30.3	54.5	4	10.0-160			3.24	38
(S) Toluene-d8					*109*	*91.6*		*75.0-131*				
(S) 4-Bromofluorobenzene					*121*	*129*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*95.1*	*101*		*70.0-130*				

QUALITY CONTROL SUMMARY

L1497102-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3799437-1 06/03/22 16:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.998	J	0.274	4.00
(S) o-Terphenyl	*73.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3799437-2 06/03/22 16:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.1	64.2	50.0-150	
(S) o-Terphenyl			*74.2*	*18.0-148*	

L1497096-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497096-02 06/03/22 20:45 • (MS) R3799437-3 06/03/22 20:58 • (MSD) R3799437-4 06/03/22 21:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.8	360	427	467	135	214	5	50.0-150		V	8.95	20
(S) o-Terphenyl					*68.8*	*74.2*		*18.0-148*				

Method Blank (MB)

(MB) R3799631-2 06/03/22 11:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00209	0.00600
Anthracene	U		0.00230	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	*91.2*			*23.0-120*
(S) Nitrobenzene-d5	*77.0*			*14.0-149*
(S) 2-Fluorobiphenyl	*71.9*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R3799631-1 06/03/22 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0600	75.0	50.0-120	
Anthracene	0.0800	0.0607	75.9	50.0-126	
Benzo(a)anthracene	0.0800	0.0614	76.8	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0606	75.8	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0575	71.9	49.0-125	
Benzo(a)pyrene	0.0800	0.0527	65.9	42.0-120	
Chrysene	0.0800	0.0610	76.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0634	79.3	47.0-125	
Fluoranthene	0.0800	0.0632	79.0	49.0-129	
Fluorene	0.0800	0.0622	77.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0632	79.0	46.0-125	
1-Methylnaphthalene	0.0800	0.0627	78.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0577	72.1	50.0-120	
Naphthalene	0.0800	0.0626	78.3	50.0-120	
Pyrene	0.0800	0.0597	74.6	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R3799631-1 06/03/22 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*95.8*	*23.0-120*	
(S) Nitrobenzene-d5			*87.4*	*14.0-149*	
(S) 2-Fluorobiphenyl			*80.1*	*34.0-125*	

L1497065-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497065-01 06/03/22 16:23 • (MS) R3799631-3 06/03/22 16:43 • (MSD) R3799631-4 06/03/22 17:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0792	ND	0.0493	0.0637	62.2	80.4	1	14.0-127			25.5	27
Anthracene	0.0792	ND	0.0432	0.0450	54.5	56.8	1	10.0-145			4.08	30
Benzo(a)anthracene	0.0792	0.0132	0.0522	0.0683	49.2	69.6	1	10.0-139			26.7	30
Benzo(b)fluoranthene	0.0792	0.0218	0.0453	0.0644	29.7	53.8	1	10.0-140			34.8	36
Benzo(k)fluoranthene	0.0792	ND	0.0375	0.0463	47.3	58.5	1	10.0-137			21.0	31
Benzo(a)pyrene	0.0792	0.00777	0.0423	0.0550	43.6	59.6	1	10.0-141			26.1	31
Chrysene	0.0792	0.0707	0.0664	0.109	0.000	48.4	1	10.0-145	J6	J3	48.6	30
Dibenz(a,h)anthracene	0.0792	0.00900	0.0430	0.0566	42.9	60.1	1	10.0-132			27.3	31
Fluoranthene	0.0792	0.0171	0.0515	0.0690	43.4	65.5	1	10.0-153			29.0	33
Fluorene	0.0792	0.0955	0.0930	0.148	0.000	66.3	1	11.0-130	J6	J3	45.6	29
Indeno(1,2,3-cd)pyrene	0.0792	ND	0.0445	0.0562	50.2	65.0	1	10.0-137			23.2	32
1-Methylnaphthalene	0.0792	0.347	0.296	0.514	0.000	211	1	10.0-142	V	J3 V	53.8	28
2-Methylnaphthalene	0.0792	0.839	0.561	0.958	0.000	150	1	10.0-137	V	J3 V	52.3	28
Naphthalene	0.0792	0.576	0.403	0.644	0.000	85.9	1	10.0-135	V	J3	46.0	27
Pyrene	0.0792	0.0203	0.0486	0.0686	35.7	61.0	1	10.0-148			34.1	35
(S) p-Terphenyl-d14					*61.6*	*72.9*		*23.0-120*				
(S) Nitrobenzene-d5					*69.5*	*82.7*		*14.0-149*				
(S) 2-Fluorobiphenyl					*51.7*	*56.8*		*34.0-125*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: **Chevron Wilson Creek Unit 31 P&A**

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project #

Lab Project #

Collected by (print): **Jessica Dilka**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1497102
H028

Acctnum: **SCOENERCO**
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 VOCs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	Soil TPH Table 915 (GRO/DRO/ORO)	SAR/EC/pH	Table 915 BTEX, TMBs				Remarks	Sample # (lab only)
Unit 31 NE	G	SS	6'	5/23/22	1140	3	X	X	X	X	X	X	X					01
Unit 31 NW			6'		1145	3	X	X	X	X	X	X	X					02
Unit 31 SE			9'		1150	3	X	X	X	X	X	X	X					03
Unit 31 SW			9'		1155	3	X	X	X	X	X	X	X					04
Unit 31 E			9'		1200	3	X	X	X	X	X	X	X					05
Unit 31 W			8'		1205	3	X	X	X	X	X	X	X					06
Unit 31 BE			14'		1210	3	X	X	X	X	X	X	X					07
Unit 31 BW	G	SS	12'	5/23/22	1215	3	X	X	X	X	X	X	X					08

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 5755 8071 9782

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	5/23/22	1730	
Relinquished by : (Signature)	Date: 5/23/22	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

DRAFT
Temp: .1 +2 .1 °C Bottles Received: 24-802

Date: 5/24/22 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 24, 2022

Tim Dobransky
Entrada Consulting Group
330 Grand Ave
Unit C
Grand Junction, CO 81503

RE: Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Dear Tim Dobransky:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,

Heather M. Wilson

Heather Wilson
heather.wilson@pacelabs.com
1(913)563-1407
Project Manager

Enclosures

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 20-020-0
Arkansas Drinking Water
Illinois Certification #: 2000302021-3
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212020-2
Oklahoma Certification #: 9205/9935
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-21-15
Utah Certification #: KS000212019-9
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

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SAMPLE SUMMARY

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60403280001	**UNIT 31 BW (18')**	Solid	06/16/22 13:00	06/18/22 12:40
60403280002	**UNIT 31 SW2 (4')**	Solid	06/16/22 13:10	06/18/22 12:40
60403280003	**UNIT 31 BSW (8')**	Solid	06/16/22 13:05	06/18/22 12:40
60403280004	**UNIT 31 SE2 (4')**	Solid	06/16/22 13:15	06/18/22 12:40
60403280005	**UNIT 31-FL2 (2')**	Solid	06/16/22 11:45	06/18/22 12:40
60403280006	**UNIT 31-FL2 (5')**	Solid	06/16/22 14:25	06/18/22 12:40
60403280007	**UNIT 31-FL-NSW (3.5)**	Solid	06/16/22 14:30	06/18/22 12:40
60403280008	**UNIT 31-FL-SSW (3.5)**	Solid	06/16/22 14:35	06/18/22 12:40
60403280009	**UNIT 31-FL-ESW (3.5)**	Solid	06/16/22 14:40	06/18/22 12:40
60403280010	**UNIT 31-FL-WSW (3.5)**	Solid	06/16/22 14:45	06/18/22 12:40

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SAMPLE ANALYTE COUNT

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60403280001	**UNIT 31 BW (18')**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280002	**UNIT 31 SW2 (4')**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280003	**UNIT 31 BSW (8')**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280004	**UNIT 31 SE2 (4')**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280005	**UNIT 31-FL2 (2')**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280006	**UNIT 31-FL2 (5')**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280007	**UNIT 31-FL-NSW (3.5)**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280008	**UNIT 31-FL-SSW (3.5)**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280009	**UNIT 31-FL-ESW (3.5)**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403280010	**UNIT 31-FL-WSW (3.5)**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31 BW (18') **Lab ID: 60403280001** Collected: 06/16/22 13:00 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**11.9J**	mg/kg	40.4	1	06/21/22 03:21	06/22/22 17:39		
TPH-DRO (C10-C28)	**10.6J**	mg/kg	20.2	1	06/21/22 03:21	06/22/22 17:39		
Surrogates								
n-Tetracosane (S)	74	%	31-152	1	06/21/22 03:21	06/22/22 17:39	646-31-1	
p-Terphenyl (S)	87	%	46-130	1	06/21/22 03:21	06/22/22 17:39	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	ND	mg/kg	10.1	1	06/23/22 16:37	06/24/22 02:19		
Surrogates								
4-Bromofluorobenzene (S)	98	%	66-130	1	06/23/22 16:37	06/24/22 02:19	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**4.1**	%	0.50	1		06/20/22 16:49		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31 SW2 (4') **Lab ID: 60403280002** Collected: 06/16/22 13:10 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**166**	mg/kg	21.3	1	06/21/22 03:21	06/22/22 17:56		
TPH-DRO (C10-C28)	**591**	mg/kg	10.6	1	06/21/22 03:21	06/22/22 17:56		
Surrogates								
n-Tetracosane (S)	83	%	31-152	1	06/21/22 03:21	06/22/22 17:56	646-31-1	
p-Terphenyl (S)	78	%	46-130	1	06/21/22 03:21	06/22/22 17:56	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	**13.0**	mg/kg	11.7	1	06/23/22 16:37	06/24/22 02:34		
Surrogates								
4-Bromofluorobenzene (S)	99	%	66-130	1	06/23/22 16:37	06/24/22 02:34	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**8.5**	%	0.50	1		06/20/22 16:49		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31 BSW (8') **Lab ID: 60403280003** Collected: 06/16/22 13:05 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**24.3**	mg/kg	21.5	1	06/21/22 03:21	06/22/22 18:12		
TPH-DRO (C10-C28)	**42.2**	mg/kg	10.7	1	06/21/22 03:21	06/22/22 18:12		
Surrogates								
n-Tetracosane (S)	71	%	31-152	1	06/21/22 03:21	06/22/22 18:12	646-31-1	
p-Terphenyl (S)	84	%	46-130	1	06/21/22 03:21	06/22/22 18:12	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	**2.1J**	mg/kg	10.9	1	06/23/22 16:37	06/24/22 02:50		
Surrogates								
4-Bromofluorobenzene (S)	98	%	66-130	1	06/23/22 16:37	06/24/22 02:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**7.7**	%	0.50	1		06/20/22 16:49		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31 SE2 (4') **Lab ID: 60403280004** Collected: 06/16/22 13:15 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**14.9J**	mg/kg	21.1	1	06/21/22 03:21	06/22/22 18:29		
TPH-DRO (C10-C28)	**34.4**	mg/kg	10.5	1	06/21/22 03:21	06/22/22 18:29		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	06/21/22 03:21	06/22/22 18:29	646-31-1	
p-Terphenyl (S)	90	%	46-130	1	06/21/22 03:21	06/22/22 18:29	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	ND	mg/kg	9.9	1	06/23/22 16:37	06/24/22 03:06		
Surrogates								
4-Bromofluorobenzene (S)	98	%	66-130	1	06/23/22 16:37	06/24/22 03:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**7.1**	%	0.50	1		06/20/22 16:49		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31-FL2 (2') **Lab ID: 60403280005** Collected: 06/16/22 11:45 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**123**	mg/kg	23.9	1	06/21/22 03:21	06/22/22 19:02		
TPH-DRO (C10-C28)	**873**	mg/kg	11.9	1	06/21/22 03:21	06/22/22 19:02		
Surrogates								
n-Tetracosane (S)	184	%	31-152	1	06/21/22 03:21	06/22/22 19:02	646-31-1	S5
p-Terphenyl (S)	73	%	46-130	1	06/21/22 03:21	06/22/22 19:02	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	**157**	mg/kg	12.7	1	06/23/22 16:37	06/24/22 03:37		
Surrogates								
4-Bromofluorobenzene (S)	103	%	66-130	1	06/23/22 16:37	06/24/22 03:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**17.6**	%	0.50	1		06/20/22 16:49		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31-FL2 (5') **Lab ID: 60403280006** Collected: 06/16/22 14:25 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**40.6**	mg/kg	21.8	1	06/21/22 03:21	06/22/22 19:19		
TPH-DRO (C10-C28)	**32.3**	mg/kg	10.9	1	06/21/22 03:21	06/22/22 19:19		
Surrogates								
n-Tetracosane (S)	79	%	31-152	1	06/21/22 03:21	06/22/22 19:19	646-31-1	
p-Terphenyl (S)	89	%	46-130	1	06/21/22 03:21	06/22/22 19:19	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	**5.2J**	mg/kg	11.1	1	06/23/22 16:37	06/24/22 03:52		
Surrogates								
4-Bromofluorobenzene (S)	101	%	66-130	1	06/23/22 16:37	06/24/22 03:52	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**8.8**	%	0.50	1		06/20/22 16:50		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31-FL-NSW (3.5) **Lab ID: 60403280007** Collected: 06/16/22 14:30 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**108**	mg/kg	22.4	1	06/21/22 03:21	06/22/22 19:35		
TPH-DRO (C10-C28)	**103**	mg/kg	11.2	1	06/21/22 03:21	06/22/22 19:35		
Surrogates								
n-Tetracosane (S)	110	%	31-152	1	06/21/22 03:21	06/22/22 19:35	646-31-1	
p-Terphenyl (S)	115	%	46-130	1	06/21/22 03:21	06/22/22 19:35	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	**1.8J**	mg/kg	11.8	1	06/23/22 16:37	06/24/22 04:08		
Surrogates								
4-Bromofluorobenzene (S)	95	%	66-130	1	06/23/22 16:37	06/24/22 04:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**12.7**	%	0.50	1		06/20/22 16:50		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31-FL-SSW (3.5) **Lab ID: 60403280008** Collected: 06/16/22 14:35 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**30.9**	mg/kg	22.9	1	06/21/22 03:21	06/22/22 19:52		
TPH-DRO (C10-C28)	**24.4**	mg/kg	11.4	1	06/21/22 03:21	06/22/22 19:52		
Surrogates								
n-Tetracosane (S)	80	%	31-152	1	06/21/22 03:21	06/22/22 19:52	646-31-1	
p-Terphenyl (S)	92	%	46-130	1	06/21/22 03:21	06/22/22 19:52	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	ND	mg/kg	12.6	1	06/23/22 16:37	06/24/22 04:24		
Surrogates								
4-Bromofluorobenzene (S)	98	%	66-130	1	06/23/22 16:37	06/24/22 04:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**14.4**	%	0.50	1		06/20/22 16:50		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31-FL-ESW (3.5) **Lab ID: 60403280009** Collected: 06/16/22 14:40 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**64.0**	mg/kg	21.9	1	06/21/22 03:21	06/22/22 20:09		
TPH-DRO (C10-C28)	**58.8**	mg/kg	10.9	1	06/21/22 03:21	06/22/22 20:09		
Surrogates								
n-Tetracosane (S)	93	%	31-152	1	06/21/22 03:21	06/22/22 20:09	646-31-1	
p-Terphenyl (S)	101	%	46-130	1	06/21/22 03:21	06/22/22 20:09	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	ND	mg/kg	11.6	1	06/23/22 16:37	06/24/22 04:39		
Surrogates								
4-Bromofluorobenzene (S)	97	%	66-130	1	06/23/22 16:37	06/24/22 04:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**11.8**	%	0.50	1		06/20/22 16:50		

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ANALYTICAL RESULTS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Sample: UNIT 31-FL-WSW (3.5) **Lab ID: 60403280010** Collected: 06/16/22 14:45 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-RRO (C28-C36)	**18.6J**	mg/kg	22.7	1	06/21/22 03:21	06/22/22 20:50		
TPH-DRO (C10-C28)	**16.8**	mg/kg	11.4	1	06/21/22 03:21	06/22/22 20:50		
Surrogates								
n-Tetracosane (S)	83	%	31-152	1	06/21/22 03:21	06/22/22 20:50	646-31-1	
p-Terphenyl (S)	92	%	46-130	1	06/21/22 03:21	06/22/22 20:50	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	ND	mg/kg	12.7	1	06/23/22 16:37	06/24/22 04:55		
Surrogates								
4-Bromofluorobenzene (S)	97	%	66-130	1	06/23/22 16:37	06/24/22 04:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**13.0**	%	0.50	1		06/20/22 16:50		

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QUALITY CONTROL DATA

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

QC Batch: 794119
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015B
Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60403280001, 60403280002, 60403280003, 60403280004, 60403280005, 60403280006, 60403280007, 60403280008, 60403280009, 60403280010

METHOD BLANK: 3163648
Matrix: Solid
Associated Lab Samples: 60403280001, 60403280002, 60403280003, 60403280004, 60403280005, 60403280006, 60403280007, 60403280008, 60403280009, 60403280010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	06/24/22 01:01	
4-Bromofluorobenzene (S)	%	99	66-130	06/24/22 01:01	

LABORATORY CONTROL SAMPLE: 3163649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	52.7	105	70-130	
4-Bromofluorobenzene (S)	%			101	66-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163650 3163651

Parameter	Units	60403280007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	1.8J	63	63	67.8	67.9	105	105	70-130	0	25	
4-Bromofluorobenzene (S)	%						101	100	66-130			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

QC Batch: 793164
QC Batch Method: EPA 3546
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60403280001, 60403280002, 60403280003, 60403280004, 60403280005, 60403280006, 60403280007, 60403280008, 60403280009, 60403280010

METHOD BLANK: 3160246
Matrix: Solid
Associated Lab Samples: 60403280001, 60403280002, 60403280003, 60403280004, 60403280005, 60403280006, 60403280007, 60403280008, 60403280009, 60403280010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.9	06/21/22 18:11	
TPH-RRO (C28-C36)	mg/kg	ND	19.8	06/21/22 18:11	
n-Tetracosane (S)	%	73	31-152	06/21/22 18:11	CH
p-Terphenyl (S)	%	81	46-130	06/21/22 18:11	

LABORATORY CONTROL SAMPLE: 3160247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	82.9	63.8	77	74-124	
n-Tetracosane (S)	%			71	31-152	CH
p-Terphenyl (S)	%			88	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3160248 3160249

Parameter	Units	60403231001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	107	82.4	82.7	195	229	107	147	30-130	16	35	M1
n-Tetracosane (S)	%						0	0	31-152			S4
p-Terphenyl (S)	%						0	0	46-130			S4

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

QC Batch: 793311 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60403280001, 60403280002, 60403280003, 60403280004, 60403280005, 60403280006, 60403280007, 60403280008, 60403280009, 60403280010

METHOD BLANK: 3160693 | Matrix: Solid

Associated Lab Samples: 60403280001, 60403280002, 60403280003, 60403280004, 60403280005, 60403280006, 60403280007, 60403280008, 60403280009, 60403280010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/20/22 16:49	

SAMPLE DUPLICATE: 3160694

Parameter	Units	60403280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.1	4.0	4	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHEVRON WILSON CREEK UNIT 31
Pace Project No.: 60403280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60403280001	**UNIT 31 BW (18')**	EPA 3546	793164	EPA 8015B	793548
60403280002	**UNIT 31 SW2 (4')**	EPA 3546	793164	EPA 8015B	793548
60403280003	**UNIT 31 BSW (8')**	EPA 3546	793164	EPA 8015B	793548
60403280004	**UNIT 31 SE2 (4')**	EPA 3546	793164	EPA 8015B	793548
60403280005	**UNIT 31-FL2 (2')**	EPA 3546	793164	EPA 8015B	793548
60403280006	**UNIT 31-FL2 (5')**	EPA 3546	793164	EPA 8015B	793548
60403280007	**UNIT 31-FL-NSW (3.5)**	EPA 3546	793164	EPA 8015B	793548
60403280008	**UNIT 31-FL-SSW (3.5)**	EPA 3546	793164	EPA 8015B	793548
60403280009	**UNIT 31-FL-ESW (3.5)**	EPA 3546	793164	EPA 8015B	793548
60403280010	**UNIT 31-FL-WSW (3.5)**	EPA 3546	793164	EPA 8015B	793548
60403280001	**UNIT 31 BW (18')**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280002	**UNIT 31 SW2 (4')**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280003	**UNIT 31 BSW (8')**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280004	**UNIT 31 SE2 (4')**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280005	**UNIT 31-FL2 (2')**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280006	**UNIT 31-FL2 (5')**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280007	**UNIT 31-FL-NSW (3.5)**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280008	**UNIT 31-FL-SSW (3.5)**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280009	**UNIT 31-FL-ESW (3.5)**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280010	**UNIT 31-FL-WSW (3.5)**	EPA 5035A/5030B	794119	EPA 8015B	794200
60403280001	**UNIT 31 BW (18')**	ASTM D2974	793311		
60403280002	**UNIT 31 SW2 (4')**	ASTM D2974	793311		
60403280003	**UNIT 31 BSW (8')**	ASTM D2974	793311		
60403280004	**UNIT 31 SE2 (4')**	ASTM D2974	793311		
60403280005	**UNIT 31-FL2 (2')**	ASTM D2974	793311		
60403280006	**UNIT 31-FL2 (5')**	ASTM D2974	793311		
60403280007	**UNIT 31-FL-NSW (3.5)**	ASTM D2974	793311		
60403280008	**UNIT 31-FL-SSW (3.5)**	ASTM D2974	793311		
60403280009	**UNIT 31-FL-ESW (3.5)**	ASTM D2974	793311		
60403280010	**UNIT 31-FL-WSW (3.5)**	ASTM D2974	793311		

WO# : 60403280

60403280

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Samp	
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Entrada Consulting

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 5002 0651 8530 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 3.6 **Corr. Factor** -1.0 **Corrected** 2.6

Date and initials of person examining contents: PG 6/20/22

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	3 Day
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: SL	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:**	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☑No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: **Chevron Wilson Creek Unit 31 Reclamation**

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project #

Lab Project #

Collected by (print): **Jessica Dilka**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

60403280

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 VOCs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	Soil TPH Table 915 (GRO/DRO/ORO)	SAR/EC/pH	Table 915 BTEX, TMBs				Remarks	Sample # (lab only)
Unit 31 BW (18')	Grab	SS	18'	6/16/22	1300	1					X					W6724		
Unit 31 SW2 (4')	Grab	SS	4'	6/16/22	1310	1					X							
Unit 31 BSW (8')	Grab	SS	8'	6/16/22	1305	1					X							
Unit 31 SE2 (4')	Grab	SS	4'	6/16/22	1315	1					X							
Unit 31- FL2 (2')	Grab	SS	2'	6/16/22	1145	1					X							
Unit 31- FL2 (5')	Grab	SS	5'	6/16/22	1425	1					X							
Unit 31- FL-NSW (3.5)	Grab	SS	3.5'	6/16/22	1430	1					X							
Unit 31- FL-SSW (3.5)	Grab	SS	3.5'	6/16/22	1435	1					X							
Unit 31- FL-ESW (3.5)	Grab	SS	3.5'	6/16/22	1440	1					X							
Unit 31- FL-WSW (3.5)	Grab	SS	3.5'	6/16/22	1445	1					X							

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
PLEASE RUSH AND REPORT PRELIMS ASAP

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	6/17/22	1800			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C Bottles Received:	If preservation required by Login: Date/Time
	6/17/22	1700			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/18/22 Time: 12:40	Hold: / Condition: NCF / OK

ANALYTICAL REPORT

July 12, 2022

Entrada Consulting Group

Sample Delivery Group:	L1506489
Samples Received:	06/18/2022
Project Number:	
Description:	Chevron Wilson Creek Unit 31 Reclamation
Report To:	Tim Dobransky 330 Grand Avenue Suite C Grand Junction, CO 81501

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

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

TABLE OF CONTENTS

UNIT 31 BW (18') L1506489-01 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 13:00 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883521	1	06/24/22 20:29	06/24/22 20:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 13:41	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885695	1	06/27/22 14:00	06/27/22 16:16	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1886047	1	06/27/22 20:31	06/28/22 13:02	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883527	1	06/23/22 12:40	06/27/22 14:59	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1892698	5	07/10/22 16:06	07/11/22 12:52	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 21:11	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 19:35	AMG	Mt. Juliet, TN

UNIT 31 SW2 (4') L1506489-02 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 13:10 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:32	06/27/22 01:32	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 13:46	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885658	1	06/28/22 12:00	06/28/22 14:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1886047	1	06/27/22 20:31	06/28/22 13:10	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883527	1	06/23/22 12:40	06/27/22 15:07	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1892698	5	07/10/22 16:06	07/11/22 12:19	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 21:30	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 19:55	ADF	Mt. Juliet, TN

UNIT 31 BW2 (8') L1506489-03 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 13:05 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:35	06/27/22 01:35	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 13:51	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885995	1	06/27/22 12:00	06/27/22 14:38	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1886047	1	06/27/22 20:31	06/28/22 13:13	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883527	1	06/23/22 12:40	06/27/22 15:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1892698	5	07/10/22 16:06	07/11/22 12:55	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 21:50	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 20:15	AMG	Mt. Juliet, TN

UNIT 31 SE2 (4') L1506489-04 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 13:15 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:38	06/27/22 01:38	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 14:02	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885995	1	06/27/22 12:00	06/27/22 14:38	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1884346	1	06/27/22 06:13	06/27/22 23:35	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883527	1	06/23/22 12:40	06/27/22 15:12	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1884347	5	06/27/22 06:14	06/27/22 20:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 22:10	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 20:34	AMG	Mt. Juliet, TN

UNIT 31-FL2 (2') L1506489-05 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 11:45 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:41	06/27/22 01:41	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 14:07	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885695	1	06/27/22 14:00	06/27/22 16:16	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1884346	1	06/27/22 06:13	06/27/22 23:38	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883528	1	06/29/22 20:03	07/01/22 18:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1884347	5	06/27/22 06:14	06/27/22 20:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 22:29	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 21:53	AMG	Mt. Juliet, TN

UNIT 31-FL2 (5') L1506489-06 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 14:25 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:44	06/27/22 01:44	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 14:12	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885136	1	06/28/22 08:00	06/28/22 10:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1884346	1	06/27/22 06:13	06/27/22 23:41	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883528	1	06/29/22 20:03	07/01/22 18:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1884347	5	06/27/22 06:14	06/27/22 20:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 22:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885665	1	06/21/22 21:29	06/26/22 14:58	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 22:12	AMG	Mt. Juliet, TN

UNIT 31-FL-NSW (3.5') L1506489-07 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 14:30 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:47	06/27/22 01:47	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 14:17	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885695	1	06/27/22 14:00	06/27/22 16:16	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1884346	1	06/27/22 06:13	06/27/22 23:44	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883528	1	06/29/22 20:03	07/01/22 18:38	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1884347	5	06/27/22 06:14	06/27/22 20:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 23:08	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 22:32	AMG	Mt. Juliet, TN

UNIT 31-FL-SSW (3.5') L1506489-08 Solid

Collected by: Jessica Dilka | Collected date/time: 06/16/22 14:35 | Received date/time: 06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:50	06/27/22 01:50	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 14:22	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885695	1	06/27/22 14:00	06/27/22 16:16	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1884346	1	06/27/22 06:13	06/27/22 23:46	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883528	1	06/29/22 20:03	07/01/22 18:46	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1884347	5	06/27/22 06:14	06/27/22 20:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 23:28	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 22:52	AMG	Mt. Juliet, TN

UNIT 31-FL-ESW (3.5') L1506489-09 Solid

Collected by	Collected date/time	Received date/time
Jessica Dilka	06/16/22 14:40	06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 01:53	06/27/22 01:53	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 14:27	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1885695	1	06/27/22 14:00	06/27/22 16:16	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1884346	1	06/27/22 06:13	06/27/22 23:49	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883528	1	06/29/22 20:03	07/01/22 18:48	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1884347	5	06/27/22 06:14	06/27/22 20:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/24/22 23:48	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886750	1	06/29/22 11:27	06/29/22 23:11	AMG	Mt. Juliet, TN

UNIT 31-FL-WSW (3.5') L1506489-10 Solid

Collected by	Collected date/time	Received date/time
Jessica Dilka	06/16/22 14:45	06/18/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1883524	1	06/27/22 11:23	06/27/22 11:23	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1885729	1	06/26/22 22:00	06/29/22 14:43	ERP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1886501	1	06/29/22 10:00	06/29/22 12:00	GI	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1885609	1	06/26/22 06:49	06/26/22 12:55	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1884346	1	06/27/22 06:13	06/27/22 23:52	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1883528	1	06/29/22 20:03	07/01/22 18:51	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1884347	5	06/27/22 06:14	06/27/22 20:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1885246	1	06/21/22 21:29	06/25/22 00:07	DWR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1886751	1	06/29/22 11:43	06/29/22 23:32	AMG	Mt. Juliet, TN

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

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.768		1	06/24/2022 20:29	WG1883521

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 13:41	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.08	T8	1	06/27/2022 16:16	WG1885695

Sample Narrative:

L1506489-01 WG1885695: 9.08 at 20.9C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	101		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-01 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	30.4		0.500	1	06/28/2022 13:02	WG1886047
Cadmium	ND		0.500	1	06/28/2022 13:02	WG1886047
Copper	8.53		2.00	1	06/28/2022 13:02	WG1886047
Lead	16.6		0.500	1	06/28/2022 13:02	WG1886047
Nickel	ND		2.00	1	06/28/2022 13:02	WG1886047
Selenium	ND		2.00	1	06/28/2022 13:02	WG1886047
Silver	ND		1.00	1	06/28/2022 13:02	WG1886047
Zinc	15.1		5.00	1	06/28/2022 13:02	WG1886047

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/27/2022 14:59	WG1883527

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.56		1.00	5	07/11/2022 12:52	WG1892698

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 21:11	WG1885246
Toluene	ND		0.00500	1	06/24/2022 21:11	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 21:11	WG1885246
Xylenes, Total	ND		0.00650	1	06/24/2022 21:11	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 21:11	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/24/2022 21:11	WG1885246
(S) Toluene-d8	*105*		*75.0-131*		*06/24/2022 21:11*	WG1885246
(S) 4-Bromofluorobenzene	*90.9*		*67.0-138*		*06/24/2022 21:11*	WG1885246
(S) 1,2-Dichloroethane-d4	*95.3*		*70.0-130*		*06/24/2022 21:11*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Chrysene	0.0123		0.00600	1	06/29/2022 19:35	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Fluoranthene	0.0181		0.00600	1	06/29/2022 19:35	WG1886750
Fluorene	ND		0.00600	1	06/29/2022 19:35	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 19:35	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 19:35	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 19:35	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 19:35	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 19:35	WG1886750
(S) p-Terphenyl-d14	*68.0*		*23.0-120*		*06/29/2022 19:35*	WG1886750
(S) Nitrobenzene-d5	*79.3*		*14.0-149*		*06/29/2022 19:35*	WG1886750
(S) 2-Fluorobiphenyl	*73.1*		*34.0-125*		*06/29/2022 19:35*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.303		1	06/27/2022 01:32	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 13:46	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.07	T8	1	06/28/2022 14:30	WG1885658

Sample Narrative:

L1506489-02 WG1885658: 8.07 at 20.9C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	347		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-02 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	32.4		0.500	1	06/28/2022 13:10	WG1886047
Cadmium	ND		0.500	1	06/28/2022 13:10	WG1886047
Copper	11.0		2.00	1	06/28/2022 13:10	WG1886047
Lead	13.8		0.500	1	06/28/2022 13:10	WG1886047
Nickel	7.96		2.00	1	06/28/2022 13:10	WG1886047
Selenium	ND		2.00	1	06/28/2022 13:10	WG1886047
Silver	ND		1.00	1	06/28/2022 13:10	WG1886047
Zinc	37.1		5.00	1	06/28/2022 13:10	WG1886047

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/27/2022 15:07	WG1883527

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.00		1.00	5	07/11/2022 12:19	WG1892698

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 21:30	WG1885246
Toluene	ND		0.00500	1	06/24/2022 21:30	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 21:30	WG1885246
Xylenes, Total	ND		0.00650	1	06/24/2022 21:30	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 21:30	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/24/2022 21:30	WG1885246
(S) Toluene-d8	*112*		*75.0-131*		*06/24/2022 21:30*	WG1885246
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*06/24/2022 21:30*	WG1885246
(S) 1,2-Dichloroethane-d4	*93.1*		*70.0-130*		*06/24/2022 21:30*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0201		0.00600	1	06/29/2022 19:55	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 19:55	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 19:55	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 19:55	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 19:55	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 19:55	WG1886750
Chrysene	0.00791		0.00600	1	06/29/2022 19:55	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 19:55	WG1886750
Fluoranthene	0.00823		0.00600	1	06/29/2022 19:55	WG1886750
Fluorene	0.0435		0.00600	1	06/29/2022 19:55	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 19:55	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 19:55	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 19:55	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 19:55	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 19:55	WG1886750
(S) p-Terphenyl-d14	*67.3*		*23.0-120*		*06/29/2022 19:55*	WG1886750
(S) Nitrobenzene-d5	*56.3*		*14.0-149*		*06/29/2022 19:55*	WG1886750
(S) 2-Fluorobiphenyl	*70.2*		*34.0-125*		*06/29/2022 19:55*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.233		1	06/27/2022 01:35	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 13:51	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.46	T8	1	06/27/2022 14:38	WG1885995

Sample Narrative:

L1506489-03 WG1885995: 7.46 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2420		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-03 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	25.9		0.500	1	06/28/2022 13:13	WG1886047
Cadmium	ND		0.500	1	06/28/2022 13:13	WG1886047
Copper	6.29		2.00	1	06/28/2022 13:13	WG1886047
Lead	11.4		0.500	1	06/28/2022 13:13	WG1886047
Nickel	10.3		2.00	1	06/28/2022 13:13	WG1886047
Selenium	ND		2.00	1	06/28/2022 13:13	WG1886047
Silver	ND		1.00	1	06/28/2022 13:13	WG1886047
Zinc	37.7		5.00	1	06/28/2022 13:13	WG1886047

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/27/2022 15:10	WG1883527

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.02		1.00	5	07/11/2022 12:55	WG1892698

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 21:50	WG1885246
Toluene	ND		0.00500	1	06/24/2022 21:50	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 21:50	WG1885246
Xylenes, Total	ND		0.00650	1	06/24/2022 21:50	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 21:50	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/24/2022 21:50	WG1885246
(S) Toluene-d8	*107*		*75.0-131*		*06/24/2022 21:50*	WG1885246
(S) 4-Bromofluorobenzene	*91.6*		*67.0-138*		*06/24/2022 21:50*	WG1885246
(S) 1,2-Dichloroethane-d4	*97.7*		*70.0-130*		*06/24/2022 21:50*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Chrysene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Fluoranthene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Fluorene	ND		0.00600	1	06/29/2022 20:15	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 20:15	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 20:15	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 20:15	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 20:15	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 20:15	WG1886750
(S) p-Terphenyl-d14	*73.6*		*23.0-120*		*06/29/2022 20:15*	WG1886750
(S) Nitrobenzene-d5	*93.1*		*14.0-149*		*06/29/2022 20:15*	WG1886750
(S) 2-Fluorobiphenyl	*74.1*		*34.0-125*		*06/29/2022 20:15*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.640		1	06/27/2022 01:38	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 14:02	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16	T8	1	06/27/2022 14:38	WG1885995

Sample Narrative:

L1506489-04 WG1885995: 8.16 at 21.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	197		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-04 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	43.9		0.500	1	06/27/2022 23:35	WG1884346
Cadmium	ND		0.500	1	06/27/2022 23:35	WG1884346
Copper	13.2		2.00	1	06/27/2022 23:35	WG1884346
Lead	16.9		0.500	1	06/27/2022 23:35	WG1884346
Nickel	8.86		2.00	1	06/27/2022 23:35	WG1884346
Selenium	ND		2.00	1	06/27/2022 23:35	WG1884346
Silver	ND		1.00	1	06/27/2022 23:35	WG1884346
Zinc	37.0		5.00	1	06/27/2022 23:35	WG1884346

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/27/2022 15:12	WG1883527

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.77		1.00	5	06/27/2022 20:17	WG1884347

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 22:10	WG1885246
Toluene	ND		0.00500	1	06/24/2022 22:10	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 22:10	WG1885246
Xylenes, Total	ND		0.00650	1	06/24/2022 22:10	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 22:10	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/24/2022 22:10	WG1885246
(S) Toluene-d8	*107*		*75.0-131*		*06/24/2022 22:10*	WG1885246
(S) 4-Bromofluorobenzene	*90.6*		*67.0-138*		*06/24/2022 22:10*	WG1885246
(S) 1,2-Dichloroethane-d4	*92.1*		*70.0-130*		*06/24/2022 22:10*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Chrysene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Fluoranthene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Fluorene	ND		0.00600	1	06/29/2022 20:34	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 20:34	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 20:34	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 20:34	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 20:34	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 20:34	WG1886750
(S) p-Terphenyl-d14	*64.4*		*23.0-120*		*06/29/2022 20:34*	WG1886750
(S) Nitrobenzene-d5	*72.8*		*14.0-149*		*06/29/2022 20:34*	WG1886750
(S) 2-Fluorobiphenyl	*65.7*		*34.0-125*		*06/29/2022 20:34*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.50		1	06/27/2022 01:41	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 14:07	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.14	T8	1	06/27/2022 16:16	WG1885695

Sample Narrative:

L1506489-05 WG1885695: 9.14 at 21.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	404		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-05 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	55.4		0.500	1	06/27/2022 23:38	WG1884346
Cadmium	ND		0.500	1	06/27/2022 23:38	WG1884346
Copper	10.8		2.00	1	06/27/2022 23:38	WG1884346
Lead	13.6		0.500	1	06/27/2022 23:38	WG1884346
Nickel	9.89		2.00	1	06/27/2022 23:38	WG1884346
Selenium	ND		2.00	1	06/27/2022 23:38	WG1884346
Silver	ND		1.00	1	06/27/2022 23:38	WG1884346
Zinc	42.0		5.00	1	06/27/2022 23:38	WG1884346

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.729		0.200	1	07/01/2022 18:32	WG1883528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.75		1.00	5	06/27/2022 20:21	WG1884347

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 22:29	WG1885246
Toluene	0.00865		0.00500	1	06/24/2022 22:29	WG1885246
Ethylbenzene	0.00555		0.00250	1	06/24/2022 22:29	WG1885246
Xylenes, Total	1.15		0.00650	1	06/24/2022 22:29	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	0.00943		0.00500	1	06/24/2022 22:29	WG1885246
1,3,5-Trimethylbenzene	1.54		0.00500	1	06/24/2022 22:29	WG1885246
(S) Toluene-d8	*111*		*75.0-131*		*06/24/2022 22:29*	WG1885246
(S) 4-Bromofluorobenzene	*210*	J1	*67.0-138*		*06/24/2022 22:29*	WG1885246
(S) 1,2-Dichloroethane-d4	*98.4*		*70.0-130*		*06/24/2022 22:29*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0150		0.00600	1	06/29/2022 21:53	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 21:53	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 21:53	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 21:53	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 21:53	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 21:53	WG1886750
Chrysene	ND		0.00600	1	06/29/2022 21:53	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 21:53	WG1886750
Fluoranthene	0.00678		0.00600	1	06/29/2022 21:53	WG1886750
Fluorene	0.0501		0.00600	1	06/29/2022 21:53	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 21:53	WG1886750
1-Methylnaphthalene	0.581		0.0200	1	06/29/2022 21:53	WG1886750
2-Methylnaphthalene	0.454		0.0200	1	06/29/2022 21:53	WG1886750
Naphthalene	0.0866		0.0200	1	06/29/2022 21:53	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 21:53	WG1886750
(S) p-Terphenyl-d14	*52.7*		*23.0-120*		*06/29/2022 21:53*	WG1886750
(S) Nitrobenzene-d5	*170*	J1	*14.0-149*		*06/29/2022 21:53*	WG1886750
(S) 2-Fluorobiphenyl	*55.3*		*34.0-125*		*06/29/2022 21:53*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.321		1	06/27/2022 01:44	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 14:12	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	T8	1	06/28/2022 10:00	WG1885136

Sample Narrative:

L1506489-06 WG1885136: 7.94 at 20.8C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	188		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-06 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	73.8		0.500	1	06/27/2022 23:41	WG1884346
Cadmium	ND		0.500	1	06/27/2022 23:41	WG1884346
Copper	13.7		2.00	1	06/27/2022 23:41	WG1884346
Lead	17.2		0.500	1	06/27/2022 23:41	WG1884346
Nickel	14.0		2.00	1	06/27/2022 23:41	WG1884346
Selenium	ND		2.00	1	06/27/2022 23:41	WG1884346
Silver	ND		1.00	1	06/27/2022 23:41	WG1884346
Zinc	51.5		5.00	1	06/27/2022 23:41	WG1884346

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	07/01/2022 18:35	WG1883528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.37		1.00	5	06/27/2022 20:24	WG1884347

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 22:49	WG1885246
Toluene	ND		0.00500	1	06/24/2022 22:49	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 22:49	WG1885246
Xylenes, Total	ND		0.00650	1	06/26/2022 14:58	WG1885665

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 22:49	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/26/2022 14:58	WG1885665
(S) Toluene-d8	*110*		*75.0-131*		*06/24/2022 22:49*	WG1885246
(S) Toluene-d8	*101*		*75.0-131*		*06/26/2022 14:58*	WG1885665
(S) 4-Bromofluorobenzene	*96.3*		*67.0-138*		*06/24/2022 22:49*	WG1885246
(S) 4-Bromofluorobenzene	*83.7*		*67.0-138*		*06/26/2022 14:58*	WG1885665
(S) 1,2-Dichloroethane-d4	*93.1*		*70.0-130*		*06/24/2022 22:49*	WG1885246
(S) 1,2-Dichloroethane-d4	*116*		*70.0-130*		*06/26/2022 14:58*	WG1885665

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Chrysene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Fluoranthene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Fluorene	ND		0.00600	1	06/29/2022 22:12	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 22:12	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 22:12	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 22:12	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 22:12	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 22:12	WG1886750
(S) p-Terphenyl-d14	*66.3*		*23.0-120*		*06/29/2022 22:12*	WG1886750
(S) Nitrobenzene-d5	*77.5*		*14.0-149*		*06/29/2022 22:12*	WG1886750
(S) 2-Fluorobiphenyl	*69.6*		*34.0-125*		*06/29/2022 22:12*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.237		1	06/27/2022 01:47	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 14:17	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.80	T8	1	06/27/2022 16:16	WG1885695

Sample Narrative:

L1506489-07 WG1885695: 8.8 at 21.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	149		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-07 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	46.2		0.500	1	06/27/2022 23:44	WG1884346
Cadmium	ND		0.500	1	06/27/2022 23:44	WG1884346
Copper	12.6		2.00	1	06/27/2022 23:44	WG1884346
Lead	16.2		0.500	1	06/27/2022 23:44	WG1884346
Nickel	10.3		2.00	1	06/27/2022 23:44	WG1884346
Selenium	ND		2.00	1	06/27/2022 23:44	WG1884346
Silver	ND		1.00	1	06/27/2022 23:44	WG1884346
Zinc	50.8		5.00	1	06/27/2022 23:44	WG1884346

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	07/01/2022 18:38	WG1883528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.84		1.00	5	06/27/2022 20:27	WG1884347

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 23:08	WG1885246
Toluene	ND		0.00500	1	06/24/2022 23:08	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 23:08	WG1885246
Xylenes, Total	ND		0.00650	1	06/24/2022 23:08	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 23:08	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/24/2022 23:08	WG1885246
(S) Toluene-d8	*108*		*75.0-131*		*06/24/2022 23:08*	WG1885246
(S) 4-Bromofluorobenzene	*93.9*		*67.0-138*		*06/24/2022 23:08*	WG1885246
(S) 1,2-Dichloroethane-d4	*97.4*		*70.0-130*		*06/24/2022 23:08*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Chrysene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Fluoranthene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Fluorene	ND		0.00600	1	06/29/2022 22:32	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 22:32	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 22:32	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 22:32	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 22:32	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 22:32	WG1886750
(S) p-Terphenyl-d14	*52.2*		*23.0-120*		*06/29/2022 22:32*	WG1886750
(S) Nitrobenzene-d5	*68.9*		*14.0-149*		*06/29/2022 22:32*	WG1886750
(S) 2-Fluorobiphenyl	*59.1*		*34.0-125*		*06/29/2022 22:32*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.149		1	06/27/2022 01:50	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 14:22	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.49	T8	1	06/27/2022 16:16	WG1885695

Sample Narrative:

L1506489-08 WG1885695: 8.49 at 21.8C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	56.2		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-08 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	36.6		0.500	1	06/27/2022 23:46	WG1884346
Cadmium	ND		0.500	1	06/27/2022 23:46	WG1884346
Copper	12.5		2.00	1	06/27/2022 23:46	WG1884346
Lead	15.1		0.500	1	06/27/2022 23:46	WG1884346
Nickel	8.92		2.00	1	06/27/2022 23:46	WG1884346
Selenium	ND		2.00	1	06/27/2022 23:46	WG1884346
Silver	ND		1.00	1	06/27/2022 23:46	WG1884346
Zinc	39.8		5.00	1	06/27/2022 23:46	WG1884346

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	07/01/2022 18:46	WG1883528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.11		1.00	5	06/27/2022 20:31	WG1884347

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 23:28	WG1885246
Toluene	ND		0.00500	1	06/24/2022 23:28	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 23:28	WG1885246
Xylenes, Total	ND		0.00650	1	06/24/2022 23:28	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 23:28	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/24/2022 23:28	WG1885246
(S) Toluene-d8	*109*		*75.0-131*		*06/24/2022 23:28*	WG1885246
(S) 4-Bromofluorobenzene	*91.3*		*67.0-138*		*06/24/2022 23:28*	WG1885246
(S) 1,2-Dichloroethane-d4	*92.1*		*70.0-130*		*06/24/2022 23:28*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Chrysene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Fluoranthene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Fluorene	ND		0.00600	1	06/29/2022 22:52	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 22:52	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 22:52	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 22:52	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 22:52	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 22:52	WG1886750
(S) p-Terphenyl-d14	*44.0*		*23.0-120*		*06/29/2022 22:52*	WG1886750
(S) Nitrobenzene-d5	*75.6*		*14.0-149*		*06/29/2022 22:52*	WG1886750
(S) 2-Fluorobiphenyl	*53.1*		*34.0-125*		*06/29/2022 22:52*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0738		1	06/27/2022 01:53	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 14:27	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.75	T8	1	06/27/2022 16:16	WG1885695

Sample Narrative:

L1506489-09 WG1885695: 7.75 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	85.9		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-09 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	53.3		0.500	1	06/27/2022 23:49	WG1884346
Cadmium	ND		0.500	1	06/27/2022 23:49	WG1884346
Copper	19.4		2.00	1	06/27/2022 23:49	WG1884346
Lead	19.1		0.500	1	06/27/2022 23:49	WG1884346
Nickel	13.9		2.00	1	06/27/2022 23:49	WG1884346
Selenium	ND		2.00	1	06/27/2022 23:49	WG1884346
Silver	ND		1.00	1	06/27/2022 23:49	WG1884346
Zinc	65.0		5.00	1	06/27/2022 23:49	WG1884346

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	07/01/2022 18:48	WG1883528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.26		1.00	5	06/27/2022 20:34	WG1884347

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/24/2022 23:48	WG1885246
Toluene	ND		0.00500	1	06/24/2022 23:48	WG1885246
Ethylbenzene	ND		0.00250	1	06/24/2022 23:48	WG1885246
Xylenes, Total	ND		0.00650	1	06/24/2022 23:48	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/24/2022 23:48	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/24/2022 23:48	WG1885246
(S) Toluene-d8	*106*		*75.0-131*		*06/24/2022 23:48*	WG1885246
(S) 4-Bromofluorobenzene	*93.4*		*67.0-138*		*06/24/2022 23:48*	WG1885246
(S) 1,2-Dichloroethane-d4	*94.3*		*70.0-130*		*06/24/2022 23:48*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Anthracene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Chrysene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Fluoranthene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Fluorene	ND		0.00600	1	06/29/2022 23:11	WG1886750
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 23:11	WG1886750
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 23:11	WG1886750
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 23:11	WG1886750
Naphthalene	ND		0.0200	1	06/29/2022 23:11	WG1886750
Pyrene	ND		0.00600	1	06/29/2022 23:11	WG1886750
(S) p-Terphenyl-d14	*60.9*		*23.0-120*		*06/29/2022 23:11*	WG1886750
(S) Nitrobenzene-d5	*76.6*		*14.0-149*		*06/29/2022 23:11*	WG1886750
(S) 2-Fluorobiphenyl	*65.5*		*34.0-125*		*06/29/2022 23:11*	WG1886750

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.32		1	06/27/2022 11:23	WG1883524

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/29/2022 14:43	WG1885729

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.46	T8	1	06/29/2022 12:00	WG1886501

Sample Narrative:

L1506489-10 WG1886501: 8.46 at 26.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	306		10.0	1	06/26/2022 12:55	WG1885609

Sample Narrative:

L1506489-10 WG1885609: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	53.3		0.500	1	06/27/2022 23:52	WG1884346
Cadmium	ND		0.500	1	06/27/2022 23:52	WG1884346
Copper	11.5		2.00	1	06/27/2022 23:52	WG1884346
Lead	13.8		0.500	1	06/27/2022 23:52	WG1884346
Nickel	8.62		2.00	1	06/27/2022 23:52	WG1884346
Selenium	ND		2.00	1	06/27/2022 23:52	WG1884346
Silver	ND		1.00	1	06/27/2022 23:52	WG1884346
Zinc	41.0		5.00	1	06/27/2022 23:52	WG1884346

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	07/01/2022 18:51	WG1883528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.70		1.00	5	06/27/2022 20:37	WG1884347

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/25/2022 00:07	WG1885246
Toluene	ND		0.00500	1	06/25/2022 00:07	WG1885246
Ethylbenzene	ND		0.00250	1	06/25/2022 00:07	WG1885246
Xylenes, Total	ND		0.00650	1	06/25/2022 00:07	WG1885246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	ND		0.00500	1	06/25/2022 00:07	WG1885246
1,3,5-Trimethylbenzene	ND		0.00500	1	06/25/2022 00:07	WG1885246
(S) Toluene-d8	*110*		*75.0-131*		*06/25/2022 00:07*	WG1885246
(S) 4-Bromofluorobenzene	*91.8*		*67.0-138*		*06/25/2022 00:07*	WG1885246
(S) 1,2-Dichloroethane-d4	*93.0*		*70.0-130*		*06/25/2022 00:07*	WG1885246

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Anthracene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Benzo(a)anthracene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Benzo(b)fluoranthene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Benzo(k)fluoranthene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Benzo(a)pyrene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Chrysene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Dibenz(a,h)anthracene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Fluoranthene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Fluorene	ND		0.00600	1	06/29/2022 23:32	WG1886751
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/29/2022 23:32	WG1886751
1-Methylnaphthalene	ND		0.0200	1	06/29/2022 23:32	WG1886751
2-Methylnaphthalene	ND		0.0200	1	06/29/2022 23:32	WG1886751
Naphthalene	ND		0.0200	1	06/29/2022 23:32	WG1886751
Pyrene	ND		0.00600	1	06/29/2022 23:32	WG1886751
(S) p-Terphenyl-d14	*55.5*		*23.0-120*		*06/29/2022 23:32*	WG1886751
(S) Nitrobenzene-d5	*57.8*		*14.0-149*		*06/29/2022 23:32*	WG1886751
(S) 2-Fluorobiphenyl	*54.7*		*34.0-125*		*06/29/2022 23:32*	WG1886751

QUALITY CONTROL SUMMARY

L1506489-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3810117-1 06/29/22 12:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1506489-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1506489-03 06/29/22 13:51 • (DUP) R3810117-7 06/29/22 13:56

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	ND	ND	1	7.20		20

L1506546-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1506546-04 06/29/22 15:04 • (DUP) R3810117-8 06/29/22 15:09

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

Laboratory Control Sample (LCS)

(LCS) R3810117-2 06/29/22 12:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.96	99.6	80.0-120	

L1506482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506482-01 06/29/22 12:46 • (MS) R3810117-3 06/29/22 12:54 • (MSD) R3810117-4 06/29/22 12:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	ND	19.1	15.7	94.3	77.4	1	75.0-125			19.3	20

L1506482-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1506482-01 06/29/22 12:46 • (MS) R3810117-6 06/29/22 13:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	665	ND	570	85.8	50	75.0-125	

L1507206-38 Original Sample (OS) • Duplicate (DUP)

(OS) L1507206-38 06/28/22 10:00 • (DUP) R3808215-2 06/28/22 10:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	3.91	3.91	1	0.000		1

Sample Narrative:
OS: 3.91 at 20.9C
DUP: 3.91 at 20.9C

L1507651-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1507651-02 06/28/22 10:00 • (DUP) R3808215-3 06/28/22 10:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	9.13	9.13	1	0.000		1

Sample Narrative:
OS: 9.13 at 20.6C
DUP: 9.13 at 20.7C

Laboratory Control Sample (LCS)

(LCS) R3808215-1 06/28/22 10:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:
LCS: 9.9 at 21C

Laboratory Control Sample (LCS)

(LCS) R3808420-1 06/28/22 14:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 20.3C

L1506546-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1506546-06 06/27/22 16:16 • (DUP) R3807997-2 06/27/22 16:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	9.80	9.81	1	0.102		1

Sample Narrative:

OS: 9.8 at 21.4C

DUP: 9.81 at 21.4C

L1506546-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1506546-17 06/27/22 16:16 • (DUP) R3807997-3 06/27/22 16:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	8.53	8.52	1	0.117		1

Sample Narrative:

OS: 8.53 at 21.1C

DUP: 8.52 at 21.1C

Laboratory Control Sample (LCS)

(LCS) R3807997-1 06/27/22 16:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 20.8C

L1506489-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1506489-04 06/27/22 14:38 • (DUP) R3807933-2 06/27/22 14:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.16	8.15	1	0.123		1

Sample Narrative:

OS: 8.16 at 21.3C

DUP: 8.15 at 21.2C

L1508615-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1508615-02 06/27/22 14:38 • (DUP) R3807933-3 06/27/22 14:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.97	7.90	1	0.882		1

Sample Narrative:

OS: 7.97 at 21.1C

DUP: 7.9 at 20.3C

Laboratory Control Sample (LCS)

(LCS) R3807933-1 06/27/22 14:38

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.94	99.4	99.0-101	

Sample Narrative:

LCS: 9.94 at 21.3C

L1506946-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1506946-01 06/29/22 12:00 • (DUP) R3808901-2 06/29/22 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.79	6.81	1	0.294		1

Sample Narrative:

OS: 6.79 at 23.5C

DUP: 6.81 at 24.2C

L1507298-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1507298-02 06/29/22 12:00 • (DUP) R3808901-3 06/29/22 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.18	6.20	1	0.323		1

Sample Narrative:

OS: 6.18 at 22.5C

DUP: 6.2 at 22.6C

Laboratory Control Sample (LCS)

(LCS) R3808901-1 06/29/22 12:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 21.5C

QUALITY CONTROL SUMMARY

L1506489-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3807596-1 06/26/22 12:55

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1506482-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1506482-02 06/26/22 12:55 • (DUP) R3807596-3 06/26/22 12:55

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	388	420	1	7.92		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1506489-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1506489-10 06/26/22 12:55 • (DUP) R3807596-4 06/26/22 12:55

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	306	294	1	4.10		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3807596-2 06/26/22 12:55

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	279	104	85.0-115	

Sample Narrative:

LCS: at 25C

QUALITY CONTROL SUMMARY

L1506489-04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3808121-1 06/27/22 23:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3808121-2 06/27/22 23:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	96.1	96.1	80.0-120	
Cadmium	100	92.9	92.9	80.0-120	
Copper	100	94.2	94.2	80.0-120	
Lead	100	94.1	94.1	80.0-120	
Nickel	100	94.6	94.6	80.0-120	
Selenium	100	95.7	95.7	80.0-120	
Silver	20.0	17.4	87.2	80.0-120	
Zinc	100	92.4	92.4	80.0-120	

L1506365-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506365-02 06/27/22 23:06 • (MS) R3808121-5 06/27/22 23:15 • (MSD) R3808121-6 06/27/22 23:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	581	606	724	25.4	143	1	75.0-125	V	V	17.7	20
Cadmium	100	ND	98.7	100	98.3	99.8	1	75.0-125			1.55	20
Copper	100	14.2	118	120	103	105	1	75.0-125			1.70	20
Lead	100	12.2	113	114	101	102	1	75.0-125			0.777	20
Nickel	100	13.1	115	117	102	104	1	75.0-125			1.70	20
Selenium	100	2.10	102	104	99.9	102	1	75.0-125			2.13	20
Silver	20.0	ND	18.9	19.2	94.5	96.1	1	75.0-125			1.66	20
Zinc	100	49.7	141	143	91.0	93.0	1	75.0-125			1.40	20

QUALITY CONTROL SUMMARY

L1506489-01,02,03

Method Blank (MB)

(MB) R3808487-1 06/28/22 12:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3808487-2 06/28/22 12:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	101	101	80.0-120	
Cadmium	100	98.7	98.7	80.0-120	
Copper	100	101	101	80.0-120	
Lead	100	98.4	98.4	80.0-120	
Nickel	100	99.4	99.4	80.0-120	
Selenium	100	97.1	97.1	80.0-120	
Silver	20.0	19.2	96.1	80.0-120	
Zinc	100	95.8	95.8	80.0-120	

L1506482-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506482-02 06/28/22 12:42 • (MS) R3808487-5 06/28/22 12:51 • (MSD) R3808487-6 06/28/22 12:53

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	82.2	195	162	113	79.4	1	75.0-125			19.0	20
Cadmium	100	ND	89.4	85.6	89.2	85.4	1	75.0-125			4.35	20
Copper	100	10.2	105	100	95.2	90.0	1	75.0-125			5.07	20
Lead	100	22.1	107	109	84.7	87.2	1	75.0-125			2.28	20
Nickel	100	12.7	109	99.9	96.3	87.2	1	75.0-125			8.71	20
Selenium	100	ND	87.6	82.9	87.6	82.9	1	75.0-125			5.54	20
Silver	20.0	ND	17.4	16.5	86.8	82.7	1	75.0-125			4.75	20
Zinc	100	62.3	153	145	90.9	82.5	1	75.0-125			5.68	20

QUALITY CONTROL SUMMARY

L1506489-01,02,03,04

Method Blank (MB)

(MB) R3808075-1 06/27/22 14:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3808075-2 06/27/22 14:02 • (LCSD) R3808075-3 06/27/22 14:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.03	1.05	103	105	80.0-120			1.90	20

Method Blank (MB)

(MB) R3810319-1 07/01/22 17:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3810319-2 07/01/22 17:42 • (LCSD) R3810319-3 07/01/22 17:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.12	1.10	112	110	80.0-120			1.69	20

QUALITY CONTROL SUMMARY

L1506489-04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3808087-1 06/27/22 19:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3808087-2 06/27/22 19:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	90.2	90.2	80.0-120	

L1506365-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506365-02 06/27/22 19:42 • (MS) R3808087-5 06/27/22 19:52 • (MSD) R3808087-6 06/27/22 19:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	4.51	94.3	96.1	89.8	91.6	5	75.0-125			1.81	20

QUALITY CONTROL SUMMARY

L1506489-01,02,03

Method Blank (MB)

(MB) R3813206-1 07/11/22 12:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3813206-2 07/11/22 12:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	91.0	91.0	80.0-120	

L1506489-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506489-02 07/11/22 12:19 • (MS) R3813206-5 07/11/22 12:28 • (MSD) R3813206-6 07/11/22 12:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	2.00	90.6	91.3	88.6	89.3	5	75.0-125			0.795	20

Method Blank (MB)

(MB) R3807605-2 06/24/22 17:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3807605-1 06/24/22 16:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.109	87.2	70.0-123	
Toluene	0.125	0.118	94.4	75.0-121	
Ethylbenzene	0.125	0.122	97.6	74.0-126	
Xylenes, Total	0.375	0.362	96.5	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.119	95.2	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.117	93.6	73.0-127	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*91.8*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*96.0*	*70.0-130*	

Method Blank (MB)

(MB) R3807919-3 06/26/22 12:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Xylenes, Total	U		0.000880	0.00650
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*83.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3807919-1 06/26/22 11:33 • (LCSD) R3807919-2 06/26/22 11:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.375	0.283	0.291	75.5	77.6	72.0-127			2.79	20
1,3,5-Trimethylbenzene	0.125	0.117	0.130	93.6	104	73.0-127			10.5	20
(S) Toluene-d8				*103*	*96.8*	*75.0-131*				
(S) 4-Bromofluorobenzene				*83.2*	*84.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*114*	*116*	*70.0-130*				

Method Blank (MB)

(MB) R3809433-2 06/29/22 17:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00209	0.00600
Anthracene	U		0.00230	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	*72.9*			*23.0-120*
(S) Nitrobenzene-d5	*77.9*			*14.0-149*
(S) 2-Fluorobiphenyl	*75.3*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R3809433-1 06/29/22 16:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0643	80.4	50.0-120	
Anthracene	0.0800	0.0632	79.0	50.0-126	
Benzo(a)anthracene	0.0800	0.0652	81.5	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0619	77.4	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0618	77.3	49.0-125	
Benzo(a)pyrene	0.0800	0.0541	67.6	42.0-120	
Chrysene	0.0800	0.0646	80.7	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0599	74.9	47.0-125	
Fluoranthene	0.0800	0.0673	84.1	49.0-129	
Fluorene	0.0800	0.0671	83.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0626	78.3	46.0-125	
1-Methylnaphthalene	0.0800	0.0616	77.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0641	80.1	50.0-120	
Naphthalene	0.0800	0.0600	75.0	50.0-120	
Pyrene	0.0800	0.0623	77.9	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R3809433-1 06/29/22 16:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*75.8*	*23.0-120*	
(S) Nitrobenzene-d5			*87.4*	*14.0-149*	
(S) 2-Fluorobiphenyl			*81.1*	*34.0-125*	

L1506287-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506287-11 06/29/22 23:31 • (MS) R3809433-3 06/29/22 23:51 • (MSD) R3809433-4 06/30/22 00:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0780	ND	0.0559	0.0865	71.7	112	1	14.0-127		J3	43.0	27
Anthracene	0.0780	ND	0.0572	0.164	73.3	212	1	10.0-145		J3 J5	96.6	30
Benzo(a)anthracene	0.0780	0.00815	0.0637	0.148	71.2	181	1	10.0-139		J3 J5	79.6	30
Benzo(b)fluoranthene	0.0780	0.0123	0.0580	0.100	58.6	114	1	10.0-140		J3	53.2	36
Benzo(k)fluoranthene	0.0780	ND	0.0515	0.0731	61.1	89.8	1	10.0-137		J3	34.7	31
Benzo(a)pyrene	0.0780	0.0106	0.0638	0.0975	68.2	113	1	10.0-141		J3	41.8	31
Chrysene	0.0780	0.00959	0.0629	0.136	68.3	164	1	10.0-145		J3 J5	73.5	30
Dibenz(a,h)anthracene	0.0780	ND	0.0452	0.0487	57.9	63.1	1	10.0-132			7.45	31
Fluoranthene	0.0780	0.0154	0.0703	0.526	70.4	661	1	10.0-153		J3 J5	153	33
Fluorene	0.0780	ND	0.0595	0.123	76.3	159	1	11.0-130		J3 J5	69.6	29
Indeno(1,2,3-cd)pyrene	0.0780	0.00911	0.0543	0.0693	57.9	78.0	1	10.0-137			24.3	32
1-Methylnaphthalene	0.0780	ND	0.0555	0.0568	71.2	73.6	1	10.0-142			2.32	28
2-Methylnaphthalene	0.0780	ND	0.0590	0.0618	75.6	80.1	1	10.0-137			4.64	28
Naphthalene	0.0780	ND	0.0558	0.0577	71.5	74.7	1	10.0-135			3.35	27
Pyrene	0.0780	0.0147	0.0637	0.344	62.8	427	1	10.0-148		J3 J5	138	35
(S) p-Terphenyl-d14					*65.7*	*68.3*		*23.0-120*				
(S) Nitrobenzene-d5					*79.7*	*83.9*		*14.0-149*				
(S) 2-Fluorobiphenyl					*69.5*	*72.0*		*34.0-125*				

Method Blank (MB)

(MB) R3809257-2 06/29/22 22:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00209	0.00600
Anthracene	U		0.00230	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	*91.6*			*23.0-120*
(S) Nitrobenzene-d5	*69.9*			*14.0-149*
(S) 2-Fluorobiphenyl	*74.3*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R3809257-1 06/29/22 22:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0558	69.8	50.0-120	
Anthracene	0.0800	0.0528	66.0	50.0-126	
Benzo(a)anthracene	0.0800	0.0547	68.4	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0640	80.0	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0608	76.0	49.0-125	
Benzo(a)pyrene	0.0800	0.0448	56.0	42.0-120	
Chrysene	0.0800	0.0586	73.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0625	78.1	47.0-125	
Fluoranthene	0.0800	0.0565	70.6	49.0-129	
Fluorene	0.0800	0.0577	72.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0595	74.4	46.0-125	
1-Methylnaphthalene	0.0800	0.0563	70.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0539	67.4	50.0-120	
Naphthalene	0.0800	0.0571	71.4	50.0-120	
Pyrene	0.0800	0.0592	74.0	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R3809257-1 06/29/22 22:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*84.5*	*23.0-120*	
(S) Nitrobenzene-d5			*71.7*	*14.0-149*	
(S) 2-Fluorobiphenyl			*71.5*	*34.0-125*	

L1506546-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506546-19 06/30/22 04:35 • (MS) R3809257-3 06/30/22 04:52 • (MSD) R3809257-4 06/30/22 05:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0788	0.280	0.396	0.418	147	173	10	14.0-127	J5	J5	5.41	27
Anthracene	0.0788	ND	0.117	0.124	86.2	94.1	10	10.0-145			5.81	30
Benzo(a)anthracene	0.0788	ND	0.100	0.106	92.4	99.0	10	10.0-139			5.83	30
Benzo(b)fluoranthene	0.0788	ND	0.0661	0.0677	83.9	85.1	10	10.0-140			2.39	36
Benzo(k)fluoranthene	0.0788	ND	ND	ND	58.2	53.6	10	10.0-137			7.22	31
Benzo(a)pyrene	0.0788	ND	0.0937	0.0895	75.8	69.7	10	10.0-141			4.59	31
Chrysene	0.0788	ND	0.0864	0.0879	110	110	10	10.0-145			1.72	30
Dibenz(a,h)anthracene	0.0788	ND	0.0942	0.0776	120	97.5	10	10.0-132			19.3	31
Fluoranthene	0.0788	ND	0.106	0.112	84.1	90.8	10	10.0-153			5.50	33
Fluorene	0.0788	0.139	0.227	0.238	112	124	10	11.0-130			4.73	29
Indeno(1,2,3-cd)pyrene	0.0788	ND	ND	ND	69.4	71.0	10	10.0-137			3.24	32
1-Methylnaphthalene	0.0788	0.707	0.912	0.931	260	281	10	10.0-142	V	V	2.06	28
2-Methylnaphthalene	0.0788	0.900	1.11	1.18	266	352	10	10.0-137	V	V	6.11	28
Naphthalene	0.0788	0.922	1.09	1.17	213	312	10	10.0-135	V	V	7.08	27
Pyrene	0.0788	0.0963	0.222	0.229	160	167	10	10.0-148	J5	J5	3.10	35
(S) p-Terphenyl-d14					*91.7*	*93.9*		*23.0-120*				
(S) Nitrobenzene-d5					*0.000*	*0.000*		*14.0-149*	J2	J2		
(S) 2-Fluorobiphenyl					*84.8*	*91.3*		*34.0-125*				

Sample Narrative:

OS: Dilution and surrogate failure due to matrix interference.

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: **Chevron Wilson Creek Unit 31 Reclamation**

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project #

Lab Project #

L# 1506489
F183

Collected by (print): **Jessica Dilka**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 VOCs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	Soil TPH Table 915 (GRO/DRO/ORO)	SAR/EC/pH	Table 915 BTEX, TMBs				Remarks	Sample # (lab only)
Unit 31 BW (18')	Grab	SS	18'	6/16/22	1300	2	X	X	X	X		X	X					01
Unit 31 SW2 (4')	Grab	SS	4'	6/16/22	1310	2	X	X	X	X		X	X					02
Unit 31 BSW (8')	Grab	SS	8'	6/16/22	1305	2	X	X	X	X		X	X					03
Unit 31 SE2 (4')	Grab	SS	4'	6/16/22	1315	2	X	X	X	X		X	X					04
Unit 31- FL2 (2')	Grab	SS	2'	6/16/22	1145	2	X	X	X	X		X	X					05
Unit 31- FL2 (5')	Grab	SS	5'	6/16/22	1425	2	X	X	X	X		X	X					06
Unit 31- FL-NSW (3.5)	Grab	SS	3.5'	6/16/22	1430	2	X	X	X	X		X	X					07
Unit 31- FL-SSW (3.5)	Grab	SS	3.5'	6/16/22	1435	2	X	X	X	X		X	X					08
Unit 31- FL-ESW (3.5)	Grab	SS	3.5'	6/16/22	1440	2	X	X	X	X		X	X					09
Unit 31- FL-WSW (3.5)	Grab	SS	3.5'	6/16/22	1445	2	X	X	X	X		X	X					10

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
TPH Samples sent to Lenexa - Do not Login - Rush Please

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date: 6/17/22	Time: 1800	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date: 6/17/22	Time: 1700	Received by: (Signature)	Temp: RRAOC 0.4to=0.4 Bottles Received: 20	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/18/22 Time: 900	Hold: / Condition: NCF / OK

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

August 29, 2022

Tim Dobransky
Entrada
330 Grand Ave
Suite C
Grand Junction, CO 81501

RE: Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Dear Tim Dobransky:

Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Minneapolis

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

Sincerely,

Lyle Cable
lyle.cable@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Pace Analytical Services National

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10620127001	**Unit 31 B2**	Solid	08/04/22 10:00	08/06/22 09:15
10620127002	**Unit 31 B2 N**	Solid	08/04/22 10:05	08/06/22 09:15
10620127003	**Unit 31 B2 S**	Solid	08/04/22 10:10	08/06/22 09:15
10620127004	**Unit 31 B2 E**	Solid	08/04/22 10:15	08/06/22 09:15
10620127005	**Unit 31 B2 W**	Solid	08/04/22 10:20	08/06/22 09:15

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10620127001	**Unit 31 B2**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015C	TM2	2	PASI-M
		6010B-NE493 Ch 2	ABL	1	PAN
		EPA 6010D	DM	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	SP2	17	PASI-M
		EPA 8260D	ZB	10	PASI-M
		SM 2540G	CMK	1	PAN
		EPA 9050	JD	1	PAN
		Calculated	ZSA	1	PAN
		EPA 9045D	AB3	1	PASI-M
10620127002	**Unit 31 B2 N**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015C	TM2	2	PASI-M
		6010B-NE493 Ch 2	ABL	1	PAN
		EPA 6010D	DM	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	SP2	17	PASI-M
		EPA 8260D	ZB	10	PASI-M
		SM 2540G	CMK	1	PAN
		EPA 9050	JD	1	PAN
		Calculated	ZSA	1	PAN
		EPA 9045D	AB3	1	PASI-M
10620127003	**Unit 31 B2 S**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015C	TM2	2	PASI-M
		6010B-NE493 Ch 2	ABL	1	PAN
		EPA 6010D	DM	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	SP2	17	PASI-M
		EPA 8260D	ZB	10	PASI-M
		SM 2540G	CMK	1	PAN
		EPA 9050	JD	1	PAN
		Calculated	ZSA	1	PAN
		EPA 9045D	AB3	1	PASI-M
10620127004	**Unit 31 B2 E**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015C	TM2	2	PASI-M
		6010B-NE493 Ch 2	ABL	1	PAN
		EPA 6010D	DM	9	PASI-M

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	SP2	17	PASI-M
		EPA 8260D	ZB	10	PASI-M
		SM 2540G	CMK	1	PAN
		EPA 9050	JD	1	PAN
		Calculated	ZSA	1	PAN
		EPA 9045D	AB3	1	PASI-M
10620127005	**Unit 31 B2 W**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015C	TM2	2	PASI-M
		6010B-NE493 Ch 2	ABL	1	PAN
		EPA 6010D	DM	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	SP2	17	PASI-M
		EPA 8260D	ZB	10	PASI-M
		SM 2540G	CMK	1	PAN
		EPA 9050	JD	1	PAN
		Calculated	ZSA	1	PAN
		EPA 9045D	AB3	1	PASI-M

PAN = Pace National - Mt. Juliet
PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 **Lab ID: 10620127001** Collected: 08/04/22 10:00 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3550 Sonication Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**224**	mg/kg	10.8	1	08/08/22 12:04	08/09/22 16:07		N2
TPH-DRO (C10-C28)	**95.9**	mg/kg	10.8	1	08/08/22 12:04	08/09/22 16:07		
Surrogates								
o-Terphenyl (S)	90	%.	30-150	1	08/08/22 12:04	08/09/22 16:07	84-15-1	
n-Triacontane (S)	61	%.	30-150	1	08/08/22 12:04	08/09/22 16:07		
8015C GCV GRO	Analytical Method: EPA 8015C Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	5.9	1	08/16/22 12:52	08/18/22 14:21		
Surrogates								
a,a,a-Trifluorotoluene (S)	89	%.	53-132	1	08/16/22 12:52	08/18/22 14:21	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	ND	ug/L	200	1	08/11/22 09:30	08/17/22 09:35	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.6**	mg/kg	1.1	1	08/11/22 10:50	08/15/22 13:08	7440-38-2	
Barium	**34.2**	mg/kg	0.53	1	08/11/22 10:50	08/15/22 13:08	7440-39-3	
Cadmium	**0.18**	mg/kg	0.16	1	08/11/22 10:50	08/15/22 13:08	7440-43-9	
Copper	**11.1**	mg/kg	0.53	1	08/11/22 10:50	08/15/22 13:08	7440-50-8	
Lead	**13.5**	mg/kg	0.53	1	08/11/22 10:50	08/15/22 13:08	7439-92-1	
Nickel	**10.0**	mg/kg	1.1	1	08/11/22 10:50	08/15/22 13:08	7440-02-0	
Selenium	ND	mg/kg	1.1	1	08/11/22 10:50	08/15/22 13:08	7782-49-2	
Silver	ND	mg/kg	0.53	1	08/11/22 10:50	08/15/22 13:08	7440-22-4	
Zinc	**34.6**	mg/kg	2.1	1	08/11/22 10:50	08/15/22 13:08	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.3**	%	0.10	1		08/12/22 13:16		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	83-32-9	
Anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	207-08-9	
Chrysene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	53-70-3	
Fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	206-44-0	
Fluorene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	86-73-7	

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 **Lab ID: 10620127001** Collected: 08/04/22 10:00 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	91-57-6	
Naphthalene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	91-20-3	
Pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 13:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	59-125	1	08/08/22 17:33	08/09/22 13:08	321-60-8	
p-Terphenyl-d14 (S)	86	%.	65-125	1	08/08/22 17:33	08/09/22 13:08	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	mg/kg	0.024	1	08/12/22 11:32	08/12/22 18:00	71-43-2	
Ethylbenzene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:00	100-41-4	
Naphthalene	ND	ug/kg	238	1	08/12/22 11:32	08/12/22 18:00	91-20-3	
Toluene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:00	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:00	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:00	108-67-8	
Xylene (Total)	ND	mg/kg	0.18	1	08/12/22 11:32	08/12/22 18:00	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%.	75-125	1	08/12/22 11:32	08/12/22 18:00	460-00-4	
Toluene-d8 (S)	98	%.	75-125	1	08/12/22 11:32	08/12/22 18:00	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	08/12/22 11:32	08/12/22 18:00	2199-69-1	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G							
	Pace National - Mt. Juliet							
Total Solids	**92.1**	%		1	08/11/22 13:45	08/11/22 14:06		
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**205**	umhos/cm	10.0	1	08/25/22 10:00	08/28/22 17:00		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.242**			1	08/17/22 22:03	08/17/22 22:03		
9045D pH	Analytical Method: EPA 9045D							
	Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**8.0**	Std. Units	0.10	1		08/16/22 18:21		

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 N **Lab ID: 10620127002** Collected: 08/04/22 10:05 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3550 Sonication Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**72.3**	mg/kg	12.0	1	08/08/22 12:04	08/09/22 17:14		N2
TPH-DRO (C10-C28)	**26.6**	mg/kg	12.0	1	08/08/22 12:04	08/09/22 17:14		
Surrogates								
o-Terphenyl (S)	85	%.	30-150	1	08/08/22 12:04	08/09/22 17:14	84-15-1	
n-Triacontane (S)	76	%.	30-150	1	08/08/22 12:04	08/09/22 17:14		
8015C GCV GRO	Analytical Method: EPA 8015C Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	7.0	1	08/16/22 12:52	08/18/22 14:37		
Surrogates								
a,a,a-Trifluorotoluene (S)	88	%.	53-132	1	08/16/22 12:52	08/18/22 14:37	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	ND	ug/L	200	1	08/11/22 09:30	08/17/22 09:38	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.4**	mg/kg	1.1	1	08/11/22 10:50	08/15/22 13:17	7440-38-2	
Barium	**51.8**	mg/kg	0.57	1	08/11/22 10:50	08/15/22 13:17	7440-39-3	
Cadmium	**0.18**	mg/kg	0.17	1	08/11/22 10:50	08/15/22 13:17	7440-43-9	
Copper	**11.2**	mg/kg	0.57	1	08/11/22 10:50	08/15/22 13:17	7440-50-8	
Lead	**13.8**	mg/kg	0.57	1	08/11/22 10:50	08/15/22 13:17	7439-92-1	
Nickel	**8.5**	mg/kg	1.1	1	08/11/22 10:50	08/15/22 13:17	7440-02-0	
Selenium	ND	mg/kg	1.1	1	08/11/22 10:50	08/15/22 13:17	7782-49-2	
Silver	ND	mg/kg	0.57	1	08/11/22 10:50	08/15/22 13:17	7440-22-4	
Zinc	**37.9**	mg/kg	2.3	1	08/11/22 10:50	08/15/22 13:17	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.6**	%	0.10	1		08/12/22 13:16		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	83-32-9	
Anthracene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	207-08-9	
Chrysene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	53-70-3	
Fluoranthene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	206-44-0	
Fluorene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	86-73-7	

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 N **Lab ID: 10620127002** Collected: 08/04/22 10:05 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	91-57-6	
Naphthalene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	91-20-3	
Pyrene	ND	mg/kg	0.012	1	08/08/22 17:33	08/09/22 15:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77	%.	59-125	1	08/08/22 17:33	08/09/22 15:09	321-60-8	
p-Terphenyl-d14 (S)	86	%.	65-125	1	08/08/22 17:33	08/09/22 15:09	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	mg/kg	0.028	1	08/12/22 11:32	08/12/22 18:16	71-43-2	
Ethylbenzene	ND	mg/kg	0.069	1	08/12/22 11:32	08/12/22 18:16	100-41-4	
Naphthalene	ND	ug/kg	278	1	08/12/22 11:32	08/12/22 18:16	91-20-3	
Toluene	ND	mg/kg	0.069	1	08/12/22 11:32	08/12/22 18:16	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.069	1	08/12/22 11:32	08/12/22 18:16	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.069	1	08/12/22 11:32	08/12/22 18:16	108-67-8	
Xylene (Total)	ND	mg/kg	0.21	1	08/12/22 11:32	08/12/22 18:16	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%.	75-125	1	08/12/22 11:32	08/12/22 18:16	460-00-4	
Toluene-d8 (S)	97	%.	75-125	1	08/12/22 11:32	08/12/22 18:16	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	08/12/22 11:32	08/12/22 18:16	2199-69-1	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G							
	Pace National - Mt. Juliet							
Total Solids	**84.7**	%		1	08/11/22 13:45	08/11/22 14:06		
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**553**	umhos/cm	10.0	1	08/25/22 10:00	08/28/22 17:00		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.179**			1	08/17/22 22:06	08/17/22 22:06		
9045D pH	Analytical Method: EPA 9045D							
	Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**8.0**	Std. Units	0.10	1		08/16/22 17:13		

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 S **Lab ID: 10620127003** Collected: 08/04/22 10:10 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3550 Sonication Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**166**	mg/kg	11.0	1	08/08/22 12:04	08/09/22 16:41		N2
TPH-DRO (C10-C28)	**82.4**	mg/kg	11.0	1	08/08/22 12:04	08/09/22 16:41		
Surrogates								
o-Terphenyl (S)	93	%.	30-150	1	08/08/22 12:04	08/09/22 16:41	84-15-1	
n-Triacontane (S)	77	%.	30-150	1	08/08/22 12:04	08/09/22 16:41		
8015C GCV GRO	Analytical Method: EPA 8015C Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	6.0	1	08/16/22 12:52	08/18/22 14:53		
Surrogates								
a,a,a-Trifluorotoluene (S)	83	%.	53-132	1	08/16/22 12:52	08/18/22 14:53	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	ND	ug/L	200	1	08/11/22 09:30	08/17/22 09:40	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.5**	mg/kg	1.0	1	08/11/22 10:50	08/15/22 13:18	7440-38-2	
Barium	**40.7**	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:18	7440-39-3	
Cadmium	**0.18**	mg/kg	0.16	1	08/11/22 10:50	08/15/22 13:18	7440-43-9	
Copper	**11.4**	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:18	7440-50-8	
Lead	**13.2**	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:18	7439-92-1	
Nickel	**9.5**	mg/kg	1.0	1	08/11/22 10:50	08/15/22 13:18	7440-02-0	
Selenium	ND	mg/kg	1.0	1	08/11/22 10:50	08/15/22 13:18	7782-49-2	
Silver	ND	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:18	7440-22-4	
Zinc	**33.9**	mg/kg	2.1	1	08/11/22 10:50	08/15/22 13:18	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.4**	%	0.10	1		08/12/22 13:16		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	83-32-9	
Anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	207-08-9	
Chrysene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	53-70-3	
Fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	206-44-0	
Fluorene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	86-73-7	

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 S **Lab ID: 10620127003** Collected: 08/04/22 10:10 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	91-57-6	
Naphthalene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	91-20-3	
Pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 15:29	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84	%.	59-125	1	08/08/22 17:33	08/09/22 15:29	321-60-8	
p-Terphenyl-d14 (S)	84	%.	65-125	1	08/08/22 17:33	08/09/22 15:29	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	mg/kg	0.024	1	08/12/22 11:32	08/12/22 18:32	71-43-2	
Ethylbenzene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:32	100-41-4	
Naphthalene	ND	ug/kg	240	1	08/12/22 11:32	08/12/22 18:32	91-20-3	
Toluene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:32	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:32	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.060	1	08/12/22 11:32	08/12/22 18:32	108-67-8	
Xylene (Total)	ND	mg/kg	0.18	1	08/12/22 11:32	08/12/22 18:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%.	75-125	1	08/12/22 11:32	08/12/22 18:32	460-00-4	
Toluene-d8 (S)	98	%.	75-125	1	08/12/22 11:32	08/12/22 18:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	08/12/22 11:32	08/12/22 18:32	2199-69-1	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G							
	Pace National - Mt. Juliet							
Total Solids	**88.9**	%		1	08/11/22 13:45	08/11/22 14:06		
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**200**	umhos/cm	10.0	1	08/25/22 10:00	08/28/22 17:00		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.245**			1	08/17/22 22:09	08/17/22 22:09		
9045D pH	Analytical Method: EPA 9045D							
	Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**8.5**	Std. Units	0.10	1		08/16/22 17:17		

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 E **Lab ID: 10620127004** Collected: 08/04/22 10:15 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3550 Sonication Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**205**	mg/kg	13.4	1	08/08/22 12:04	08/09/22 16:52		N2
TPH-DRO (C10-C28)	**111**	mg/kg	13.4	1	08/08/22 12:04	08/09/22 16:52		
Surrogates								
o-Terphenyl (S)	93	%.	30-150	1	08/08/22 12:04	08/09/22 16:52	84-15-1	
n-Triacontane (S)	78	%.	30-150	1	08/08/22 12:04	08/09/22 16:52		
8015C GCV GRO	Analytical Method: EPA 8015C Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	8.4	1	08/16/22 12:52	08/18/22 15:09		
Surrogates								
a,a,a-Trifluorotoluene (S)	76	%.	53-132	1	08/16/22 12:52	08/18/22 15:09	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	ND	ug/L	200	1	08/11/22 09:30	08/17/22 09:43	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.8**	mg/kg	1.3	1	08/11/22 10:50	08/15/22 13:20	7440-38-2	
Barium	**39.4**	mg/kg	0.63	1	08/11/22 10:50	08/15/22 13:20	7440-39-3	
Cadmium	ND	mg/kg	0.19	1	08/11/22 10:50	08/15/22 13:20	7440-43-9	
Copper	**12.0**	mg/kg	0.63	1	08/11/22 10:50	08/15/22 13:20	7440-50-8	
Lead	**16.3**	mg/kg	0.63	1	08/11/22 10:50	08/15/22 13:20	7439-92-1	
Nickel	**10.1**	mg/kg	1.3	1	08/11/22 10:50	08/15/22 13:20	7440-02-0	
Selenium	ND	mg/kg	1.3	1	08/11/22 10:50	08/15/22 13:20	7782-49-2	
Silver	ND	mg/kg	0.63	1	08/11/22 10:50	08/15/22 13:20	7440-22-4	
Zinc	**43.8**	mg/kg	2.5	1	08/11/22 10:50	08/15/22 13:20	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**25.4**	%	0.10	1		08/12/22 13:16		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	83-32-9	
Anthracene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	207-08-9	
Chrysene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	53-70-3	
Fluoranthene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	206-44-0	
Fluorene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	86-73-7	

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 E **Lab ID: 10620127004** Collected: 08/04/22 10:15 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	90-12-0	
2-Methylnaphthalene	**0.016**	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	91-57-6	
Naphthalene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	91-20-3	
Pyrene	ND	mg/kg	0.013	1	08/08/22 17:33	08/09/22 15:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	59-125	1	08/08/22 17:33	08/09/22 15:49	321-60-8	
p-Terphenyl-d14 (S)	83	%.	65-125	1	08/08/22 17:33	08/09/22 15:49	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	mg/kg	0.034	1	08/12/22 11:32	08/12/22 18:48	71-43-2	
Ethylbenzene	ND	mg/kg	0.085	1	08/12/22 11:32	08/12/22 18:48	100-41-4	
Naphthalene	ND	ug/kg	339	1	08/12/22 11:32	08/12/22 18:48	91-20-3	
Toluene	ND	mg/kg	0.085	1	08/12/22 11:32	08/12/22 18:48	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.085	1	08/12/22 11:32	08/12/22 18:48	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.085	1	08/12/22 11:32	08/12/22 18:48	108-67-8	
Xylene (Total)	ND	mg/kg	0.25	1	08/12/22 11:32	08/12/22 18:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%.	75-125	1	08/12/22 11:32	08/12/22 18:48	460-00-4	
Toluene-d8 (S)	98	%.	75-125	1	08/12/22 11:32	08/12/22 18:48	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	08/12/22 11:32	08/12/22 18:48	2199-69-1	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G							
	Pace National - Mt. Juliet							
Total Solids	**82.8**	%		1	08/11/22 13:45	08/11/22 14:06		
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**260**	umhos/cm	10.0	1	08/25/22 10:00	08/28/22 17:00		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.201**			1	08/17/22 22:12	08/17/22 22:12		
9045D pH	Analytical Method: EPA 9045D							
	Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**8.2**	Std. Units	0.10	1		08/16/22 17:21		

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 W **Lab ID: 10620127005** Collected: 08/04/22 10:20 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3550 Sonication Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**154**	mg/kg	11.0	1	08/08/22 12:04	08/09/22 17:03		N2
TPH-DRO (C10-C28)	**96.4**	mg/kg	11.0	1	08/08/22 12:04	08/09/22 17:03		
Surrogates								
o-Terphenyl (S)	92	%.	30-150	1	08/08/22 12:04	08/09/22 17:03	84-15-1	
n-Triacontane (S)	59	%.	30-150	1	08/08/22 12:04	08/09/22 17:03		
8015C GCV GRO	Analytical Method: EPA 8015C Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	**6.2**	mg/kg	6.1	1	08/16/22 12:52	08/18/22 15:25		BC
Surrogates								
a,a,a-Trifluorotoluene (S)	101	%.	53-132	1	08/16/22 12:52	08/18/22 15:25	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	ND	ug/L	200	1	08/11/22 09:30	08/17/22 09:46	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.8**	mg/kg	1.0	1	08/11/22 10:50	08/15/22 13:25	7440-38-2	
Barium	**51.6**	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:25	7440-39-3	
Cadmium	**0.22**	mg/kg	0.15	1	08/11/22 10:50	08/15/22 13:25	7440-43-9	
Copper	**11.1**	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:25	7440-50-8	
Lead	**13.8**	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:25	7439-92-1	
Nickel	**10.2**	mg/kg	1.0	1	08/11/22 10:50	08/15/22 13:25	7440-02-0	
Selenium	ND	mg/kg	1.0	1	08/11/22 10:50	08/15/22 13:25	7782-49-2	
Silver	ND	mg/kg	0.52	1	08/11/22 10:50	08/15/22 13:25	7440-22-4	
Zinc	**42.2**	mg/kg	2.1	1	08/11/22 10:50	08/15/22 13:25	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.8**	%	0.10	1		08/12/22 13:17		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	83-32-9	
Anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	207-08-9	
Chrysene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	53-70-3	
Fluoranthene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	206-44-0	
Fluorene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	86-73-7	

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Sample: Unit 31 B2 W **Lab ID: 10620127005** Collected: 08/04/22 10:20 Received: 08/06/22 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	193-39-5	
1-Methylnaphthalene	**0.024**	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	90-12-0	
2-Methylnaphthalene	**0.030**	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	91-57-6	
Naphthalene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	91-20-3	
Pyrene	ND	mg/kg	0.011	1	08/08/22 17:33	08/09/22 16:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70	%.	59-125	1	08/08/22 17:33	08/09/22 16:09	321-60-8	
p-Terphenyl-d14 (S)	85	%.	65-125	1	08/08/22 17:33	08/09/22 16:09	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	mg/kg	0.024	1	08/12/22 11:32	08/12/22 19:04	71-43-2	
Ethylbenzene	ND	mg/kg	0.061	1	08/12/22 11:32	08/12/22 19:04	100-41-4	
Naphthalene	ND	ug/kg	243	1	08/12/22 11:32	08/12/22 19:04	91-20-3	
Toluene	ND	mg/kg	0.061	1	08/12/22 11:32	08/12/22 19:04	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.061	1	08/12/22 11:32	08/12/22 19:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.061	1	08/12/22 11:32	08/12/22 19:04	108-67-8	
Xylene (Total)	ND	mg/kg	0.18	1	08/12/22 11:32	08/12/22 19:04	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%.	75-125	1	08/12/22 11:32	08/12/22 19:04	460-00-4	
Toluene-d8 (S)	96	%.	75-125	1	08/12/22 11:32	08/12/22 19:04	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	08/12/22 11:32	08/12/22 19:04	2199-69-1	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G							
	Pace National - Mt. Juliet							
Total Solids	**78.1**	%		1	08/11/22 13:45	08/11/22 14:06		
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**265**	umhos/cm	10.0	1	08/25/22 10:00	08/28/22 17:00		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.242**			1	08/17/22 22:15	08/17/22 22:15		
9045D pH	Analytical Method: EPA 9045D							
	Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**8.3**	Std. Units	0.10	1		08/16/22 17:25		

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 834832
QC Batch Method: EPA 5030
Analysis Method: EPA 8015C
Analysis Description: 8015C GCV Solid
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: 4420842
Matrix: Solid
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	08/18/22 14:05	
a,a,a-Trifluorotoluene (S)	%.	93	53-132	08/18/22 14:05	

LABORATORY CONTROL SAMPLE & LCSD: 4420843 4420844

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	45.4	42.2	91	84	73-127	7	20	
a,a,a-Trifluorotoluene (S)	%.				102	84	53-132			

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 1908824
QC Batch Method: HWS Boron
Analysis Method: 6010B-NE493 Ch 2
Analysis Description: Metals (ICP) 6010B-NE493 Ch 2
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: R3827265-1
Matrix: Solid
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Hot Water Soluble	ug/L	ND	200	08/17/22 08:56	

LABORATORY CONTROL SAMPLE & LCSD: R3827265-2 R3827265-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Boron, Hot Water Soluble	ug/L	1000	978	991	97.8	99.1	80.0-120	1.36	20	

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 832880
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: 4412002
Matrix: Solid
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.97	08/15/22 13:05	
Barium	mg/kg	ND	0.49	08/15/22 13:05	
Cadmium	mg/kg	ND	0.15	08/15/22 13:05	
Copper	mg/kg	ND	0.49	08/15/22 13:05	
Lead	mg/kg	ND	0.49	08/15/22 13:05	
Nickel	mg/kg	ND	0.97	08/15/22 13:05	
Selenium	mg/kg	ND	0.97	08/15/22 13:05	
Silver	mg/kg	ND	0.49	08/15/22 13:05	
Zinc	mg/kg	ND	1.9	08/15/22 13:05	

LABORATORY CONTROL SAMPLE: 4412003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	46.1	44.5	96	80-120	
Barium	mg/kg	46.1	47.9	104	80-120	
Cadmium	mg/kg	46.1	46.6	101	80-120	
Copper	mg/kg	46.1	46.6	101	80-120	
Lead	mg/kg	46.1	46.7	101	80-120	
Nickel	mg/kg	46.1	46.9	102	80-120	
Selenium	mg/kg	46.1	43.4	94	80-120	
Silver	mg/kg	23.1	22.7	98	80-120	
Zinc	mg/kg	46.1	46.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4412004 4412005

Parameter	Units	10620127001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	2.6	53.4	53.6	45.8	45.4	81	80	75-125	1	20	
Barium	mg/kg	34.2	53.4	53.6	88.3	83.1	101	91	75-125	6	20	
Cadmium	mg/kg	0.18	53.4	53.6	44.5	44.9	83	83	75-125	1	20	
Copper	mg/kg	11.1	53.4	53.6	57.1	57.9	86	87	75-125	1	20	
Lead	mg/kg	13.5	53.4	53.6	57.3	57.4	82	82	75-125	0	20	
Nickel	mg/kg	10.0	53.4	53.6	54.6	53.3	83	81	75-125	2	20	
Selenium	mg/kg	ND	53.4	53.6	43.2	43.2	80	80	75-125	0	20	
Silver	mg/kg	ND	26.7	26.8	22.5	22.6	84	84	75-125	1	20	
Zinc	mg/kg	34.6	53.4	53.6	92.6	81.7	108	88	75-125	12	20	

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 834157
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

SAMPLE DUPLICATE: 4417707

Parameter	Units	10620507001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	5.5	11	30	N2

SAMPLE DUPLICATE: 4417917

Parameter	Units	10620128003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	38.5	35.0	9	30	N2

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 834153
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: 4417693
Matrix: Solid
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	08/12/22 16:40	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	08/12/22 16:40	
Benzene	mg/kg	ND	0.020	08/12/22 16:40	
Ethylbenzene	mg/kg	ND	0.050	08/12/22 16:40	
Naphthalene	ug/kg	ND	200	08/12/22 16:40	
Toluene	mg/kg	ND	0.050	08/12/22 16:40	
Xylene (Total)	mg/kg	ND	0.15	08/12/22 16:40	
1,2-Dichlorobenzene-d4 (S)	%.	98	75-125	08/12/22 16:40	
4-Bromofluorobenzene (S)	%.	98	75-125	08/12/22 16:40	
Toluene-d8 (S)	%.	97	75-125	08/12/22 16:40	

LABORATORY CONTROL SAMPLE & LCSD: 4417694 4417695

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	1	1.1	1.1	111	106	63-125	5	20	
1,3,5-Trimethylbenzene	mg/kg	1	1.1	1.1	113	107	62-125	5	20	
Benzene	mg/kg	1	1.1	1.1	111	105	58-126	5	20	
Ethylbenzene	mg/kg	1	1.1	1.1	115	111	67-125	4	20	
Naphthalene	ug/kg	1000	1010	1050	101	105	57-145	4	20	
Toluene	mg/kg	1	1.1	1.0	107	104	57-125	3	20	
Xylene (Total)	mg/kg	3	3.4	3.3	114	110	64-125	3	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	100	75-125			
4-Bromofluorobenzene (S)	%.				100	99	75-125			
Toluene-d8 (S)	%.				98	97	75-125			

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 832988
QC Batch Method: EPA 3550 Sonication
Analysis Method: EPA 8015D Modified
Analysis Description: 8015D Solid GCSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: 4412344 Matrix: Solid
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	10.0	08/09/22 15:45	
n-Triacontane (S)	%.	81	30-150	08/09/22 15:45	
o-Terphenyl (S)	%.	84	30-150	08/09/22 15:45	

LABORATORY CONTROL SAMPLE: 4412345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	50	40.0	80	65-125	
n-Triacontane (S)	%.			73	30-150	
o-Terphenyl (S)	%.			86	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4412346 4412347

Parameter	Units	10620127001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	95.9	54.2	54.2	150	136	100	74	30-130	10	30	
n-Triacontane (S)	%.						59	61	30-150			
o-Terphenyl (S)	%.						85	90	30-150			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 833073
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: 4412715
Matrix: Solid
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.010	08/09/22 11:06	
2-Methylnaphthalene	mg/kg	ND	0.010	08/09/22 11:06	
Acenaphthene	mg/kg	ND	0.010	08/09/22 11:06	
Anthracene	mg/kg	ND	0.010	08/09/22 11:06	
Benzo(a)anthracene	mg/kg	ND	0.010	08/09/22 11:06	
Benzo(a)pyrene	mg/kg	ND	0.010	08/09/22 11:06	
Benzo(b)fluoranthene	mg/kg	ND	0.010	08/09/22 11:06	
Benzo(k)fluoranthene	mg/kg	ND	0.010	08/09/22 11:06	
Chrysene	mg/kg	ND	0.010	08/09/22 11:06	
Dibenz(a,h)anthracene	mg/kg	ND	0.010	08/09/22 11:06	
Fluoranthene	mg/kg	ND	0.010	08/09/22 11:06	
Fluorene	mg/kg	ND	0.010	08/09/22 11:06	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	08/09/22 11:06	
Naphthalene	mg/kg	ND	0.010	08/09/22 11:06	
Pyrene	mg/kg	ND	0.010	08/09/22 11:06	
2-Fluorobiphenyl (S)	%.	68	59-125	08/09/22 11:06	
p-Terphenyl-d14 (S)	%.	87	65-125	08/09/22 11:06	

LABORATORY CONTROL SAMPLE: 4412716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.1	0.057	57	50-125	
2-Methylnaphthalene	mg/kg	0.1	0.058	58	55-125	
Acenaphthene	mg/kg	0.1	0.069	69	60-125	
Anthracene	mg/kg	0.1	0.093	93	62-125	
Benzo(a)anthracene	mg/kg	0.1	0.086	86	64-125	
Benzo(a)pyrene	mg/kg	0.1	0.085	85	64-125	
Benzo(b)fluoranthene	mg/kg	0.1	0.082	82	65-125	
Benzo(k)fluoranthene	mg/kg	0.1	0.10	102	66-125	
Chrysene	mg/kg	0.1	0.090	90	66-125	
Dibenz(a,h)anthracene	mg/kg	0.1	0.083	83	67-125	
Fluoranthene	mg/kg	0.1	0.090	90	65-125	
Fluorene	mg/kg	0.1	0.080	80	60-125	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.084	84	64-125	
Naphthalene	mg/kg	0.1	0.053	53	48-125	
Pyrene	mg/kg	0.1	0.086	86	68-125	
2-Fluorobiphenyl (S)	%.			64	59-125	
p-Terphenyl-d14 (S)	%.			91	65-125	

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4412717 4412718

Parameter	Units	10620127001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	ND	0.11	0.11	0.089	0.090	82	83	60-125	2	30	
2-Methylnaphthalene	mg/kg	ND	0.11	0.11	0.091	0.093	84	85	59-125	1	30	
Acenaphthene	mg/kg	ND	0.11	0.11	0.094	0.093	87	85	70-125	2	30	
Anthracene	mg/kg	ND	0.11	0.11	0.097	0.094	89	87	67-125	3	30	
Benzo(a)anthracene	mg/kg	ND	0.11	0.11	0.10	0.098	92	91	64-125	1	30	
Benzo(a)pyrene	mg/kg	ND	0.11	0.11	0.10	0.099	92	91	40-137	2	30	
Benzo(b)fluoranthene	mg/kg	ND	0.11	0.11	0.096	0.12	88	107	30-150	20	30	
Benzo(k)fluoranthene	mg/kg	ND	0.11	0.11	0.12	0.094	109	87	48-133	22	30	
Chrysene	mg/kg	ND	0.11	0.11	0.11	0.11	102	103	62-125	1	30	
Dibenz(a,h)anthracene	mg/kg	ND	0.11	0.11	0.11	0.11	97	98	57-125	0	30	
Fluoranthene	mg/kg	ND	0.11	0.11	0.11	0.11	102	99	60-125	3	30	
Fluorene	mg/kg	ND	0.11	0.11	0.10	0.099	93	91	53-125	2	30	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.11	0.11	0.10	0.10	95	96	49-130	1	30	
Naphthalene	mg/kg	ND	0.11	0.11	0.064	0.070	59	65	46-125	9	30	
Pyrene	mg/kg	ND	0.11	0.11	0.098	0.096	90	88	58-125	3	30	
2-Fluorobiphenyl (S)	%.						84	85	59-125			
p-Terphenyl-d14 (S)	%.						90	88	65-125			

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 1909145
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: R3825627-1
Matrix: Solid
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00300		08/11/22 14:06	

LABORATORY CONTROL SAMPLE: R3825627-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3825627-3

Parameter	Units	10620127001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	92.1	91.7	0.442	10	

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 1916229
QC Batch Method: 9050A
Analysis Method: EPA 9050
Analysis Description: Wet Chemistry 9050AMod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: R3831255-1
Matrix: Solid
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	08/28/22 17:00	

LABORATORY CONTROL SAMPLE: R3831255-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1120	1120	100	85.0-115	

SAMPLE DUPLICATE: R3831255-3

Parameter	Units	10620127003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	200	200	0.00	20	

SAMPLE DUPLICATE: R3831255-4

Parameter	Units	L1524187-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	308	311	0.969	20	

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 1916229
QC Batch Method: EPA 9050
Analysis Method: EPA 9050
Analysis Description: Wet Chemistry 9050AMod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

METHOD BLANK: R3831255-1
Matrix: Solid
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	08/28/22 17:00	

LABORATORY CONTROL SAMPLE: R3831255-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1120	1120	100	85.0-115	

SAMPLE DUPLICATE: R3831255-3

Parameter	Units	10620127003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	200	200	0.00	20	

SAMPLE DUPLICATE: R3831255-4

Parameter	Units	L1524187-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	308	311	0.969	20	

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

QC Batch: 834796
QC Batch Method: EPA 9045D
Analysis Method: EPA 9045D
Analysis Description: 9045D pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10620127001, 10620127002, 10620127003, 10620127004, 10620127005

LABORATORY CONTROL SAMPLE: 4420629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.1	101	98-102	

SAMPLE DUPLICATE: 4420630

Parameter	Units	10620127001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	1	3	

SAMPLE DUPLICATE: 4420631

Parameter	Units	10620792002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.7	1	3	

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QUALIFIERS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10620127

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

SAMPLE QUALIFIERS

Sample: 10620127001

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 10620127002

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 10620127003

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 10620127004

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 10620127005

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3831255-1

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3831255-2

[1] Wet Chemistry by Method 9050AMod - at 25C

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QUALIFIERS

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

SAMPLE QUALIFIERS

Sample: R3831255-3

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3831255-4

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: L1524187-03

[1] Wet Chemistry by Method 9050AMod - at 25C

BATCH QUALIFIERS

Batch: 834523

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 834874

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10620127001	**Unit 31 B2**	EPA 3550 Sonication	832988	EPA 8015D Modified	833490
10620127002	**Unit 31 B2 N**	EPA 3550 Sonication	832988	EPA 8015D Modified	833490
10620127003	**Unit 31 B2 S**	EPA 3550 Sonication	832988	EPA 8015D Modified	833490
10620127004	**Unit 31 B2 E**	EPA 3550 Sonication	832988	EPA 8015D Modified	833490
10620127005	**Unit 31 B2 W**	EPA 3550 Sonication	832988	EPA 8015D Modified	833490
10620127001	**Unit 31 B2**	EPA 5030	834832	EPA 8015C	834874
10620127002	**Unit 31 B2 N**	EPA 5030	834832	EPA 8015C	834874
10620127003	**Unit 31 B2 S**	EPA 5030	834832	EPA 8015C	834874
10620127004	**Unit 31 B2 E**	EPA 5030	834832	EPA 8015C	834874
10620127005	**Unit 31 B2 W**	EPA 5030	834832	EPA 8015C	834874
10620127001	**Unit 31 B2**	HWS Boron	1908824	6010B-NE493 Ch 2	1908824
10620127002	**Unit 31 B2 N**	HWS Boron	1908824	6010B-NE493 Ch 2	1908824
10620127003	**Unit 31 B2 S**	HWS Boron	1908824	6010B-NE493 Ch 2	1908824
10620127004	**Unit 31 B2 E**	HWS Boron	1908824	6010B-NE493 Ch 2	1908824
10620127005	**Unit 31 B2 W**	HWS Boron	1908824	6010B-NE493 Ch 2	1908824
10620127001	**Unit 31 B2**	EPA 3050B	832880	EPA 6010D	834018
10620127002	**Unit 31 B2 N**	EPA 3050B	832880	EPA 6010D	834018
10620127003	**Unit 31 B2 S**	EPA 3050B	832880	EPA 6010D	834018
10620127004	**Unit 31 B2 E**	EPA 3050B	832880	EPA 6010D	834018
10620127005	**Unit 31 B2 W**	EPA 3050B	832880	EPA 6010D	834018
10620127001	**Unit 31 B2**	ASTM D2974	834157		
10620127002	**Unit 31 B2 N**	ASTM D2974	834157		
10620127003	**Unit 31 B2 S**	ASTM D2974	834157		
10620127004	**Unit 31 B2 E**	ASTM D2974	834157		
10620127005	**Unit 31 B2 W**	ASTM D2974	834157		
10620127001	**Unit 31 B2**	EPA 3546	833073	EPA 8270E by SIM	833257
10620127002	**Unit 31 B2 N**	EPA 3546	833073	EPA 8270E by SIM	833257
10620127003	**Unit 31 B2 S**	EPA 3546	833073	EPA 8270E by SIM	833257
10620127004	**Unit 31 B2 E**	EPA 3546	833073	EPA 8270E by SIM	833257
10620127005	**Unit 31 B2 W**	EPA 3546	833073	EPA 8270E by SIM	833257
10620127001	**Unit 31 B2**	EPA 5035/5030B	834153	EPA 8260D	834523
10620127002	**Unit 31 B2 N**	EPA 5035/5030B	834153	EPA 8260D	834523
10620127003	**Unit 31 B2 S**	EPA 5035/5030B	834153	EPA 8260D	834523
10620127004	**Unit 31 B2 E**	EPA 5035/5030B	834153	EPA 8260D	834523
10620127005	**Unit 31 B2 W**	EPA 5035/5030B	834153	EPA 8260D	834523
10620127001	**Unit 31 B2**	SM 2540 G	1909145	SM 2540G	1909145
10620127002	**Unit 31 B2 N**	SM 2540 G	1909145	SM 2540G	1909145
10620127003	**Unit 31 B2 S**	SM 2540 G	1909145	SM 2540G	1909145
10620127004	**Unit 31 B2 E**	SM 2540 G	1909145	SM 2540G	1909145
10620127005	**Unit 31 B2 W**	SM 2540 G	1909145	SM 2540G	1909145
10620127001	**Unit 31 B2**	9050A	1916229	EPA 9050	1916229
10620127002	**Unit 31 B2 N**	9050A	1916229	EPA 9050	1916229
10620127003	**Unit 31 B2 S**	9050A	1916229	EPA 9050	1916229
10620127004	**Unit 31 B2 E**	9050A	1916229	EPA 9050	1916229
10620127005	**Unit 31 B2 W**	9050A	1916229	EPA 9050	1916229

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Chevron Wilson Creek Unit 31 R
Pace Project No.: 10620127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10620127001	**Unit 31 B2**	Calc	1911329	Calculated	1911329
10620127002	**Unit 31 B2 N**	Calc	1911329	Calculated	1911329
10620127003	**Unit 31 B2 S**	Calc	1911329	Calculated	1911329
10620127004	**Unit 31 B2 E**	Calc	1911329	Calculated	1911329
10620127005	**Unit 31 B2 W**	Calc	1911329	Calculated	1911329
10620127001	**Unit 31 B2**	EPA 9045D	834796		
10620127002	**Unit 31 B2 N**	EPA 9045D	834796		
10620127003	**Unit 31 B2 S**	EPA 9045D	834796		
10620127004	**Unit 31 B2 E**	EPA 9045D	834796		
10620127005	**Unit 31 B2 W**	EPA 9045D	834796		

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: **Chevron Wilson Creek Unit 31 Reclamation**

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project #

Lab Project #

Collected by (print): **Jessica Dilka**

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y X

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 BTEX, TMBs	Table 915 PAHs	Table 915 VOCs	Hot Water Soluble Boron	Table 915 Soil TPH - GRO/DRO/ORO	SAR/EC/pH	Table 915 Metals				Remarks	Sample # (lab only)
Unit 31 B2	Grab	SS	18'	8/4/22	1000	3	X	X	X	X	X	X	X					001
Unit 31 B2 N	Grab	SS	16'	8/4/22	1005	3	X	X	X	X	X	X	X					002
Unit 31 B2 S	Grab	SS	16'	8/4/22	1010	3	X	X	X	X	X	X	X					003
Unit 31 B2 E	Grab	SS	16'	8/4/22	1015	3	X	X	X	X	X	X	X					004
Unit 31 B2 W	Grab	SS	16'	8/4/22	1020	3	X	X	X	X	X	X	X					005

WO#: 10620127
10620127

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: [redacted]

Template:

Prelogin:

TSR:

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	8/5/22	1400			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.4 °C Bottles Received:	If preservation required by Login: Date/Time
	8/5/22	1800	4/PACE		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 08/06/22 Time: 9:15	Hold: / Condition: NCF / OK

Pace Analytical Services	DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)
	Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: Entra Consulting Group

Project #:

WO#: 10620127
PM: LKC **Due Date: 08/12/22**
CLIENT: Entrada

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

See Exceptions ☐ ENV-FRM-MIN4-0142

Tracking Number: 2769 5174 0702

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☑ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☑ T4(0254) ☐ T5(0489) ☐ T6(0235) ☐ T7 (0042) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808

Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** _____ °C

Correction Factor: True **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 6.9 °C ☑ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** KN 08/06/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☑ Minneapolis ☐ Virginia				**COMMENTS:**
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If Fecal: ☐ <8 hrs ☐ >8hr, <24 hrs, ☐ >24 hrs
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☑ Yes	☐ No		6.
Sufficient Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No		8.
-Pace Containers Used?	☐ Yes	☑ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☐ Water ☑ Soil ☐ Oil ☐ Other-	☑ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☑ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Tim Dobransky Date/Time: 8/8/22 1740

Comments/Resolution: Emailed Tim regarding sample temperature upon receipt. TP flag applied. lkc 8/8/22

Project Manager Review: Lyle Cable **Date:** 8/8/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: _____

Pace ANALYTICAL SERVICES	**DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt (SCUR) Exception Form**
	Effective Date: 02/25/2022

SCUR Exceptions: **Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
7.7		6.9
8.1	TRUE	
6.4		
5.2		

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Qualtrax ID: 52763

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: CO
Cert. Needed: ☐ Yes ☐ No

Pace Analytical®
www.pacelabs.com

Workorder: 10620127 **Workorder Name:** Chevron Wilson Creek Unit 31 R **Owner Received Date:** 8/6/2022 **Results Requested By:** 8/22/2022

Report To

Lyle Cable
Pace Analytical Minnesota
1700 Elm Street
Minneapolis, MN 55414
Phone (612)607-1700

Subcontract To

Pace Analytical Bakersfield
4100 Atlas Court
Bakersfield, CA 93313
Phone (661)327-4911

22-18927

JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 7199 Hex Chrome to Bakersfield												LAB USE ONLY
1	Unit 31 B2 -1	PS	8/4/2022 10:00	10620127001	Solid	1						X												
2	Unit 31 B2 N -2	PS	8/4/2022 10:05	10620127002	Solid	1						X												
3	Unit 31 B2 S -3	PS	8/4/2022 10:10	10620127003	Solid	1						X												
4	Unit 31 B2 E -4	PS	8/4/2022 10:15	10620127004	Solid	1						X												
5	Unit 31 B2 W -5	PS	8/4/2022 10:20	10620127005	Solid	1						X												

Transfers	Released By	Date/Time	Received By	Date/Time
1	CSM/Pace	8-4-22 14:10	[illegible]	8-10-22 9:50
2				
3				

Comments

Cooler Temperature on Receipt _____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHK BY [illegible]
DISTRIBUTION [illegible]
SUB OUT ☐

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of 1

Submission #: ~~22-18929~~ 22-18927

SHIPPING INFORMATION
Fed Ex ☒ UPS ☐ GSO / GLS ☐ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☒ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☒ Intact? Yes ☒ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: TB Thermometer ID: 337
Temperature: (A) 1.5 °C / (C) 1.4 °C

Date/Time 8/10/22
Analyst Init SMH 9:56

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
~~8oz / 16oz / 32oz~~ JAR 4oz	A	A	A	A	A					
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: PRE Date/Time: 8/10/22 1820
A = Actual / C = Corrected

Rev 23 05/20/22
[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\S...]

Date of Report: 08/23/2022

Lyle Cable

Pace- MN Office
1700 Elm St., Suite 200
Suite 200
Minneapolis, MN 55414

Client Project:	Chevron Wilson Creek Unit 31 R
BCL Project:	10620127
BCL Work Order:	2218927
Invoice ID:	B456685

Enclosed are the results of analyses for samples received by the laboratory on 8/10/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

Table of Contents

Pace Analytical ENVIRONMENTAL SCIENCES

Internal Transfer Chain of Custody

Pace Analytical www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: CO
Cert. Needed: ☐ Yes ☐ No

Workorder: 10620127 **Workorder Name:** Chevron Wilson Creek Unit 31 R **Owner Received Date:** 8/6/2022 **Results Requested By:** 8/22/2022

Report To

Lyle Cable
Pace Analytical Minnesota
1700 Elm Street
Minneapolis, MN 55414
Phone (612)607-1700

Subcontract To

Pace Analytical Bakersfield
4100 Atlas Court
Bakersfield, CA 93313
Phone (661)327-4911

22-18927

JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						7199 Hex Chrome to Bakersfield												LAB USE ONLY
1	Unit 31 B2 -1	PS	8/4/2022 10:00	10620127001	Solid	1						X												
2	Unit 31 B2 N -2	PS	8/4/2022 10:05	10620127002	Solid	1						X												
3	Unit 31 B2 S -3	PS	8/4/2022 10:10	10620127003	Solid	1						X												
4	Unit 31 B2 E -4	PS	8/4/2022 10:15	10620127004	Solid	1						X												
5	Unit 31 B2 W -5	PS	8/4/2022 10:20	10620127005	Solid	1						X												

Transfers	Released By	Date/Time	Received By	Date/Time
1	CSM/Pace	8-4-22 14:10	[illegible]	8-10-22 8:56
2				
3				

Comments

Cooler Temperature on Receipt _____ °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHK BY [illegible] DISTRIBUTION JPM SUB OUT ☐

Monday, August 08, 2022 6:26:46 PM FMT-ALL-C-002rev.00 24March2009 Page 1 of 1

Pace Analytical®
www.pacelabs.com

INTER_LABORATORY WORK ORDER # 10620127
(To be completed by sending lab)

Ship To:
Pace Analytical Bakersfield
4100 Atlas Court
Bakersfield, CA 93313
Phone (661)327-4911

Sending Project No:	10620127
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	08/08/22
REQUESTED COMPLETION DATE:	8/22/2022

22-18928 22-18927

Sending Region	IR10-Minnesota	Sending Project Mgr.	Lyle Cable
Receiving Region	S870	External Client	Entrada, Inc.
State of Sample Origin	CO	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units Standard Report Wet or Dry Weight? ☐ IRWO Lab Need to run? Cert. Needed

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
7199 Hex Chrome to Bakersfield	JGFU	5	Unpreserved	5	$70.00	$350.00
					TOTAL	$350.00

Special Requirements: PAN SMESPAR (1689)

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
Metals	20	$350.00	$280.00	$70.00
* Custom Revenue Allocation	TOTAL	$350.00	$280.00	$70.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Monday, August 08, 2022 6:26:47 PM FMT-ALL-C-001 rev.00 24March2009 Page 1 of 1

Pace Analytical®
ENVIRONMENTAL SCIENCES

Chain of Custody and Cooler Receipt Form for 2218927 Page 3 of 3

PACE ANALYTICAL COOLER RECEIPT FORM Page 1 Of 1

Submission #: ~~22-18929~~ 22-18927

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☒ UPS ☐ GSO / GLS ☐ Hand Delivery ☐ Pace Lab Field Service ☐ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☒ NO ☐ (W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☒ Intact? Yes ☒ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☐ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: TB Thermometer ID: 337 Date/Time 8/10/22

Temperature: (A) 1.5 °C / (C) 1.4 °C Analyst Init SMH 9:56

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{6+}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
~~8oz / 16oz / 32oz~~ JAR 4oz	A	A	A	A	A					
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: PCK Date/Time: 8/10/22 13:20

A = Actual / C = Corrected

Rev 23 05/20/22

[S:\WPDocs\VeraPerfect\LAB_DOCS\FORMS\SAMREC rev 28]

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2218927-01	**COC Number:**	---	**Receive Date:**	08/10/2022 09:56
	Project Number:	---	**Sampling Date:**	08/04/2022 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Unit 31 B2	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2218927-02	**COC Number:**	---	**Receive Date:**	08/10/2022 09:56
	Project Number:	---	**Sampling Date:**	08/04/2022 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Unit 31 B2 N	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2218927-03	**COC Number:**	---	**Receive Date:**	08/10/2022 09:56
	Project Number:	---	**Sampling Date:**	08/04/2022 10:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Unit 31 B2 S	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2218927-04	**COC Number:**	---	**Receive Date:**	08/10/2022 09:56
	Project Number:	---	**Sampling Date:**	08/04/2022 10:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Unit 31 B2 E	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2218927-05	**COC Number:**	---	**Receive Date:**	08/10/2022 09:56
	Project Number:	---	**Sampling Date:**	08/04/2022 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Unit 31 B2 W	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

BCL Sample ID: 2218927-01 | **Client Sample Name:** Unit 31 B2, 8/4/2022 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Total Hexavalent Chromium	**0.48**	**mg/kg**	**1.0**	**0.30**	**EPA-7199**	ND	**J**	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-7199	08/15/22 07:00	08/17/22 16:29	KB1	IC-4	0.980	B146616	EPA 3060A

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

BCL Sample ID: 2218927-02 | **Client Sample Name:** Unit 31 B2 N, 8/4/2022 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Total Hexavalent Chromium	**0.33**	**mg/kg**	**1.0**	**0.30**	**EPA-7199**	ND	**J**	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-7199	08/15/22 07:00	08/17/22 17:27	KB1	IC-4	0.976	B146616	EPA 3060A

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

BCL Sample ID: 2218927-03 | **Client Sample Name:** Unit 31 B2 S, 8/4/2022 10:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Total Hexavalent Chromium	**0.32**	**mg/kg**	**1.0**	**0.30**	**EPA-7199**	ND	**J**	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-7199	08/15/22 07:00	08/17/22 17:37	KB1	IC-4	0.977	B146616	EPA 3060A

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

BCL Sample ID: 2218927-04 | **Client Sample Name:** Unit 31 B2 E, 8/4/2022 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Total Hexavalent Chromium	**0.33**	**mg/kg**	**1.0**	**0.30**	**EPA-7199**	ND	**J**	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-7199	08/15/22 07:00	08/17/22 18:05	KB1	IC-4	0.965	B146616	EPA 3060A

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

BCL Sample ID: 2218927-05 | **Client Sample Name:** Unit 31 B2 W, 8/4/2022 10:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Total Hexavalent Chromium	**0.41**	**mg/kg**	**1.0**	**0.30**	**EPA-7199**	ND	**J**	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-7199	08/15/22 07:00	08/17/22 18:15	KB1	IC-4	0.983	B146616	EPA 3060A

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B146616						
Total Hexavalent Chromium	B146616-BLK1	ND	mg/kg	1.0	0.30	

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B146616										
Total Hexavalent Chromium	B146616-BS1	LCS	38.060	40.000	mg/kg	95.2		80 - 120		

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B146616	Used client sample: Y - Description: Unit 31 B2, 08/04/2022 10:00										
Total Hexavalent Chromium	DUP	2218927-01	0.48002	0.45975		mg/kg	4.3		20		J
	MS	2218927-01	0.48002	36.616	39.667	mg/kg		91.1		75 - 125	
	MSD	2218927-01	0.48002	35.897	39.262	mg/kg	2.0	90.2	20	75 - 125	

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/23/2022 8:20 Project: 10620127 Project Number: Chevron Wilson Creek Unit 31 R Project Manager: Lyle Cable

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

August 29, 2022

Tim Dobransky
Entrada
330 Grand Ave
Suite C
Grand Junction, CO 81501

RE: Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

Dear Tim Dobransky:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,

Lyle Cable
lyle.cable@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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SAMPLE SUMMARY

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10621022001	**Unit 31 SW3**	Solid	08/10/22 12:20	08/12/22 08:50

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SAMPLE ANALYTE COUNT

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10621022001	**Unit 31 SW3**	EPA 8015D Modified	TT2	4
		EPA 8015C	TM2	2
		EPA 6010D	IP	9
		ASTM D2974	MK4	1
		EPA 8270E by SIM	TWH	17
		EPA 8260D	SB2	9

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

Sample: Unit 31 SW3 **Lab ID: 10621022001** Collected: 08/10/22 12:20 Received: 08/12/22 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3550 Sonication Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**87.7**	mg/kg	14.1	1	08/12/22 13:54	08/16/22 00:45		N2
TPH-DRO (C10-C28)	**36.9**	mg/kg	14.1	1	08/12/22 13:54	08/16/22 00:45		
Surrogates								
o-Terphenyl (S)	95	%.	30-150	1	08/12/22 13:54	08/16/22 00:45	84-15-1	
n-Triacontane (S)	79	%.	30-150	1	08/12/22 13:54	08/16/22 00:45		
8015C GCV GRO	Analytical Method: EPA 8015C Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	9.1	1	08/16/22 15:08	08/19/22 16:09		2M
Surrogates								
a,a,a-Trifluorotoluene (S)	103	%.	53-132	1	08/16/22 15:08	08/19/22 16:09	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.0**	mg/kg	1.3	1	08/15/22 09:54	08/16/22 17:54	7440-38-2	
Barium	**47.3**	mg/kg	0.65	1	08/15/22 09:54	08/16/22 17:54	7440-39-3	
Cadmium	**0.29**	mg/kg	0.20	1	08/15/22 09:54	08/16/22 17:54	7440-43-9	
Copper	**11.6**	mg/kg	0.65	1	08/15/22 09:54	08/16/22 17:54	7440-50-8	
Lead	**13.4**	mg/kg	0.65	1	08/15/22 09:54	08/16/22 17:54	7439-92-1	
Nickel	**9.4**	mg/kg	1.3	1	08/15/22 09:54	08/16/22 17:54	7440-02-0	
Selenium	ND	mg/kg	1.3	1	08/15/22 09:54	08/16/22 17:54	7782-49-2	
Silver	ND	mg/kg	0.65	1	08/15/22 09:54	08/16/22 17:54	7440-22-4	
Zinc	**45.0**	mg/kg	2.6	1	08/15/22 09:54	08/16/22 17:54	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**29.2**	%	0.10	1		08/17/22 15:25		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	83-32-9	
Anthracene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	207-08-9	
Chrysene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	53-70-3	
Fluoranthene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	206-44-0	
Fluorene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	91-57-6	
Naphthalene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	91-20-3	
Pyrene	ND	mg/kg	0.014	1	08/12/22 15:42	08/15/22 17:14	129-00-0	

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ANALYTICAL RESULTS

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

Sample: Unit 31 SW3 **Lab ID: 10621022001** Collected: 08/10/22 12:20 Received: 08/12/22 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Surrogates								
2-Fluorobiphenyl (S)	77	%.	59-125	1	08/12/22 15:42	08/15/22 17:14	321-60-8	
p-Terphenyl-d14 (S)	97	%.	65-125	1	08/12/22 15:42	08/15/22 17:14	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	mg/kg	0.036	1	08/16/22 13:21	08/17/22 09:48	71-43-2	
Ethylbenzene	ND	mg/kg	0.091	1	08/16/22 13:21	08/17/22 09:48	100-41-4	
Toluene	ND	mg/kg	0.091	1	08/16/22 13:21	08/17/22 09:48	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.091	1	08/16/22 13:21	08/17/22 09:48	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.091	1	08/16/22 13:21	08/17/22 09:48	108-67-8	
Xylene (Total)	ND	mg/kg	0.27	1	08/16/22 13:21	08/17/22 09:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%.	75-125	1	08/16/22 13:21	08/17/22 09:48	460-00-4	1M
Toluene-d8 (S)	97	%.	75-125	1	08/16/22 13:21	08/17/22 09:48	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	08/16/22 13:21	08/17/22 09:48	2199-69-1	

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

QC Batch: 834915
QC Batch Method: EPA 5030
Analysis Method: EPA 8015C
Analysis Description: 8015C GCV Solid
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10621022001

METHOD BLANK: 4421303 Matrix: Solid
Associated Lab Samples: 10621022001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	08/19/22 15:21	
a,a,a-Trifluorotoluene (S)	%.	92	53-132	08/19/22 15:21	

LABORATORY CONTROL SAMPLE & LCSD: 4421304 4421305

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	43.0	43.3	86	87	73-127	1	20	
a,a,a-Trifluorotoluene (S)	%.				96	102	53-132			

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

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

QC Batch: 834728
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10621022001

METHOD BLANK: 4420417
Matrix: Solid
Associated Lab Samples: 10621022001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.92	08/16/22 16:57	
Barium	mg/kg	ND	0.46	08/16/22 16:57	
Cadmium	mg/kg	ND	0.14	08/16/22 16:57	
Copper	mg/kg	ND	0.46	08/16/22 16:57	
Lead	mg/kg	ND	0.46	08/16/22 16:57	
Nickel	mg/kg	ND	0.92	08/16/22 16:57	
Selenium	mg/kg	ND	0.92	08/16/22 16:57	
Silver	mg/kg	ND	0.46	08/16/22 16:57	
Zinc	mg/kg	ND	1.8	08/16/22 16:57	

LABORATORY CONTROL SAMPLE: 4420418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	46.6	43.2	93	80-120	
Barium	mg/kg	46.6	46.1	99	80-120	
Cadmium	mg/kg	46.6	45.4	97	80-120	
Copper	mg/kg	46.6	45.4	97	80-120	
Lead	mg/kg	46.6	44.9	96	80-120	
Nickel	mg/kg	46.6	45.3	97	80-120	
Selenium	mg/kg	46.6	41.4	89	80-120	
Silver	mg/kg	23.3	22.2	95	80-120	
Zinc	mg/kg	46.6	45.1	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4420419 4420420

Parameter	Units	10619844001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	1.4	51	50.2	41.6	41.8	79	80	75-125	0	20	
Barium	mg/kg	46.3	51	50.2	92.2	93.1	90	93	75-125	1	20	
Cadmium	mg/kg	ND	51	50.2	42.1	42.5	82	84	75-125	1	20	
Copper	mg/kg	11.0	51	50.2	58.0	56.8	92	91	75-125	2	20	
Lead	mg/kg	3.0	51	50.2	44.8	44.8	82	83	75-125	0	20	
Nickel	mg/kg	8.1	51	50.2	50.0	50.7	82	85	75-125	1	20	
Selenium	mg/kg	ND	51	50.2	39.2	39.2	76	78	75-125	0	20	
Silver	mg/kg	ND	25.5	25.1	21.5	20.8	84	83	75-125	3	20	
Zinc	mg/kg	17.0	51	50.2	60.1	60.4	85	86	75-125	0	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

QC Batch: 834741
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10621022001

SAMPLE DUPLICATE: 4420443

Parameter	Units	10621016001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.3	15.8	3	30	N2

SAMPLE DUPLICATE: 4420444

Parameter	Units	10621021001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.3	7.5	3	30	N2

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

QC Batch: 834800
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10621022001

METHOD BLANK: 4420638
Matrix: Solid
Associated Lab Samples: 10621022001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	08/17/22 06:54	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	08/17/22 06:54	
Benzene	mg/kg	ND	0.020	08/17/22 06:54	
Ethylbenzene	mg/kg	ND	0.050	08/17/22 06:54	
Toluene	mg/kg	ND	0.050	08/17/22 06:54	
Xylene (Total)	mg/kg	ND	0.15	08/17/22 06:54	
1,2-Dichlorobenzene-d4 (S)	%.	99	75-125	08/17/22 06:54	
4-Bromofluorobenzene (S)	%.	98	75-125	08/17/22 06:54	
Toluene-d8 (S)	%.	99	75-125	08/17/22 06:54	

LABORATORY CONTROL SAMPLE & LCSD: 4420639 4420640

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	1	1.0	1.0	105	103	63-125	1	20	
1,3,5-Trimethylbenzene	mg/kg	1	1.0	1.0	103	103	62-125	0	20	
Benzene	mg/kg	1	1.1	1.0	105	102	58-126	3	20	
Ethylbenzene	mg/kg	1	1.1	1.1	111	106	67-125	4	20	
Toluene	mg/kg	1	1.1	1.0	106	101	57-125	4	20	
Xylene (Total)	mg/kg	3	3.2	3.2	108	106	64-125	2	20	
1,2-Dichlorobenzene-d4 (S)	%.				101	100	75-125			
4-Bromofluorobenzene (S)	%.				98	98	75-125			
Toluene-d8 (S)	%.				97	98	75-125			

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

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QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

QC Batch: 834139
QC Batch Method: EPA 3550 Sonication
Analysis Method: EPA 8015D Modified
Analysis Description: 8015D Solid GCSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10621022001

METHOD BLANK: 4417647
Matrix: Solid
Associated Lab Samples: 10621022001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	10.0	08/15/22 22:09	
n-Triacontane (S)	%.	95	30-150	08/15/22 22:09	
o-Terphenyl (S)	%.	90	30-150	08/15/22 22:09	

LABORATORY CONTROL SAMPLE: 4417648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	50	44.9	90	65-125	
n-Triacontane (S)	%.			86	30-150	
o-Terphenyl (S)	%.			92	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417649 4417650

Parameter	Units	10620968001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	ND	60.8	60.8	46.9	48.1	75	77	30-130	2	30	
n-Triacontane (S)	%.						80	95	30-150			
o-Terphenyl (S)	%.						64	74	30-150			

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

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

QC Batch: 834140
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10621022001

METHOD BLANK: 4417651
Matrix: Solid
Associated Lab Samples: 10621022001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.010	08/15/22 11:47	
2-Methylnaphthalene	mg/kg	ND	0.010	08/15/22 11:47	
Acenaphthene	mg/kg	ND	0.010	08/15/22 11:47	
Anthracene	mg/kg	ND	0.010	08/15/22 11:47	
Benzo(a)anthracene	mg/kg	ND	0.010	08/15/22 11:47	
Benzo(a)pyrene	mg/kg	ND	0.010	08/15/22 11:47	
Benzo(b)fluoranthene	mg/kg	ND	0.010	08/15/22 11:47	
Benzo(k)fluoranthene	mg/kg	ND	0.010	08/15/22 11:47	
Chrysene	mg/kg	ND	0.010	08/15/22 11:47	
Dibenz(a,h)anthracene	mg/kg	ND	0.010	08/15/22 11:47	
Fluoranthene	mg/kg	ND	0.010	08/15/22 11:47	
Fluorene	mg/kg	ND	0.010	08/15/22 11:47	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	08/15/22 11:47	
Naphthalene	mg/kg	ND	0.010	08/15/22 11:47	
Pyrene	mg/kg	ND	0.010	08/15/22 11:47	
2-Fluorobiphenyl (S)	%.	75	59-125	08/15/22 11:47	
p-Terphenyl-d14 (S)	%.	88	65-125	08/15/22 11:47	

LABORATORY CONTROL SAMPLE: 4417652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.1	0.073	73	50-125	
2-Methylnaphthalene	mg/kg	0.1	0.074	74	55-125	
Acenaphthene	mg/kg	0.1	0.075	75	60-125	
Anthracene	mg/kg	0.1	0.082	82	62-125	
Benzo(a)anthracene	mg/kg	0.1	0.081	81	64-125	
Benzo(a)pyrene	mg/kg	0.1	0.083	83	64-125	
Benzo(b)fluoranthene	mg/kg	0.1	0.089	89	65-125	
Benzo(k)fluoranthene	mg/kg	0.1	0.085	85	66-125	
Chrysene	mg/kg	0.1	0.082	82	66-125	
Dibenz(a,h)anthracene	mg/kg	0.1	0.081	81	67-125	
Fluoranthene	mg/kg	0.1	0.085	85	65-125	
Fluorene	mg/kg	0.1	0.079	79	60-125	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.083	83	64-125	
Naphthalene	mg/kg	0.1	0.073	73	48-125	
Pyrene	mg/kg	0.1	0.085	85	68-125	
2-Fluorobiphenyl (S)	%.			77	59-125	
p-Terphenyl-d14 (S)	%.			90	65-125	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417653 4417654

Parameter	Units	10620964001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	ND	0.11	0.11	0.085	0.086	75	76	60-125	1	30	
2-Methylnaphthalene	mg/kg	ND	0.11	0.11	0.087	0.088	77	77	59-125	0	30	
Acenaphthene	mg/kg	0.028	0.11	0.11	0.094	0.091	58	56	70-125	2	30	M1
Anthracene	mg/kg	0.11	0.11	0.11	0.11	0.11	0	-1	67-125	1	30	M1
Benzo(a)anthracene	mg/kg	0.42	0.11	0.11	0.18	0.17	-212	-221	64-125	6	30	M1
Benzo(a)pyrene	mg/kg	0.44	0.11	0.11	0.20	0.19	-220	-225	40-137	3	30	M1
Benzo(b)fluoranthene	mg/kg	0.67	0.11	0.11	0.27	0.26	-356	-367	30-150	5	30	M1
Benzo(k)fluoranthene	mg/kg	0.26	0.11	0.11	0.17	0.16	-73	-84	48-133	7	30	M1
Chrysene	mg/kg	0.52	0.11	0.11	0.22	0.20	-268	-283	62-125	8	30	M1
Dibenz(a,h)anthracene	mg/kg	0.067	0.11	0.11	0.10	0.10	30	29	57-125	2	30	M1
Fluoranthene	mg/kg	1.1	0.11	0.11	0.28	0.25	-747	-776	60-125	12	30	M1
Fluorene	mg/kg	0.053	0.11	0.11	0.10	0.097	42	39	53-125	3	30	M1
Indeno(1,2,3-cd)pyrene	mg/kg	0.32	0.11	0.11	0.18	0.18	-124	-129	49-130	3	30	M1
Naphthalene	mg/kg	ND	0.11	0.11	0.076	0.080	68	71	46-125	5	30	
Pyrene	mg/kg	0.92	0.11	0.11	0.26	0.23	-585	-606	58-125	9	30	M1
2-Fluorobiphenyl (S)	%.						81	80	59-125			
p-Terphenyl-d14 (S)	%.						92	91	65-125			

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

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 834933

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 835255

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M Preserved from glass jar with headspace outside of 48 hours from collection.

2M Preserved from glass jar with headspace outside of 48 hours from collection.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Chevron Wilson Creek Unit 31 P
Pace Project No.: 10621022

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10621022001	**Unit 31 SW3**	EPA 3550 Sonication	834139	EPA 8015D Modified	834679
10621022001	**Unit 31 SW3**	EPA 5030	834915	EPA 8015C	834933
10621022001	**Unit 31 SW3**	EPA 3050B	834728	EPA 6010D	834928
10621022001	**Unit 31 SW3**	ASTM D2974	834741		
10621022001	**Unit 31 SW3**	EPA 3546	834140	EPA 8270E by SIM	834546
10621022001	**Unit 31 SW3**	EPA 5035/5030B	834800	EPA 8260D	835255

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: **Chevron Wilson Creek Unit 31 P&A**

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project #

Lab Project #

L #

Table #

Collected by (print): **T Dobransky**

Site/Facility ID #

P.O. #

Acctnum:
Template:
Prelogin:
TSR:
PB:

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 VOCs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	Soil TPH Table 915 (GRO/DRO/ORO)	SAR/EC/pH	Table 915 BTEX, TMBs				Remarks	Sample # (lab only)
Unit 31 SW3	Grab	SS	5'	8/10/22	12:20	2	X	X	X		X		X					001

WO#: 10621022
10621022

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Rush Please

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	
	8/11/22	1800			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.0 °C Bottles Received:	If preservation required by Login: Date/Time
	8/12/22	1100	PACE		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/12/22 Time: 8:50	Hold: / Condition: NCF / OK

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)
	Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: Entrada Consulting Group

Project #:

WO#: 10621022

PM: LKC Due Date: 08/26/22

CLIENT: Entrada

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial

See Exceptions ☐ENV-FRM-MIN4-0142

Tracking Number: 2766 8654 7703

Custody Seal on Cooler/Box Present? ☐Yes ☒No Seals Intact? ☐Yes ☒No Biological Tissue Frozen? ☐Yes ☐No ☒N/A

Packing Material: ☒Bubble Wrap ☒Bubble Bags ☐None ☐Other:_____ Temp Blank? ☒Yes ☐No

Thermometer: ☐T1(0461) ☒T2(1336) ☐T3(0459) ☐T4(0254) ☐T5(0489) ☐T6(0235) ☐T7 (0042) ☐01339252/1710 ☐122639816 ☐140792808 Type of Ice: ☒Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☒No Were All Container Temps Taken? ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 2.0 °C

Correction Factor: TRUE Cooler Temp Corrected w/temp blank: 2.0 °C

Average Corrected Temp (no temp blank only): _____ °C ☐See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other:_____) Date/Initials of Person Examining Contents: JM 8/12/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☒No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☒No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☒ Minneapolis ☐ Virginia				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4. If Fecal: ☐<8 hrs ☐>8hr, <24 hrs, ☐>24 hrs
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____
Rush Turn Around Time Requested?	☒Yes	☐No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used?	☒Yes	☐No		8.
-Pace Containers Used?	☒Yes	☐No		
Containers Intact?	☒Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☐Water ☒Soil ☐Oil ☐Other-	☒Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☒N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐Yes	☐No	☒N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☒N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐Yes	☐No	☒N/A	
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☒N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☒N/A	
Trip Blank Present?	☐Yes	☐No	☒N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Lyle Cable **Date:** 8/12/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e.,, out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: 3M (1)

22-19512

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: CO
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 8/12/2022 Results Requested By: 8/26/2022

Workorder: 10621022 **Workorder Name:** Chevron Wilson Creek Unit 31 P

Report To

Lyle Cable
Pace Analytical Minnesota
1700 Elm Street
Minneapolis, MN 55414
Phone (612)607-1700

Subcontract To

Pace Analytical Bakersfield
4100 Atlas Court
Bakersfield, CA 93313
Phone (661)327-4911

JGCU

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	7199 Hex Chrome to Pace Bakersfield	LAB USE ONLY
1	Unit 31 SW3	PS	8/10/2022 12:20	10621022001	Solid	1	X	-1
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	CSM/Pace	8-15-22 9:55	[illegible]	8-16-22 10:26
2				
3				

Comments

Cooler Temperature on Receipt °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY PK
DISTRIBUTION JMM
SUB-OUT ☐

Pace Analytical®
www.pacelabs.com

22-19512

INTER_LABORATORY WORK ORDER # 10621022
(To be completed by sending lab)

Ship To:
Pace Analytical Bakersfield
4100 Atlas Court
Bakersfield, CA 93313
Phone (661)327-4911

Sending Project No:	10621022
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	08/12/22
REQUESTED COMPLETION DATE:	**8/26/2022**

Sending Region	IR10-Minnesota	Sending Project Mgr.	Lyle Cable
Receiving Region	S870	External Client	Entrada, Inc.
State of Sample Origin	CO	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units Standard Report Wet or Dry Weight? ____ ☐ IRWO Lab Need to run? Cert. Needed ____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
7199 Hex Chrome to Pace Bakersfield	JGCU	1	Unpreserved	1	$70.00	$70.00
					TOTAL	$70.00

Special Requirements: PAN SMESPAR (1689)

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
Metals	20	$70.00	$56.00	$14.00
	TOTAL	$70.00	$56.00	$14.00

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

PACE ANALYTICAL

COOLER RECEIPT FORM

Page 1 Of

Submission #: 22-19512

SHIPPING INFORMATION
Fed Ex ☒ UPS ☐ GSO / GLS ☐ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☒ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☒ Intact? Yes ☒ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: TB Thermometer ID: 337
Temperature: (A) 1.6 °C / (C) 1.5 °C

Date/Time 8-16-22
Analyst Init SMH 10:26

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A									
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: JCD Date/Time: 8/17/22 0950
A = Actual / C = Corrected

Date of Report: 08/29/2022

Lyle Cable

Pace- MN Office
1700 Elm St., Suite 200
Suite 200
Minneapolis, MN 55414

Client Project:	Chevron Wilson Creek Unit 31 P
BCL Project:	10621022
BCL Work Order:	2219512
Invoice ID:	B457168

Enclosed are the results of analyses for samples received by the laboratory on 8/16/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

Table of Contents

Pace Analytical ENVIRONMENTAL SCIENCES

Internal Transfer Chain of Custody

22-19512

Pace Analytical www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: CO
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 8/12/2022 Results Requested By: 8/26/2022

Workorder: 10621022 Workorder Name: Chevron Wilson Creek Unit 31 P

Report To

Lyle Cable
Pace Analytical Minnesota
1700 Elm Street
Minneapolis, MN 55414
Phone (612)607-1700

Subcontract To

Pace Analytical Bakersfield
4100 Atlas Court
Bakersfield, CA 93313
Phone (661)327-4911

JGCU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 7199 Hex Chrome to Pace Bakersfield													LAB USE ONLY
1	Unit 31 SW3	PS	8/10/2022 12:20	10621022001	Solid	1						X													-1
2																									
3																									
4																									
5																									

Transfers	Released By	Date/Time	Received By	Date/Time
1	CSM/Pace	8-15-22 9:55	[signature]	8-16-22 10:26
2				
3				

Comments

Cooler Temperature on Receipt ____ °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

SHORT HOLDING TIME
Cr+6 NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY PK
DISTRIBUTION JMN
SUB-OUT ☐

Friday, August 12, 2022 12:59:04 PM

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

Pace Analytical®
www.pacelabs.com

22-19512

INTER_LABORATORY WORK ORDER # 10621022
(To be completed by sending lab)

Ship To:
Pace Analytical Bakersfield
4100 Atlas Court
Bakersfield, CA 93313
Phone (661)327-4911

Sending Project No:	10621022
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	08/12/22
REQUESTED COMPLETION DATE:	8/26/2022

Sending Region	IR10-Minnesota	Sending Project Mgr.	Lyle Cable
Receiving Region	S870	External Client	Entrada, Inc.
State of Sample Origin	CO	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units Standard Report Wet or Dry Weight? ☐ IRWO Lab Need to run? Cert. Needed

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
7199 Hex Chrome to Pace Bakersfield	JGCU	1	Unpreserved	1	$70.00	$70.00
					TOTAL	$70.00

Special Requirements: PAN SMESPAR (1689)

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
Metals	20	$70.00	$56.00	$14.00
	TOTAL	$70.00	$56.00	$14.00

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes [X] No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

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ENVIRONMENTAL SCIENCES

Chain of Custody and Cooler Receipt Form for 2219512 Page 3 of 3

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of

Submission #: 2219512

SHIPPING INFORMATION
Fed Ex ☒ UPS ☐ GSO / GLS ☐ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☒ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☒ Intact? Yes ☒ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: TB Thermometer ID: 337
Temperature: (A) 1.6 °C / (C) 1.5 °C

Date/Time 8-16-22
Analyst Init SMH 10:26

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A									
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: JCD Date/Time: 8/17/22 0450
A = Actual / C = Corrected

Rev 23 05/20/22
(S:\WPDocs\Word\Perfect\LAB_DOCS\FORMS\SAMREC rev 20)

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/29/2022 0:33 Project: 10621022 Project Number: Chevron Wilson Creek Unit 31 P Project Manager: Lyle Cable

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2219512-01	**COC Number:**	---	**Receive Date:**	08/16/2022 10:26
	Project Number:	---	**Sampling Date:**	08/10/2022 12:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Unit 31 SW3	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/29/2022 0:33 Project: 10621022 Project Number: Chevron Wilson Creek Unit 31 P Project Manager: Lyle Cable

Total Concentrations (TTLC)

BCL Sample ID: 2219512-01 | **Client Sample Name:** Unit 31 SW3, 8/10/2022 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Total Hexavalent Chromium	**0.99**	**mg/kg**	**1.0**	**0.30**	**EPA-7199**	ND	**J**	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-7199	08/22/22 07:15	08/25/22 14:55	SAV	IC-4	0.986	B147232	EPA 3060A

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/29/2022 0:33 Project: 10621022 Project Number: Chevron Wilson Creek Unit 31 P Project Manager: Lyle Cable

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B147232						
Total Hexavalent Chromium	B147232-BLK1	ND	mg/kg	1.0	0.30	

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/29/2022 0:33 Project: 10621022 Project Number: Chevron Wilson Creek Unit 31 P Project Manager: Lyle Cable

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B147232										
Total Hexavalent Chromium	B147232-BS1	LCS	41.334	40.000	mg/kg	103		80 - 120		

Pace Analytical
ENVIRONMENTAL SCIENCES

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/29/2022 0:33 Project: 10621022 Project Number: Chevron Wilson Creek Unit 31 P Project Manager: Lyle Cable

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B147232	Used client sample: N										
Total Hexavalent Chromium	DUP	**2219507-01**	**0.74468**	**0.50313**		**mg/kg**	**38.7**		**20**		**J,A02**
	MS	**2219507-01**	**0.74468**	**38.157**	**38.805**	**mg/kg**		**96.4**		**75 - 125**	
	MSD	**2219507-01**	**0.74468**	**38.687**	**39.246**	**mg/kg**	**1.4**	**96.7**	**20**	**75 - 125**	

Pace- MN Office 1700 Elm St., Suite 200 Suite 200 Minneapolis, MN 55414	**Reported:** 08/29/2022 0:33 Project: 10621022 Project Number: Chevron Wilson Creek Unit 31 P Project Manager: Lyle Cable

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.

ANALYTICAL SUMMARY REPORT

August 19, 2022

Entrada Consulting Group
1843 Sunlight Dr.
Longmont, CO 80504-2090

Work Order: H22080435 Quote ID: H15424

Project Name: Chevron Wilson Creek Unit 31

Energy Laboratories Inc Helena MT received the following 1 sample for Entrada Consulting Group on 8/12/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H22080435-001	Unit 31 SW3 (5')	08/10/22 12:20	08/12/22	Soil	Metals, CACL2 Extractable Metals, Saturated Paste Conductivity, Saturated Paste Extract pH, Saturated Paste CaCl2 Hot Water Soil Extraction ASA25-9 Saturated Paste Extraction ASA Sodium Adsorption Ratio Soil Preparation USDA1

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Unit 31
Lab ID: H22080435-001
Client Sample ID: Unit 31 SW3 (5')

Report Date: 08/19/22
Collection Date: 08/10/22 12:20
DateReceived: 08/12/22
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASA10-3	08/16/22 09:27 / sah
SATURATED PASTE EXTRACT							
Conductivity, sat. paste	0.2	mmhos/cm		0.1		ASA10-3	08/16/22 12:57 / sah
Calcium, sat. paste	1.26	meq/L		0.05		SW6010B	08/18/22 22:25 / stp
Magnesium, sat. paste	0.70	meq/L		0.08		SW6010B	08/18/22 22:25 / stp
Sodium, sat. paste	0.27	meq/L		0.04		SW6010B	08/18/22 22:25 / stp
Sodium Adsorption Ratio (SAR)	0.3	unitless		0.1		USDA20b	08/18/22 13:58 / stp
CACL2 EXTRACTABLE METALS							
Boron	ND	mg/kg		0.1		SW6010B	08/18/22 00:02 / stp

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22080435 **Report Date:** 08/19/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA10-3									Analytical Run: SOIL EC_220816A	
Lab ID: ICV_1_220815_1		Initial Calibration Verification Standard							08/16/22 12:44	
Conductivity, sat. paste		1.40	mmhos/cm	0.10	99	90	110			
Lab ID: CCV_1_220815_1		Continuing Calibration Verification Standard							08/16/22 12:45	
Conductivity, sat. paste		4.74	mmhos/cm	0.10	95	90	110			
Lab ID: CCV1_1_220815_1		Continuing Calibration Verification Standard							08/16/22 12:46	
Conductivity, sat. paste		1.04	mmhos/cm	0.10	104	90	110			
Method: ASA10-3										Batch: 62828
Lab ID: MB-62828		Method Blank				Run: SOIL EC_220816A			08/16/22 12:47	
Conductivity, sat. paste		ND	mmhos/cm	0.05						
Lab ID: LCS-62828		Laboratory Control Sample				Run: SOIL EC_220816A			08/16/22 12:50	
Conductivity, sat. paste		3.84	mmhos/cm	0.10	99	80	120			
Lab ID: H22080437-001ADUP		Sample Duplicate				Run: SOIL EC_220816A			08/16/22 12:58	
Conductivity, sat. paste		3.02	mmhos/cm	0.10				0.4	20	
Method: ASA10-3									al Run: SOIL PH METER - ORION A211_220816A	
Lab ID: ICV_1_220815_1		Initial Calibration Verification Standard							08/16/22 09:10	
pH, sat. paste		7.04	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV_1_220815_1		Continuing Calibration Verification Standard							08/16/22 09:10	
pH, sat. paste		7.04	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV1_1_220815_1		Continuing Calibration Verification Standard							08/16/22 09:11	
pH, sat. paste		4.01	s.u.	0.10	100	97.5	102.5			
Method: ASA10-3										Batch: 62828
Lab ID: LCS-62828		Laboratory Control Sample				Run: SOIL PH METER - ORION A2			08/16/22 09:15	
pH, sat. paste		8.07	s.u.	0.10	101	95	105			
Lab ID: H22080437-001ADUP		Sample Duplicate				Run: SOIL PH METER - ORION A2			08/16/22 09:29	
pH, sat. paste		7.68	s.u.	0.10				0.3	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22080435 **Report Date:** 08/19/22

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**SW6010B**									Analytical Run: ICP2-HE_220817B	
Lab ID:	**ICV**		Initial Calibration Verification Standard							08/17/22 13:03	
Boron			0.796	mg/L	0.10	99	90	110			
Lab ID:	**CCV**		Continuing Calibration Verification Standard							08/17/22 13:07	
Boron			2.52	mg/L	0.10	101	90	110			
Lab ID:	**ICSA**		Interference Check Sample A							08/17/22 13:18	
Boron			-0.00229	mg/L	0.10		0	0			
Lab ID:	**ICSAB**		Interference Check Sample AB							08/17/22 13:22	
Boron			0.991	mg/L	0.10	99	80	120			
Method:	**SW6010B**										Batch: 62829
Lab ID:	**MB-62829**		Method Blank				Run: ICP2-HE_220817B			08/17/22 22:39	
Boron			ND	mg/kg	0.004						
Lab ID:	**LCS-62829**		Laboratory Control Sample				Run: ICP2-HE_220817B			08/17/22 22:46	
Boron			0.510	mg/kg	0.10	79	70	130			
Lab ID:	**H22080424-003AMS2**		Sample Matrix Spike				Run: ICP2-HE_220817B			08/17/22 22:58	
Boron			4.15	mg/kg	0.10	101	75	125			
Lab ID:	**H22080424-003AMSD**		Sample Matrix Spike Duplicate				Run: ICP2-HE_220817B			08/17/22 23:01	
Boron			4.33	mg/kg	0.10	106	75	125	4.4	20	
Lab ID:	**H22080438-001Adup**		Sample Duplicate				Run: ICP2-HE_220817B			08/18/22 00:14	
Boron			0.140	mg/kg	0.10				8.8	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22080435 **Report Date:** 08/19/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Analytical Run: ICP2-HE_220817C	
Lab ID: ICV	3	Initial Calibration Verification Standard							08/18/22 16:46	
Calcium		40.2	mg/L	1.0	101	90	110			
Magnesium		40.2	mg/L	1.0	100	90	110			
Sodium		41.4	mg/L	1.0	104	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard							08/18/22 16:50	
Calcium		25.8	mg/L	1.0	103	90	110			
Magnesium		25.5	mg/L	1.0	102	90	110			
Sodium		26.2	mg/L	1.0	105	90	110			
Lab ID: ICSA	3	Interference Check Sample A							08/18/22 17:01	
Calcium		479	mg/L	1.0	96	80	120			
Magnesium		449	mg/L	1.0	90	80	120			
Sodium		0.0809	mg/L	1.0		0	0			
Lab ID: ICSAB	3	Interference Check Sample AB							08/18/22 17:05	
Calcium		486	mg/L	1.0	97	80	120			
Magnesium		451	mg/L	1.0	90	80	120			
Sodium		20.8	mg/L	1.0	104	80	120			
Method: SW6010B										Batch: 62828
Lab ID: MB-62828	6	Method Blank				Run: ICP2-HE_220817C			08/18/22 21:31	
Calcium		ND	mg/L	0.1						
Magnesium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.02						
Calcium, sat. paste		ND	meq/L	0.007						
Magnesium, sat. paste		ND	meq/L	0.002						
Sodium, sat. paste		ND	meq/L	0.0009						
Lab ID: LFB-62828	6	Laboratory Fortified Blank				Run: ICP2-HE_220817C			08/18/22 21:35	
Calcium		53.3	mg/L	1.0	107	80	120			
Magnesium		51.8	mg/L	1.0	104	80	120			
Sodium		50.7	mg/L	1.0	101	80	120			
Calcium, sat. paste		2.66	meq/L	0.050	107	80	120			
Magnesium, sat. paste		4.26	meq/L	0.082	104	80	120			
Sodium, sat. paste		2.20	meq/L	0.043	101	80	120			
Lab ID: LCS-62828	6	Laboratory Control Sample				Run: ICP2-HE_220817C			08/18/22 21:39	
Calcium		333	mg/L	1.0	110	70	130			
Magnesium		121	mg/L	1.0	102	70	130			
Sodium		559	mg/L	1.0	110	70	130			
Calcium, sat. paste		16.6	meq/L	0.050	110	70	130			
Magnesium, sat. paste		9.94	meq/L	0.082	102	70	130			
Sodium, sat. paste		24.3	meq/L	0.043	110	70	130			
Lab ID: H22080066-001AMS2	6	Sample Matrix Spike				Run: ICP2-HE_220817C			08/18/22 22:02	
Calcium		802	mg/L	1.0	114	70	130			
Magnesium		448	mg/L	1.0	110	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22080435 **Report Date:** 08/19/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 62828
Lab ID: H22080066-001AMS2	6	Sample Matrix Spike				Run: ICP2-HE_220817C				08/18/22 22:02
Sodium		1730	mg/L	1.0		70	130			A
Calcium, sat. paste		40.0	meq/L	0.050	114	70	130			
Magnesium, sat. paste		36.9	meq/L	0.082	110	70	130			
Sodium, sat. paste		75.3	meq/L	0.043		70	130			A
Lab ID: H22080437-001Adup	6	Sample Duplicate				Run: ICP2-HE_220817C				08/18/22 22:32
Calcium		450	mg/L	1.0				1.1	30	
Magnesium		266	mg/L	1.0				1.2	30	
Sodium		61.2	mg/L	1.0				1.3	30	
Calcium, sat. paste		22.5	meq/L	0.050				1.1	30	
Magnesium, sat. paste		21.9	meq/L	0.082				1.2	30	
Sodium, sat. paste		2.66	meq/L	0.043				1.3	30	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

A - Analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22080435 **Report Date:** 08/19/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: USDA20b										Batch: 62828
Lab ID: H22080437-001ADUP		Sample Duplicate				Run: SOIL CALC_220819B			08/18/22 13:58	
Sodium Adsorption Ratio (SAR)		0.560	unitless	0.10				0.0	30	
Lab ID: LCS-62828		Laboratory Control Sample				Run: SOIL CALC_220819B			08/18/22 13:58	
Sodium Adsorption Ratio (SAR)		6.67	unitless	0.10	111	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Entrada Consulting Group

H22080435

Login completed by: Wanda Johnson
Reviewed by: spester
Reviewed Date: 8/16/2022

Date Received: 8/12/2022
Received by: amh
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	5.6°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None

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Chain of Custody & Analytical Request Record

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Page 1 of 1

Account Information *(Billing information)*

Company/Name	Entrada Consulting Group
Contact	Tim Dobransky
Phone	970.270.2986
Mailing Address	330 Grand Avenue, Suite C
City, State, Zip	Grand Junction, CO 81501
Email	tdobransky@entradainc.com
Receive Invoice	☐Hard Copy ☐Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	
Quote	
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	
Contact	
Phone	
Mailing Address	
City, State, Zip	
Email	
Receive Report	☐Hard Copy ☐Email

Special Report/Formats:
☐ LEVEL IV ☐NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

Please rush and report on 5 day TAT

Project Information

Project Name, PWSID, Permit, etc.	Chevron Wilson Creek Unit 31
Sampler Name	Dobransky
Sampler Phone	970.270.2986
Sample Origin State	CO
EPA/State Compliance	☐ Yes ☒ No

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W- Water
S - Soils/ Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

Analysis Requested

	Sample Identification *(Name, Location, Interval, etc.)*	Collection Date	Collection Time	Number of Containers	Matrix *(See Codes Above)*	EC -by saturated paste method	SAR - by saturated paste method	pH - by saturated paste method	boron - hot water soluble soil extract						See Attached	RUSH TAT	ELI LAB ID *Laboratory Use Only*
1	Unit 31 SW3 (5")	08/10/2022	12:20 pm	1	S	✓	✓	✓	✓							X	H22080435
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Dobransky	8/11/22 1800				
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				A Sargent	8/12/22 937	A Sargent

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number *(cash/check only)*
FedEx Exp.	4	Y N C B	Y N	5.6 °C	Y N	Y N	CC Cash Check_____	$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ANALYTICAL SUMMARY REPORT

September 02, 2022

Entrada Consulting Group
1843 Sunlight Dr.
Longmont, CO 80504-2090

Work Order: H22080845 Quote ID: H15424

Project Name: Chevron Wilson Creek Unit 31

Energy Laboratories Inc Helena MT received the following 2 samples for Entrada Consulting Group on 8/26/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H22080845-001	Unit 31 BW (18')	08/25/22 10:15	08/26/22	Soil	pH, Saturated Paste Saturated Paste Extraction ASA Soil Preparation USDA1
H22080845-002	Unit 31 B2 S (16')	08/25/22 0:00	08/26/22	Soil	pH, Saturated Paste Saturated Paste Extraction ASA

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Unit 31
Lab ID: H22080845-001
Client Sample ID: Unit 31 BW (18')

Report Date: 09/02/22
Collection Date: 08/25/22 10:15
DateReceived: 08/26/22
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.6	s.u.		0.1		ASA10-3	08/30/22 10:43 / jjp

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Unit 31
Lab ID: H22080845-002
Client Sample ID: Unit 31 B2 S (16')

Report Date: 09/02/22
Collection Date: 08/25/22
DateReceived: 08/26/22
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.4	s.u.		0.1		ASA10-3	08/30/22 10:44 / jjp

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22080845 **Report Date:** 09/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA10-3							al Run: SOIL PH METER - ORION A211_220831A			
Lab ID: ICV_1_220829_1		Initial Calibration Verification Standard								08/30/22 10:23
pH, sat. paste		7.03	s.u.	0.10	100	98.6	101.4			
Lab ID: CCV_1_220829_1		Continuing Calibration Verification Standard								08/30/22 10:24
pH, sat. paste		7.03	s.u.	0.10	100	98.6	101.4			
Lab ID: CCV1_1_220829_1		Continuing Calibration Verification Standard								08/30/22 10:24
pH, sat. paste		4.02	s.u.	0.10	100	97.5	102.5			
Method: ASA10-3										Batch: 63105
Lab ID: LCS-63105		Laboratory Control Sample				Run: SOIL PH METER - ORION A2				08/30/22 10:26
pH, sat. paste		8.06	s.u.	0.10	101	95	105			
Lab ID: H22080815-010ADUP		Sample Duplicate				Run: SOIL PH METER - ORION A2				08/30/22 10:39
pH, sat. paste		5.54	s.u.	0.10				0.4	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Entrada Consulting Group

H22080845

Login completed by: Wanda Johnson
Reviewed by: spester
Reviewed Date: 9/2/2022

Date Received: 8/26/2022
Received by: rrf
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	2.6°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

Sample time on Unit 31 B2S (16') time on bag states 10:21, used time from COC. wjj 8/26/2022

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Chain of Custody & Analytical Request Record

www.energylab.com

Account Information *(Billing information)*

Company/Name	Entrada Consulting Group
Contact	Tim Dobransky
Phone	970.270.2986
Mailing Address	330 Grand Avenue, Suite C
City, State, Zip	Grand Junction, CO 81501
Email	tdobransky@entradainc.com
Receive Invoice	☐Hard Copy ☐Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	
Quote	
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	
Contact	
Phone	
Mailing Address	
City, State, Zip	
Email	
Receive Report	☐Hard Copy ☐Email

Special Report/Formats:
☐ LEVEL IV ☐NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

Please rush and report on 5 day TAT

Project Information

Project Name, PWSID, Permit, etc.	Chevron Wilson Creek Unit 31
Sampler Name Dobransky	Sampler Phone 970.270.2986
Sample Origin State CO	EPA/State Compliance ☐ Yes ☒ No

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W- Water
S - Soils/ Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

Analysis Requested

	Sample Identification *(Name, Location, Interval, etc.)*	Collection Date	Collection Time	Number of Containers	Matrix *(See Codes Above)*	EC -by saturated paste method	SAR - by saturated paste method	pH - by saturated paste method	boron - hot water soluble soil extract						See Attached	RUSH TAT	ELI LAB ID *Laboratory Use Only*
1	Unit 31 BW (18')	08/25/2022	1015	1	S			✓								X	H22080845
2	Unit 31 B2 S (16')	08/25/2022	1020	1	S			✓								X	
3																	
4																	
5																	
6																	
7																	
8																	
9																	

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

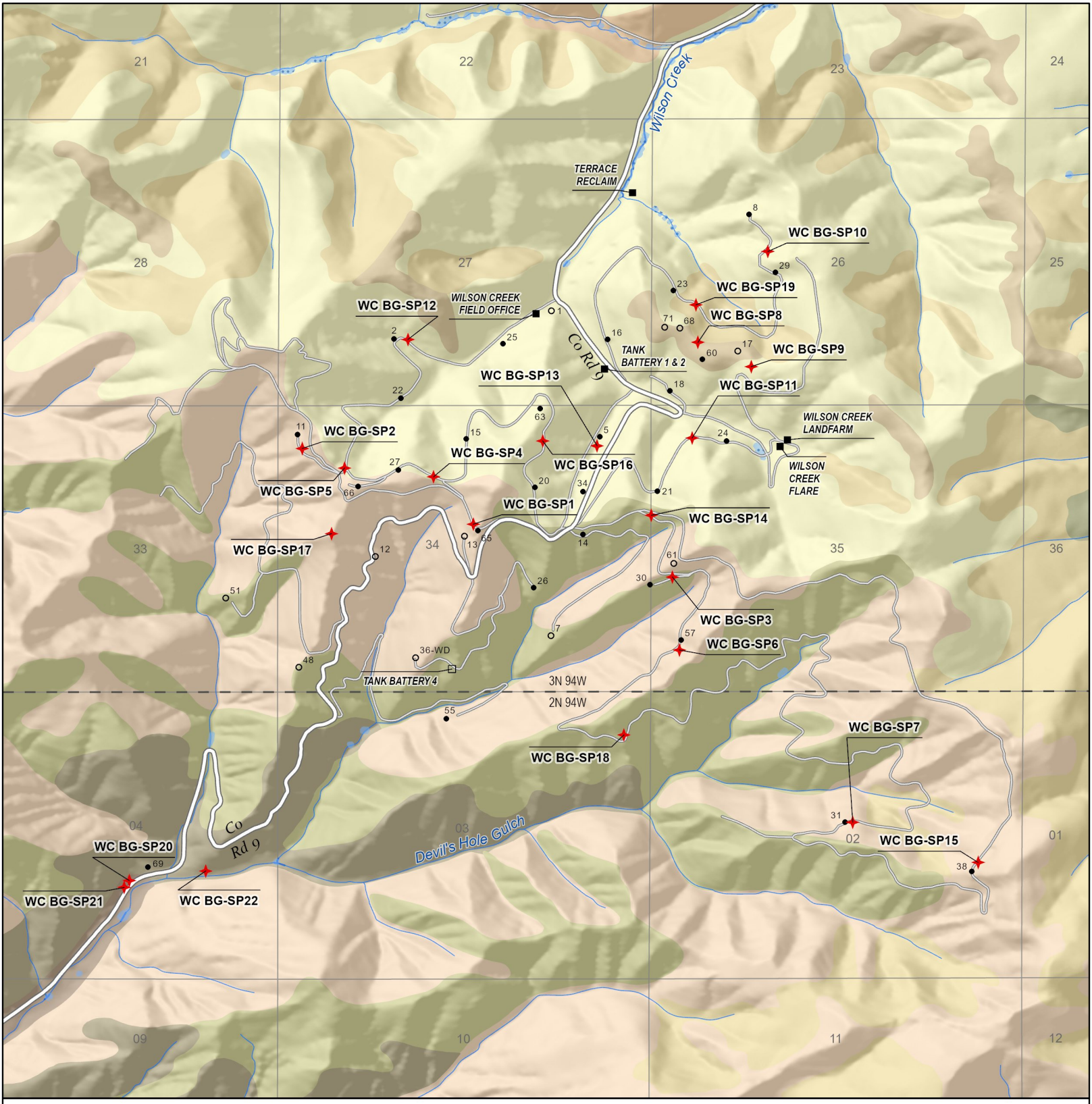
Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Tim Dobransky	8/25/22 1800				
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				DFREY	082622 0940	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number *(cash/check only)*
FEDEX EXP	Y	Y N C B	Y N	2.6 °C	Y N	Y N	CC Cash Check_____	$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

WILSON CREEK BACKGROUND SOIL RESULTS



LEGEND

- Blazon, moist-Rentsac complex, 8 to 65 percent slopes
- Jerry-Thornburgh-Rhone complex, 8 to 65 percent slopes
- Mergel-Redthayne-Dollard complex, 8 to 65 percent slopes
- Owen Creek-Jerry-Burnette loams, 5 to 35 percent slopes
- Rhone-Northwater-Lamphier loams, 3 to 50 percent slopes
- Shawa loam, 3 to 8 percent slopes
- Silas loam, 0 to 8 percent slopes
- Torriorthents-Rock outcrop complex, 15 to 90 percent slopes
- Waybe-Vandamore variant-Rock outcrop complex, 5 to 30 percent slopes

Background Sample

Facility Location

- Existing Facility
- Reclaimed Facility

Well Location

- Reclaimed Site
- Well Site

N W E S

0 0.25 0.5 mi

1 in = 2,400 ft

Project No: 022-042	**Background Soil Sampling Diagram** **NRCS Soils Map** Wilson Creek Field Chevron USA, INC. Rio Blanco County, Colorado	ENTRADA CONSULTING GROUP 330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB			
Date: 10/4/2022			

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY												
Sample ID	WC BG-SP1	WC BG-SP1	WC BG-SP1	WC BG-SP2	WC BG-SP2	WC BG-SP2	WC BG-SP3	WC BG-SP3	WC BG-SP3	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	10"-24"	0-6"	6-12"	12"-24"	0-6"	6-12"	12"-24"			
Sample Type	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil			
Sample Date	8/4/2022	8/4/2022	6/21/2022	8/4/2022	8/4/2022	6/21/2022	8/4/2022	8/10/2022	7/25/2022			
Soil Type	Jerry-Thornburgh-Rhone Complex			Jerry-Thornburgh-Rhone Complex			Mergel-Redthayne-Dollard Complex					
Analytical Parameters										**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals												
Arsenic	2.7	4.1	5.55	3.4	1.4	2.16	3.1	3.6	<1.1	0.68	0.29	mg/kg
Barium	66.6	70.6	94.1	63.3	63.2	107	52.1	69.2	34.3	15,000	82	mg/kg
Cadmium	0.30	0.33	<0.500	0.46	0.44	0.753	0.30	<0.31	<0.16	71	0.38	mg/kg
Chromium, Hexavalent	0.58 J	0.5 J	<1.00	0.34 J	0.43 J	<1.00	<1.00	0.74 J	0.36 J	0.3	0.00067	mg/kg
Copper	10.4	12.0	12.1	16.1	14.9	15.2	14.5	13.6	8.3	3,100	46	mg/kg
Lead	14.2	19.7	18.9	19.5	15.7	17.5	17.3	18.5	16.4	400	14	mg/kg
Nickel	12.3	14.0	15.5	16.4	13.7	21.7	10.1	14.3	4.1	1,500	26	mg/kg
Selenium	<1.1	<2.2	<2.00	<1.5	<1.0	<2.00	<2.0	<2.0	<1.1	390	0.26	mg/kg
Silver	<0.54	<1.1	<1.00	<0.75	<0.51	<1.00	<1.0	<1.0	<0.54	390	0.8	mg/kg
Zinc	47.0	66.0	77.4	74.1	56.0	60.7	56.3	69.9	29.6	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	0.2	0.2	1.44	0.10	0.20	1.33	0.20	0.30	0.30	<6	<6	ratio
Electrical Conductivity (EC)	0.4	0.3	0.0705	0.5000	0.3000	0.320	0.200	0.200	<0.1	<4	<4	mmhos/cm
pH	6.9	6.8	7.38	7.60	7.90	7.68	6.90	6.80	6.70	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.3	0.2	0.333	0.300	0.200	0.311	0.200	0.200	<0.1	2	2	mg/kg
Agronomic Properties												
Physical Characteristics												
Sand	32	36	38	16	26	18	30	36	28	NA	NA	%
Silt	42	32	22	54	48	49	46	32	42	NA	NA	%
Clay	26	32	40	30	26	33	24	32	30	NA	NA	%
Texture	L	CL	C	SiCL	L	SiCL	L	CL	CL	NA	NA	NA
Nutrients												
Phosphorus, Olsen	< 1.0	< 1.0	< 1	2.0	< 1.0	3	1.0	< 1.0	<1.0	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	1.7	3.4	2.2	1.2	0.9	2.0	1.0	1.2	1.1	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	1.0	< 1.0	<1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics												
Cation Exchange Capacity, CEC	18.5 D	20.7 D	19.7	19.4 D	19.6 D	19.6	12.7 D	17.5 D	14.5 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.4	0.3	0.3	0.4	0.3	0.3	0.5	0.4	0.3	NA	NA	%
Potassium, Available	350 D	296 D	275 D	346 D	128 D	198 D	246 D	398 D	199 D	NA	NA	mg/kg
pH, satuarated paste	6.9	6.8	6.4	7.6	7.9	7.5	6.9	6.8	6.7	NA	NA	su
Organic Matter, OM	3.3	1.7	1.5	2.9	3.7	3.4	1.6	1.2	0.8	NA	NA	%
Lime as CaCO3	0.87	0.82	0.86	4.29	9.9	10.7	0.69	0.75	0.62	NA	NA	%
Chloride, 1:2	3.0	3.0	3	5	3	4	3	4	2	NA	NA	mg/kg
Extractable Metals, ABDTPA												
Copper	1.8	1.2	1.0	1.7	1.4	1.5	1.6	1.2	1.3	NA	NA	mg/kg
Iron	18.0	13.0	16	12	13	13	12	15	11	NA	NA	mg/kg
Manganese	2.3	1.4	1.2	6.1	4.1	7.6	3	1.3	0.8	NA	NA	mg/kg
Zinc	2.0	0.5	0.3	1.2	1.1	1.1	0.6	0.3	0.5	NA	NA	mg/kg

Notes:

mg/kg - milligrams per kilogram

meq/100g - milliequivalents per 100 grams

su - standard units

NT - parameter was not tested

B - analyte detected in the associated Method Blank above the Reporting Limit

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

D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY												
Sample ID	WC BG-SP4	WC BG-SP4	WC BG-SP4	WC BG-SP5	WC BG-SP5	WC BG-SP5	WC BG-SP6	WC BG-SP6	WC BG-SP6	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	10"-24"	0-6"	6-12"	12"-24"	0-6"	6-12"	12"-24"			
Sample Type	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil			
Sample Date	8/4/2022	8/4/2022	7/25/2022	8/4/2022	8/4/2022	7/25/2022	8/4/2022	8/4/2022	7/25/2022			
Soil Type	Owen-Creek-Jerry-Burnette Loams			Owen-Creek-Jerry-Burnette Loams			Jerry-Thornburgh-Rhone Complex					
Analytical Parameters										**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals												
Arsenic	2.1	1.9	1.7	1.8	2.1	1.8	3.2	2.3	2.8	0.68	0.29	mg/kg
Barium	76.2	26.6	31.0	39.6	42.8	31.7	79.7	35.5	51.1	15,000	82	mg/kg
Cadmium	0.31	0.17	0.290	0.15	0.20	0.200	0.44	<0.17	0.300	71	0.38	mg/kg
Chromium, Hexavalent	0.32 J	0.48 J	0.39 J	0.39 J	0.37 J	<1.00	<1.00	0.35 J	0.41 J	0.3	0.00067	mg/kg
Copper	7.6	5.2	9.1	3.8	4.1	2.7	13.6	11.6	9.2	3,100	46	mg/kg
Lead	9.6	9.7	12.2	7.5	7.9	7.3	16.0	12.7	14.5	400	14	mg/kg
Nickel	7.6	6.2	9.7	5.8	6.1	5.2	13.0	9.4	9.7	1,500	26	mg/kg
Selenium	<1.1	<0.98	<1.0	<0.97	<0.94	<1.0	<1.3	<1.2	<1.1	390	0.26	mg/kg
Silver	<0.53	<0.49	<0.51	<0.49	<0.47	<0.50	<0.64	<0.58	<0.54	390	0.8	mg/kg
Zinc	44.4	35.0	36.9	30.4	32.4	30.5	62.2	49.9	46.4	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	< 0.1	0.20	0.40	0.10	0.20	0.20	0.10	0.10	0.30	<6	<6	ratio
Electrical Conductivity (EC)	0.400	0.200	<0.1	0.300	0.300	<0.1	0.400	0.200	0.10	<4	<4	mmhos/cm
pH	6.50	6.30	5.70	7.00	6.90	6.30	7.10	7.00	6.40	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.200	< 0.1	<0.1	0.200	0.100	<0.1	0.400	0.300	<0.1	2	2	mg/kg
Agronomic Properties												
Physical Characteristics												
Sand	48	44	32	78	78	72	22	20	36	NA	NA	%
Silt	38	46	50	14	14	18	50	52	34	NA	NA	%
Clay	14	10	18	8	8	10	28	28	30	NA	NA	%
Texture	L	L	SiL	SL	SL	SL	CL	SiCL	CL	NA	NA	NA
Nutrients												
Phosphorus, Olsen	9.0	3.0	1.0	18.0	20.0	9.0	2.0	< 1.0	<1.0	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	1.2	0.5	0.9	0.8	0.8	0.6	1.3	1.4	1.3	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	1.5	< 1.0	<1.0	< 1.0	< 1.0	<1.0	1.3	< 1.0	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics												
Cation Exchange Capacity, CEC	20.9 D	7.6 D	11.2 D	10.2 D	10 D	5.1 D	27.5 D	29.2 D	24.5 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.2	0.5	0.4	0.5	0.5	0.8	0.2	0.2	0.3	NA	NA	%
Potassium, Available	272 D	88 D	52	186 D	159 D	55 D	338 D	278 D	87 D	NA	NA	mg/kg
pH, satuarated paste	6.5	6.3	5.7	7	6.9	6.3	7.1	7	6.4	NA	NA	su
Organic Matter, OM	4.9	1.3	1.2	2.2	1.6	0.5	4.9	5	3.6	NA	NA	%
Lime as CaCO3	1	0.39	0.47	0.54	0.5	0.26	1.58	1.4	1.05	NA	NA	%
Chloride, 1:2	3	1	1	3	2	1	2	2	1	NA	NA	mg/kg
Extractable Metals, ABDTPA												
Copper	0.6	0.4	1.2	0.4	0.4	0.2	1.9	1.9	1.9	NA	NA	mg/kg
Iron	46	28	29	19	32	36	33	52	56	NA	NA	mg/kg
Manganese	3	0.7	1	2.4	1.2	0.5	3.3	3	0.5	NA	NA	mg/kg
Zinc	5.7	1	0.4	2.4	1.8	0.7	4.8	4.5	2.8	NA	NA	mg/kg

Notes:
mg/kg - milligrams per kilogram
meq/100g - milliequivalents per 100 grams
su - standard units
NT - parameter was not tested
B - analyte detected in the associated Method Blank above the Reporting Limit
J - the identification of the analyte is acceptable; the reported value is an estimate.
D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 915-1 concentration levels

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY												
Sample ID	WC BG-SP7	WC BG-SP7	WC BG-SP7	WC BG-SP8	WC BG-SP8	WC BG-SP8	WC BG-SP9	WC BG-SP9	WC BG-SP9	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	8-24"	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"			
Sample Type	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil	Background Soil			
Sample Date	8/4/2022	8/4/2022	7/25/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022			
Soil Type	Jerry-Thornburgh-Rhone Complex			Waybe-Vandamore Variant-Rock Outcrop Complex			Owen-Creek-Jerry-Burnette Loams					
Analytical Parameters										**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals												
Arsenic	2.3	2.6	2.7	4.52	6.25	4.37	3.71	2.82	2.90	0.68	0.29	mg/kg
Barium	36.7	29.1	31.4	74.2	73.0	86.7	82.9	651	252	15,000	82	mg/kg
Cadmium	0.17	<0.19	<0.16	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	71	0.38	mg/kg
Chromium, Hexavalent	<1.0	0.51 J	0.45 J	<1.00	<1.00	<1.00	<1.00	1.08	<1.00	0.3	0.00067	mg/kg
Copper	8.5	7.8	8.5	12.3	11.9	11.0	8.26	9.45	12.2	3,100	46	mg/kg
Lead	11.5	12.8	12.5	15.4	15.4	14.9	10.4	13.6	15.0	400	14	mg/kg
Nickel	10.2	9.20	10.1	12.8	18.3	16.2	8.24	3.48	7.45	1,500	26	mg/kg
Selenium	<1.0	<1.3	<1.0	<4.00	<2.00	<2.00	<2.00	<2.00	<2.00	390	0.26	mg/kg
Silver	<0.52	<0.63	<0.52	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	390	0.8	mg/kg
Zinc	34.0	34.6	37.3	64.9	82.6	62.2	38.8	26.8	42.1	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	0.30	0.20	0.30	<0.1	0.1	0.1	0.4	0.4	0.4	<6	<6	ratio
Electrical Conductivity (EC)	0.30	0.20	0.10	0.4	0.3	0.2	0.2	0.1	<0.1	<4	<4	mmhos/cm
pH	7.00	6.70	6.30	6.8	6.7	7.0	5.9	4.9	4.7	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.300	0.200	0.10	0.624	0.507	0.519	0.218	<0.200	<0.200	2	2	mg/kg
Agronomic Properties												
Physical Characteristics												
Sand	56	50	46	42	44	32	46	24	18	NA	NA	%
Silt	28	30	32	39	35	31	31	47	55	NA	NA	%
Clay	16	20	22	19	21	37	23	29	27	NA	NA	%
Texture	SL	L	L	L	L	CL	L	CL	SiCL	NA	NA	NA
Nutrients												
Phosphorus, Olsen	1.0	< 1.0	<1.0	7	3	2	1	1	3	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	0.8	1.1	0.8	1.8	2.0	1.9	3.0	4.6	2.4	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	< 1.0	< 1.0	<1.0	1.8	<1.0	<1.0	1.0	<1.0	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics												
Cation Exchange Capacity, CEC	12.3 D	11.9 D	12.3 D	18.6 D	15.6 D	22.9 D	17.4 D	16.1 D	13.9 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.5	0.5	NA	NA	%
Potassium, Available	250 D	252 D	177 D	424 D	343 D	307 D	126 D	97 D	91 D	NA	NA	mg/kg
pH, satuarated paste	7	6.7	6.3	6.8	6.7	7.0	5.9	4.9	4.7	NA	NA	su
Organic Matter, OM	2.3	2.1	1.9	5.2	2.9	1.5	3.5	1.7	1.0	NA	NA	%
Lime as CaCO3	0.65	0.61	0.52	0.95	0.73	1.07	0.67	0.45	0.47	NA	NA	%
Chloride, 1:2	3	2	2	3	2	2	2	2	1	NA	NA	mg/kg
Extractable Metals, ABDTPA												
Copper	1.1	1.5	1.2	1.5	1.1	0.6	1.1	2.3	3.7	NA	NA	mg/kg
Iron	25	23	27	34	24	25	72	145	161	NA	NA	mg/kg
Manganese	1.8	1.4	1.1	6.1	2.4	2.5	1.3	0.7	1.8	NA	NA	mg/kg
Zinc	0.9	0.5	0.5	3	1	<1	3	2	2	NA	NA	mg/kg

Notes:
mg/kg - milligrams per kilogram
meq/100g - milliequivalents per 100 grams
su - standard units
NT - parameter was not tested
B - analyte detected in the associated Method Blank above the Reporting Limit
J - the identification of the analyte is acceptable; the reported value is an estimate.
D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 915-1 concentration levels

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY												
Sample ID	WC BG-SP10	WC BG-SP10	WC BG-SP10	WC BG-SP11	WC BG-SP11	WC BG-SP11	WC BG-SP12	WC BG-SP12	WC BG-SP12	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"			
Sample Type	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample			
Sample Date	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022			
Soil Type	Owen-Creek-Jerry-Burnette Loams			Owen-Creek-Jerry-Burnette Loams			Owen-Creek-Jerry-Burnette Loams					
Analytical Parameters										**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals												
Arsenic	4.95	6.82	4.86	3.12	2.79	2.09	4.04	2.91	4.61	0.68	0.29	mg/kg
Barium	164	194	182	57.5	59.6	71.0	92.5	63.2	82.5	15,000	82	mg/kg
Cadmium	<0.500	0.531	0.507	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	71	0.38	mg/kg
Chromium, Hexavalent	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.3	0.00067	mg/kg
Copper	16.1	18.5	17.6	12.7	17.7	14.2	15.5	10.6	15.9	3,100	46	mg/kg
Lead	15.5	19.9	19.1	13.9	15.9	12.6	15.4	11.1	15.9	400	14	mg/kg
Nickel	13.5	17.3	16.8	12.5	10.1	7.43	11.7	8.52	13.0	1,500	26	mg/kg
Selenium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	390	0.26	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	390	0.8	mg/kg
Zinc	60.7	86.9	72.9	45.0	44.7	42.9	56.9	41.3	58.8	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	<0.1	<0.1	0.2	0.1	0.2	0.3	<0.1	0.1	0.1	<6	<6	ratio
Electrical Conductivity (EC)	0.4	0.4	0.3	0.2	<0.1	0.7	0.3	0.2	0.2	<4	<4	mmhos/cm
pH	7.0	7.3	7.6	6.9	6.6	6.2	6.8	6.8	6.6	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.730	0.894	0.427	<0.200	<0.200	<0.200	0.706	0.534	0.457	2	2	mg/kg
Agronomic Properties												
Physical Characteristics												
Sand	18	20	16	52	48	44	36	36	30	NA	NA	%
Silt	51	49	51	29	33	33	45	43	45	NA	NA	%
Clay	31	31	33	19	19	23	19	21	25	NA	NA	%
Texture	SiCL	SiCL	SiCL	L	L	L	L	L	L	NA	NA	NA
Nutrients												
Phosphorus, Olsen	10	2	1	8	3	3	17	6	2	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	2.4	2.3	2.2	2.8	0.9	1.1	1.6	3.9	3.3	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics												
Cation Exchange Capacity, CEC	40.7 D	41.4 D	28 D	11.7 D	10.8 D	11.2 D	21.9 D	18.1 D	18.6 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.1	0.1	0.3	0.3	0.4	0.4	0.2	0.2	0.3	NA	NA	%
Potassium, Available	385 D	269 D	138 D	151 D	119 D	87 D	480 D	402 D	289 D	NA	NA	mg/kg
pH, satuarated paste	7.0	7.3	7.6	6.9	6.6	6.2	6.8	6.8	6.6	NA	NA	su
Organic Matter, OM	10.7	10.5	4.2	1.2	0.5	0.5	5.2	3.3	2.1	NA	NA	%
Lime as CaCO3	2.16	2.18	3.5	0.70	0.60	0.69	1.05	0.87	0.83	NA	NA	%
Chloride, 1:2	3	2	2	2	1	<1	2	<1	2	NA	NA	mg/kg
Extractable Metals, ABDTPA												
Copper	2.6	2.0	2.5	0.7	0.8	1.0	2.4	2.4	2.2	NA	NA	mg/kg
Iron	41	40	30	18	14	17	44	38	24	NA	NA	mg/kg
Manganese	6.0	6.0	2.8	3.3	1.4	1.4	6.4	4.3	1.9	NA	NA	mg/kg
Zinc	9	8	4	<1	<1	<1	4	3	1	NA	NA	mg/kg

Notes:
mg/kg - milligrams per kilogram
meq/100g - milliequivalents per 100 grams
su - standard units
NT - parameter was not tested
B - analyte detected in the associated Method Blank above the Reporting Limit
J - the identification of the analyte is acceptable; the reported value is an estimate.
D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 915-1 concentration levels

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY												
Sample ID	WC BG-SP13	WC BG-SP13	WC BG-SP13	WC BG-SP14	WC BG-SP14	WC BG-SP14	WC BG-SP15	WC BG-SP15	WC BG-SP15	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"			
Sample Type	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample			
Sample Date	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022			
Soil Type	Owen-Creek-Jerry-Burnette Loams			Mergel-Redthayne-Dollard Complex			Jerry-Thornburgh-Rhone Complex					
Analytical Parameters										**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals												
Arsenic	3.83	3.21	5.71	6.04	4.97	4.25	4.67	4.61	3.76	0.68	0.29	mg/kg
Barium	126	112	105	141	140	115	95.6	90.0	118	15,000	82	mg/kg
Cadmium	<0.500	<0.500	<0.500	0.550	<0.500	0.566	<0.500	<0.500	<0.500	71	0.38	mg/kg
Chromium, Hexavalent	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.3	0.00067	mg/kg
Copper	9.82	8.48	11.7	13.5	14.9	15.5	9.01	8.63	7.57	3,100	46	mg/kg
Lead	12.6	11.3	16.7	20.1	19.8	18.2	9.28	9.75	10.1	400	14	mg/kg
Nickel	10.6	9.54	15.1	17.6	15.2	17.4	10.9	11.9	12.0	1,500	26	mg/kg
Selenium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	390	0.26	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	390	0.8	mg/kg
Zinc	54.1	43.4	63.8	68.9	67.3	73.9	35.0	38.0	48.7	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	<0.1	<0.1	0.1	<0.1	0.2	0.3	<0.1	0.1	0.2	<6	<6	ratio
Electrical Conductivity (EC)	0.3	0.2	0.1	0.6	0.2	0.1	0.9	0.4	0.2	<4	<4	mmhos/cm
pH	6.8	6.6	6.6	7.0	6.9	7.0	6.6	6.2	6.0	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.573	0.446	0.276	0.479	0.476	0.353	0.922	0.423	0.302	2	2	mg/kg
Agronomic Properties												
Physical Characteristics												
Sand	38	40	44	42	14	10	36	38	58	NA	NA	%
Silt	37	43	39	27	41	49	43	39	19	NA	NA	%
Clay	25	17	17	31	45	41	21	23	23	NA	NA	%
Texture	L	L	L	CL	SiC	SiC	L	L	SCL	NA	NA	NA
Nutrients												
Phosphorus, Olsen	10	4	2	3	1	<1	26	7	2	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	2.1	1.8	1.5	3.5	3.7	1.9	2.5	1.3	1.1	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics												
Cation Exchange Capacity, CEC	21.9 D	17.6 D	12.1 D	25.1 D	22.6 D	22.0 D	35.2 D	26.2 D	14.8 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.2	0.2	0.3	0.2	0.2	0.3	0.1	0.1	0.3	NA	NA	%
Potassium, Available	403 D	349 D	217 D	320 D	260 D	137 D	492 D	223 D	96 D	NA	NA	mg/kg
pH, satuarated paste	6.8	6.6	6.6	7.0	6.9	7.0	6.6	6.2	6.0	NA	NA	su
Organic Matter, OM	5.1	3.7	1.6	4.7	2.2	1.4	11.5	5.1	1.2	NA	NA	%
Lime as CaCO3	1.12	0.88	0.67	1.39	1.17	1.11	1.69	1.22	0.69	NA	NA	%
Chloride, 1:2	2	2	1	4	2	1	8	4	2	NA	NA	mg/kg
Extractable Metals, ABDTPA												
Copper	0.8	0.7	0.7	2.2	1.7	2.7	0.9	0.8	0.7	NA	NA	mg/kg
Iron	45	46	27	16	18	23	28	33	15	NA	NA	mg/kg
Manganese	6.5	3.8	2.0	7.2	5.6	0.9	9.8	4.8	2.6	NA	NA	mg/kg
Zinc	3	2	<1	3	<1	2	2	<1	<1	NA	NA	mg/kg

Notes:
mg/kg - milligrams per kilogram
meq/100g - milliequivalents per 100 grams
su - standard units
NT - parameter was not tested
B - analyte detected in the associated Method Blank above the Reporting Limit
J - the identification of the analyte is acceptable; the reported value is an estimate.
D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 915-1 concentration levels

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY												
Sample ID	WC BG-SP16	WC BG-SP16	WC BG-SP16	WC BG-SP17	WC BG-SP17	WC BG-SP17	WC BG-SP18	WC BG-SP18	WC BG-SP18	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"			
Sample Type	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample			
Sample Date	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	8/17/2022	9/20/2022	9/20/2022	9/20/2022			
Soil Type	Owen-Creek-Jerry-Burnette Loams			Jerry-Thornburgh-Rhone Complex			Mergel-Redthayne-Dollard Complex					
Analytical Parameters										**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals												
Arsenic	4.40	4.38	13.8	1.32	2.53	2.27	2.6	3.6	3.2	0.68	0.29	mg/kg
Barium	113	105	188	41.8	41.2	60.4	49.9	63.0	54.6	15,000	82	mg/kg
Cadmium	<0.500	0.888	1.26	<0.500	<0.500	<0.500	0.250	<0.35	<0.32	71	0.38	mg/kg
Chromium, Hexavalent	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.96 J	<1.0	0.45 J	0.3	0.00067	mg/kg
Copper	13.0	26.8	14.0	6.53	7.59	10.1	10.3	17	16.1	3,100	46	mg/kg
Lead	15.4	37.6	36.2	8.47	9.88	11.6	13.1	17.8	16.8	400	14	mg/kg
Nickel	13.2	25.7	25.0	4.18	8.90	8.55	9.8	15.5	12.6	1,500	26	mg/kg
Selenium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.2	<2.3	<2.1	390	0.26	mg/kg
Silver	<1.00	<1.0	<1.00	<1.00	<1.00	<1.00	<0.60	<1.2	<1.1	390	0.8	mg/kg
Zinc	58.5	100	136	32.2	41.1	49.7	41	70.1	67.2	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	0.1	0.2	0.4	<0.1	<0.1	<0.1	0.1	<0.1	0.2	<6	<6	ratio
Electrical Conductivity (EC)	0.4	0.3	0.3	0.7	0.6	0.6	0.4	0.4	0.3	<4	<4	mmhos/cm
pH	6.9	7.5	8.0	6.8	7.2	7.2	7.3	7.2	7.1	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.708	0.410	0.288	0.498	0.285	0.538	0.500	0.200	0.300	2	2	mg/kg
Agronomic Properties												
Physical Characteristics												
Sand	30	12	18	46	36	38	50	46	28	NA	NA	%
Silt	47	53	39	35	45	43	36	34	40	NA	NA	%
Clay	23	35	43	19	19	19	14	20	32	NA	NA	%
Texture	L	SiCL	C	L	L	L	L	L	CL	NA	NA	NA
Nutrients												
Phosphorus, Olsen	12.0	2	<1	8	4	5	2	<1.0	<1	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	2.7	1.9	4.0	6.0	5.0	2.8	0.7	<0.5	<0.5	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	1.3	<1.0	<1.0	3.0	2.0	3.0	2.9	<1.0	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics												
Cation Exchange Capacity, CEC	26.0 D	18.1 D	21.6 D	14.0 D	22.1 D	18.3 D	16.8	13.9	20.7	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.1	0.6	0.9	0.3	0.1	0.3	0.4	0.4	0.3	NA	NA	%
Potassium, Available	391 D	213 D	167 D	367 D	278 D	416 D	297 D	239 D	302 D	NA	NA	mg/kg
pH, satuarated paste	6.9	7.5	8.0	6.8	7.2	7.2	7.3	7.2	7.1	NA	NA	su
Organic Matter, OM	5.2	1.4	3.7	4.7	5.2	4.4	4.5	1.3	1.1	NA	NA	%
Lime as CaCO3	1.40	1.16	2.45	1.47	1.47	1.34	0.9	1.94	0.79	NA	NA	%
Chloride, 1:2	3	1	1	3	2	2	7	3	2	NA	NA	mg/kg
Extractable Metals, ABDTPA												
Copper	1.4	2.1	2.8	1.3	1.7	1.5	1.2	1.3	1.5	NA	NA	mg/kg
Iron	26	19	18	16	27	25	13	12	16	NA	NA	mg/kg
Manganese	5.4	1.5	0.5	5.9	5.1	3.9	7.6	3.4	2.2	NA	NA	mg/kg
Zinc	5	2	6	6	10	8	1.3	0.5	0.4	NA	NA	mg/kg

Notes:
mg/kg - milligrams per kilogram
meq/100g - milliequivalents per 100 grams
su - standard units
NT - parameter was not tested
B - analyte detected in the associated Method Blank above the Reporting Limit
J - the identification of the analyte is acceptable; the reported value is an estimate.
D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 915-1 concentration levels

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY												
Sample ID	WC BG-SP19	WC BG-SP19	WC BG-SP19	WC BG-SP20	WC BG-SP20	WC BG-SP20	WC BG-SP21	WC BG-SP21	WC BG-SP21	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"			
Sample Type	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample	Background Sample			
Sample Date	9/20/2022	9/20/2022	9/20/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022	9/28/2022			
Soil Type	Rhone-Northwater-Lamphier Loams			Blazon, Moist-Rentsac Complex			Blazon, Moist-Rentsac Complex					
Analytical Parameters										**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals												
Arsenic	2.3	2.9	2.8	3.0	2.9	2.6	3.4	3.3	3.1	0.68	0.29	mg/kg
Barium	35.6	31.8	32.0	55.6	56.7	54.7	78.1	74.5	88.7	15,000	82	mg/kg
Cadmium	0.170	<0.31	<0.31	0.33	0.36	0.28	0.32	0.32	0.34	71	0.38	mg/kg
Chromium, Hexavalent	0.62 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.3	0.00067	mg/kg
Copper	9.5	13	9.7	9.1	9.8	8.3	10.9	10.8	11.4	3,100	46	mg/kg
Lead	10.8	14.4	12.6	11.5	11.3	11.1	12.9	12.7	13.2	400	14	mg/kg
Nickel	9.4	12.3	10.2	10.2	10.2	10.0	11.7	11.7	12.4	1,500	26	mg/kg
Selenium	<1.1	<2.1	<2.0	<1.1	<0.99	<0.95	<1.0	<1.1	<1.0	390	0.26	mg/kg
Silver	<0.55	<1.0	<1.0	<0.54	<0.49	<0.48	<0.52	<0.55	<0.50	390	0.8	mg/kg
Zinc	45.8	58.9	50.2	56.7	50.2	48.7	47.7	49	57.2	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	<0.1	<0.1	0.10	<0.10	<0.10	<0.10	0.10	<0.1	<0.1	<6	<6	ratio
Electrical Conductivity (EC)	0.50	0.40	0.10	0.40	0.30	0.30	0.30	0.30	0.20	<4	<4	mmhos/cm
pH	6.80	6.60	6.90	7.40	7.40	7.60	7.70	7.70	7.80	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.40	0.10	0.10	0.30	0.20	0.10	0.30	0.20	0.10	2	2	mg/kg
Agronomic Properties												
Physical Characteristics												
Sand	38	48	56	50	48	56	46	46	44	NA	NA	%
Silt	46	36	28	33	34	28	38	36	37	NA	NA	%
Clay	16	16	16	17	18	16	16	18	19	NA	NA	%
Texture	L	L	SL	L	L	SL	L	L	L	NA	NA	NA
Nutrients												
Phosphorus, Olsen	3.0	<1	<1.0	3.0	1.0	1.0	7.0	3.0	2.0	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	<0.5	<0.5	0.6	1.2	0.6	0.6	0.6	0.7	0.7	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	2.4	1.8	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics												
Cation Exchange Capacity, CEC	15.1	8.94	8.93	15.6 D	14.5 D	11.2 D	12 D	13.5 D	11.1 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.3	0.7	0.8	0.3	0.4	0.5	0.4	0.4	0.6	NA	NA	%
Potassium, Available	183 D	124 D	121 D	296 D	199 D	165 D	299 D	298 D	206 D	NA	NA	mg/kg
pH, satuarated paste	6.8	6.6	6.9	7.4	7.4	7.6	7.7	7.7	7.8	NA	NA	su
Organic Matter, OM	2.9	0.4	0.6	3.8	2.6	1.8	2.8	2.3	1.5	NA	NA	%
Lime as CaCO3	0.58	0.4	0.47	1.08	0.9	0.79	1.48	0.98	0.9	NA	NA	%
Chloride, 1:2	30	34	3	5	2	1	1	2	2	NA	NA	mg/kg
Extractable Metals, ABDTPA												
Copper	0.5	0.3	0.3	1.6	2.1	1.3	2.0	2.1	2.0	NA	NA	mg/kg
Iron	17	10	11	15	11	9	16	14	10	NA	NA	mg/kg
Manganese	8.9	2.1	2.5	3.1	1.8	0.8	4.7	2.7	0.8	NA	NA	mg/kg
Zinc	1.3	0.3	0.3	2.5	3	1.4	1.6	1.6	1.4	NA	NA	mg/kg

Notes:
mg/kg - milligrams per kilogram
meq/100g - milliequivalents per 100 grams
su - standard units
NT - parameter was not tested
B - analyte detected in the associated Method Blank above the Reporting Limit
J - the identification of the analyte is acceptable; the reported value is an estimate.
D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 915-1 concentration levels

Table 1
Background Soil Profile Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY						
Sample ID	WC BG-SP22	WC BG-SP22	WC BG-SP22	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Depth	0-6"	6-12"	12-24"			
Sample Type	Background Sample	Background Sample	Background Sample			
Sample Date	9/28/2022	9/28/2022	9/28/2022			
Soil Type	Blazon, Moist-Rentsac Complex					
Analytical Parameters				**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
Metals						
Arsenic	7.5	4.1	3.5	0.68	0.29	mg/kg
Barium	101.0	96.2	125.0	15,000	82	mg/kg
Cadmium	0.43	0.29	0.27	71	0.38	mg/kg
Chromium, Hexavalent	<1.0	0.51 J	<1.0	0.3	0.00067	mg/kg
Copper	17.5	15.6	14.5	3,100	46	mg/kg
Lead	19.3	17.9	19.5	400	14	mg/kg
Nickel	14.5	11.7	9.8	1,500	26	mg/kg
Selenium	<1.1	<0.98	<1.0	390	0.26	mg/kg
Silver	<0.53	<0.49	<0.52	390	0.8	mg/kg
Zinc	67.8	52.4	46.4	23,000	370	mg/kg
Soil Suitability for Reclamation						
Sodium Adsorption Ratio (SAR)	0.10	0.10	0.20	<6	<6	ratio
Electrical Conductivity (EC)	0.60	0.40	0.50	<4	<4	mmhos/cm
pH	7.80	7.80	8.00	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.70	0.50	0.40	2	2	mg/kg
Agronomic Properties						
Physical Characteristics						
Sand	0.1	0.1	0.2	NA	NA	%
Silt	0.6	0.4	0.5	NA	NA	%
Clay	7.8	7.8	8	NA	NA	%
Texture	0.7	0.5	0.4	NA	NA	NA
Nutrients						
Phosphorus, Olsen	3.0	1.0	<1	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	1.0	0.8	<0.5	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	5.7	<1.0	<1.0	NA	NA	mg/kg-dry
Chemical Characteristics						
Cation Exchange Capacity, CEC	19.8 D	12 D	11.7 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	0.4	0.5	0.9	NA	NA	%
Potassium, Available	676 D	397 D	124 D	NA	NA	mg/kg
pH, satuarated paste	7.8	7.8	8	NA	NA	su
Organic Matter, OM	4.8	1.9	1.2	NA	NA	%
Lime as CaCO3	7.11	9.7	15.4	NA	NA	%
Chloride, 1:2	8	5	31	NA	NA	mg/kg
Extractable Metals, ABDTPA						
Copper	3.4	3.1	2.6	NA	NA	mg/kg
Iron	11	8	4	NA	NA	mg/kg
Manganese	7.3	1.6	0.5	NA	NA	mg/kg
Zinc	2.4	0.6	0.1	NA	NA	mg/kg

Notes:
mg/kg - milligrams per kilogram
meq/100g - milliequivalents per 100 grams
su - standard units
NT - parameter was not tested
B - analyte detected in the associated Method Blank above the Reporting Limit
J - the identification of the analyte is acceptable; the reported value is an estimate.
D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 915-1 concentration levels

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	09/07/2022 09:48	WG1920932

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	95.6		0.500	1	08/25/2022 13:28	WG1913978
Cadmium	ND		0.500	1	08/25/2022 13:28	WG1913978
Copper	9.01		2.00	1	08/25/2022 13:28	WG1913978
Lead	9.28		0.500	1	08/25/2022 13:28	WG1913978
Nickel	10.9		2.00	1	08/25/2022 13:28	WG1913978
Selenium	ND		2.00	1	08/25/2022 13:28	WG1913978
Silver	ND		1.00	1	08/25/2022 13:28	WG1913978
Zinc	35.0		5.00	1	08/25/2022 13:28	WG1913978

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.922		0.200	1	08/26/2022 14:11	WG1914112

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.67		1.00	5	08/24/2022 01:00	WG1913977

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Entrada Consulting Group
Project: Chevron Wilson Creek Background Soil
Lab ID: H22080640-022
Client Sample ID: WC BG-SP15 [0-6]

Report Date: 08/26/22
Collection Date: 08/17/22 15:05
DateReceived: 08/19/22
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	36	%		1		ASA15-5	08/23/22 08:46 / jjp
Silt	43	%		1		ASA15-5	08/23/22 08:46 / jjp
Clay	21	%		1		ASA15-5	08/23/22 08:46 / jjp
Texture	L			1		ASA15-5	08/23/22 08:46 / jjp
SATURATED PASTE							
Saturation	62.9	%		0.1		USDA27a	08/23/22 08:05 / swj
SATURATED PASTE							
pH, sat. paste	6.6	s.u.		0.1		ASA10-3	08/23/22 09:22 / sah
WATER EXTRACTABLE							
Chloride, 1:2	8	mg/kg		1		E300.0	08/24/22 03:32 / SRW
SATURATED PASTE EXTRACT							
Conductivity, sat. paste	0.9	mmhos/cm		0.1		ASA10-3	08/23/22 13:38 / sah
Sodium, sat. paste	0.11	meq/L		0.04		SW6010B	08/24/22 17:06 / sld
Sodium Adsorption Ratio (SAR)	ND	unitless		0.1		USDA20b	08/25/22 08:49 / stp
CHEMICAL CHARACTERISTICS							
Sodium	10	mg/kg		1		SW6010B	08/24/22 01:16 / sld
Potassium, Available	492	mg/kg	D	3		SW6010B	08/24/22 01:16 / sld
Sodium, Extractable	0.044	meq/100g		0.004		SW6010B	08/24/22 01:16 / sld
Cation Exchange Capacity	35.2	meq/100g	D	0.6		SW6010B	08/24/22 23:29 / sld
Organic Matter	11.5	%		0.2		ASA29-3	08/25/22 08:40 / sah
Exchangeable Sodium Percentage	0.1	%		0.1		USDA20a	08/25/22 08:49 / stp
Lime as CaCO3	1.69	%		0.01		USDA23c	08/24/22 13:12 / jjp
NUTRIENTS							
Phosphorus, Olsen	26	mg/kg-dry		1		ASA24-5	08/26/22 10:00 / JAR
Ammonia as N, KCL Extract	2.5	mg/kg-dry		0.5		ASA33-7	08/24/22 12:37 / SRW
Nitrate as N, KCL Extract	ND	mg/kg-dry		1.0		ASA33-8	08/24/22 16:27 / SRW
CACL2 EXTRACTABLE METALS							
Boron	1.0	mg/kg		0.1		SW6010B	08/25/22 18:49 / sld
ABDTPA EXTRACTABLE METALS							
Copper	0.9	mg/kg		0.1		SW6020	08/23/22 13:18 / dck
Iron	28	mg/kg		1		SW6020	08/23/22 13:18 / dck
Manganese	9.8	mg/kg		0.1		SW6020	08/23/22 13:18 / dck
Zinc	2	mg/kg		1		SW6020	08/23/22 13:18 / dck

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
B - Analyte detected in the method blank
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
D - Reporting Limit (RL) increased due to sample matrix

IMPORT FILL ANALYTICAL SUMMARY

Table 1
Import Fill Analytical Summary
Wilson Creek
Rio Blanco County, Colorado

LABORATORY DATA SUMMARY						
Sample ID	URIE PIT	MEEKER PIT	UNITED PIT	**COGCC TABLE 915-1 CLEANUP CONCENTRATIONS**		
Sample Type	Topsoil Composite	Topsoil Composite	Topsoil Composite			
Sample Date	7/11/2022	7/20/2022	7/20/2022			
Analytical Parameters				**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
TPH						
C6-C10 Gasoline Range	<10.1	0.0699 JB	0.0437 B	500		mg/kg
C10-C28 Diesel Range	<10.2	20.8 B	6.65 B			
C28-C36 Motor Oil Range	<10.2	247	30.4			
Volatile Organic Compounds						
1,2,4-Trimethylbenzene	<0.00500	<0.00500	<0.00500	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	<0.00500	<0.00500	<0.00500	27	0.0087	mg/kg
Benzene	<0.00100	<0.00100	<0.00100	1.2	0.0026	mg/kg
Toluene	<0.00500	<0.00500	<0.00500	490	0.69	mg/kg
Ethylbenzene	<0.00250	<0.00250	<0.00250	5.8	0.78	mg/kg
Total Xylene	<0.00650	<0.00650	<0.00650	58	9.9	mg/kg
Metals						
Arsenic	3.94	3.97	4.39	0.68	0.29	mg/kg
Barium	108	139	139	15,000	82	mg/kg
Cadmium	<0.500	<0.500	<0.500	71	0.38	mg/kg
Chromium, Hexavalent	<1.00			0.3	0.00067	mg/kg
Copper	8.14	16.5	14.9	3,100	46	mg/kg
Lead	7.03	10.6	9.3	400	14	mg/kg
Nickel	8.34	16.1	17.1	1,500	26	mg/kg
Selenium	<2.00	<2.00	<2.00	390	0.26	mg/kg
Silver	<1.00	<1.00	<1.00	390	0.8	mg/kg
Zinc	32.6	57.8	57.6	23,000	370	mg/kg
Soil Suitability for Reclamation						
Sodium Adsorption Ratio (SAR)	4.27	1.51	3.11	<6	<6	ratio
Electrical Conductivity (EC)	2.10	5.27	3.38	<4	<4	mmhos/cm
pH	7.77	7.39	8.16	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.279	0.867	0.852	2	2	mg/kg
Polynuclear Aromatic Hyrdrocarbons						
1-Methylnaphthalene	<0.0200	<0.0200	<0.0200	18	0.006	mg/kg
2-Methylnaphthalene	<0.0200	<0.0200	<0.0200	24	0.019	mg/kg
Acenaphthene	<0.00600	<0.00600	<0.00600	360	0.55	mg/kg
Anthracene	<0.00600	<0.00600	<0.00600	1,800	5.8	mg/kg
Benzo(a)anthracene	<0.00600	<0.00600	<0.00600	1.1	0.011	mg/kg
Benzo(a)pyrene	<0.00600	<0.00600	<0.00600	0.11	0.24	mg/kg
Benzo(b)fluoranthene	<0.00600	<0.00600	<0.00600	1.1	0.3	mg/kg
Benzo(k)fluoranthene	<0.00600	<0.00600	<0.00600	11	2.9	mg/kg
Chrysene	<0.00600	<0.00600	<0.00600	110	9	mg/kg
Dibenzo(a,h)anthracene	<0.00600	<0.00600	<0.00600	0.11	0.096	mg/kg
Fluoranthene	<0.00600	<0.00600	<0.00600	240	8.9	mg/kg
Fluorene	<0.00600	<0.00600	<0.00600	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	<0.00600	<0.00600	<0.00600	1.1	0.98	mg/kg
Napthalene	<0.0200	<0.0200	<0.0200	2	0.0038	mg/kg
Pyrene	<0.00600	<0.00600	<0.00600	180	1.3	mg/kg
Agronomic Properties						
Physical Characteristics						
Sand	46	44	26	NA	NA	%
Silt	34	29	39	NA	NA	%
Clay	20	27	35	NA	NA	%
Texture	L	CL	CL	NA	NA	NA
Nutrients						
Phosphorus, Olsen	<1.0	330 D	10.0	NA	NA	mg/kg-dry
Ammonia as N, KCL Extract	1.2	4.9	5.5	NA	NA	mg/kg-dry
Nitrate as N, KCL Extract	22.0	590 D	120 D	NA	NA	mg/kg-dry
Chemical Characteristics						
Cation Exchange Capacity, CEC	13.2 D	31.1 D	26.1 D	NA	NA	meq/100g
Exchangeable Sodium Capacity, ESP	9.1	1.1	5.4	NA	NA	%
Potassium, Available	92 D	4340 D	206 D	NA	NA	mg/kg
pH, satuarated paste	7.9	7.1	7.7	NA	NA	su
Organic Matter, OM	0.5	6.5	2.0	NA	NA	%
Lime as CaCO3	9.69	5.8	10.1	NA	NA	%
Chloride, 1:2	76.0	411	22	NA	NA	mg/kg
Extractable Metals, ABDTPA						
Copper	2.0	2.6	2.6	NA	NA	mg/kg
Iron	22	126	21	NA	NA	mg/kg
Manganese	1.4	14.8	6.8	NA	NA	mg/kg
Zinc	0.7	11	0.9	NA	NA	mg/kg

Notes:

mg/kg - milligrams per kilogram

su - standard units

meq/100g - milliequivalents per 100 grams

NT - parameter was not tested

B - analyte detected in the associated Method Blank above the Reporting Limit

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

D - Reporting Limit (RL) increased due to sample matrix

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 15, 2022

Tim Dobransky
Entrada Consulting Group
330 Grand Ave
Unit C
Grand Junction, CO 81503

RE: Project: URIE PIT
Pace Project No.: 60405242

Dear Tim Dobransky:

Enclosed are the analytical results for sample(s) received by the laboratory on July 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,

Angie Brown for
Heather Wilson
heather.wilson@pacelabs.com
1(913)563-1407
Project Manager

Enclosures

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: URIE PIT
Pace Project No.: 60405242

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 22-031-0
Arkansas Drinking Water
Illinois Certification #: 2000302021-3
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212020-2
Oklahoma Certification #: 9205/9935
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-21-15
Utah Certification #: KS000212019-9
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

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SAMPLE SUMMARY

Project: URIE PIT
Pace Project No.: 60405242

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60405242001	**URIE PIT**	Solid	07/11/22 12:30	07/12/22 08:35

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SAMPLE ANALYTE COUNT

Project: URIE PIT
Pace Project No.: 60405242

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60405242001	**URIE PIT**	EPA 8015B	WFG	4	PASI-K
		EPA 8015B	BA	2	PASI-K
		ASTM D2974	DWC	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: URIE PIT
Pace Project No.: 60405242

Sample: URIE PIT **Lab ID: 60405242001** Collected: 07/11/22 12:30 Received: 07/12/22 08:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
	Pace Analytical Services - Kansas City							
TPH-DRO (C10-C28)	ND	mg/kg	10.2	1	07/13/22 10:17	07/13/22 15:38		
TPH-ORO (C28-C35)	ND	mg/kg	10.2	1	07/13/22 10:17	07/13/22 15:38		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	07/13/22 10:17	07/13/22 15:38	646-31-1	
p-Terphenyl (S)	85	%	46-130	1	07/13/22 10:17	07/13/22 15:38	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
TPH-GRO	ND	mg/kg	10.1	1	07/13/22 16:23	07/13/22 23:10		
Surrogates								
4-Bromofluorobenzene (S)	96	%	66-130	1	07/13/22 16:23	07/13/22 23:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**6.3**	%	0.50	1		07/13/22 14:55		

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QUALITY CONTROL DATA

Project: URIE PIT
Pace Project No.: 60405242

QC Batch: 797272
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015B
Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60405242001

METHOD BLANK: 3175957 Matrix: Solid
Associated Lab Samples: 60405242001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	1.2J	10.0	07/13/22 18:59	
4-Bromofluorobenzene (S)	%	98	66-130	07/13/22 18:59	

LABORATORY CONTROL SAMPLE: 3175958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	52.2	104	70-130	
4-Bromofluorobenzene (S)	%			99	66-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3175959 3175960

Parameter	Units	60404559003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	67.8	67.9	90.9	77.5	133	113	70-130	16	25	M1
4-Bromofluorobenzene (S)	%						131	102	66-130			S0

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: URIE PIT
Pace Project No.: 60405242

QC Batch: 797283
QC Batch Method: EPA 3546
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60405242001

METHOD BLANK: 3176027 Matrix: Solid
Associated Lab Samples: 60405242001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.7	07/13/22 14:16	
n-Tetracosane (S)	%	75	31-152	07/13/22 14:16	
p-Terphenyl (S)	%	85	46-130	07/13/22 14:16	

LABORATORY CONTROL SAMPLE: 3176028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	78.5	78.9	100	74-124	
n-Tetracosane (S)	%			90	31-152	
p-Terphenyl (S)	%			103	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176029 3176030

Parameter	Units	60405242001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	ND	87.5	85	85.1	79.5	95	91	30-130	7	35	
n-Tetracosane (S)	%						86	87	31-152			
p-Terphenyl (S)	%						99	96	46-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: URIE PIT
Pace Project No.: 60405242

QC Batch: 797305
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60405242001

METHOD BLANK: 3176114
Matrix: Solid
Associated Lab Samples: 60405242001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	07/13/22 14:54	

SAMPLE DUPLICATE: 3176115

Parameter	Units	60404402002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.5	7.0	7	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Lenexa, KS 66219
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QUALIFIERS

Project: URIE PIT
Pace Project No.: 60405242

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: URIE PIT
Pace Project No.: 60405242

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60405242001	**URIE PIT**	EPA 3546	797283	EPA 8015B	797333
60405242001	**URIE PIT**	EPA 5035A/5030B	797272	EPA 8015B	797436
60405242001	**URIE PIT**	ASTM D2974	797305		

WO# : 60405242

60405242

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Con		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Entreda Consulting Group

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 5002 0651 9503 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☐ No ☑ Seals intact: Yes ☐ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 3.9 **Corr. Factor** −1.0 **Corrected** 2.9

Date and initials of person examining contents: JS 7/12/22

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	3 Day Rush
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: SL	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State: CO	☐Yes ☑No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

REVIEWED
By Trudy Gipson at 4:11 pm, 7/12/22

60405242

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: Urie Pit ~~Chevron Wilson Creek Background Sampling~~

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project #

Lab Project #

L #

Collected by (print): **Byron Abeyta**

Site/Facility ID #

P.O. #

Table #

Collected by (signature): Byron Abeyta

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
~~___ Two Day~~ ___ 10 Day (Rad Only)
X Three Day

Date Results Needed

Quote #

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 VOCs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	Soil TPH Table 915 (GRO/DRO/ORO)	SAR/EC/pH	Table 915 BTEX, TMBs				Remarks	Sample # (lab only)
Urie Pit	**Grab**	**SS**	0-9"	7/11/22	1230	1					X							

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
- Rush Please

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Byron Abeyta	7/11/22	1530	[signature]		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
[signature]	7/11/22	1700	[signature] Pace	2.9	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: / Condition: NCF / OK
				7/12/22 0835	

Client: Entrada Consulting Group

Profile # 15388 Line 1

Site: Uric Pit

Notes 3 Day Rush

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other		
1	SL																1															
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60405242

ANALYTICAL SUMMARY REPORT

August 02, 2022

Entrada Consulting Group
1843 Sunlight Dr.
Longmont, CO 80504-2090

Work Order: H22070360 Quote ID: H15424

Project Name: Cheveron Wilson Creek Background Soil

Energy Laboratories Inc Helena MT received the following 1 sample for Entrada Consulting Group on 7/12/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H22070360-001	20220711 - Urie Pit	07/11/22 12:30	07/12/22	Soil	ABDPTA Extractable Metals Cation Exchange Capacity Metals, NH4OAC Extractable Metals, Saturated Paste Exchangeable Sodium Percentage Anions, Water Extractable Lime as CaCO3 Ammonia as N, KCL Extract Nitrate as N, KCL Extract Organic Carbon/Matter Walkley-Black pH, Saturated Paste Phosphorus-Olsen ABDTPA extraction for metals ASA3-5.2 NH4AC Soil Extraction for CEC USDA19 DI Water Soil Extract ASA10-3 KCL Soil Extract ASA33-3 Lime Percentage USDA23c NaHCO3 Soil Extract ASA24-5 Ammonium Acetate Extraction ASA13-3 Total Organic Matter Prep ASA29-3 Particle Size Analysis / Texture Prep ASA15-5 Saturated Paste Extraction ASA Particle Size Analysis / Texture Saturation Percentage Soil Preparation USDA1

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Entrada Consulting Group
Project: Cheveron Wilson Creek Background Soil
Lab ID: H22070360-001
Client Sample ID: 20220711 - Urie Pit

Report Date: 08/02/22
Collection Date: 07/11/22 12:30
DateReceived: 07/12/22
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	46	%		1		ASA15-5	07/19/22 12:31 / swj
Silt	34	%		1		ASA15-5	07/19/22 12:31 / swj
Clay	20	%		1		ASA15-5	07/19/22 12:31 / swj
Texture	L			1		ASA15-5	07/19/22 12:31 / swj
SATURATED PASTE							
Saturation	40.2	%		0.1		USDA27a	07/19/22 07:59 / jjp
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASA10-3	07/19/22 08:20 / sah
WATER EXTRACTABLE							
Chloride, 1:2	76	mg/kg		1		E300.0	07/15/22 20:29 / SRW
SATURATED PASTE EXTRACT							
Sodium, sat. paste	23.4	meq/L		0.04		SW6010B	07/21/22 00:58 / sld
CHEMICAL CHARACTERISTICS							
Potassium, Available	92	mg/kg	D	3		SW6010B	07/19/22 15:06 / sld
Sodium, Extractable	2.20	meq/100g		0.004		SW6010B	07/19/22 15:06 / sld
Cation Exchange Capacity	13.2	meq/100g	D	0.6		SW6010B	07/19/22 14:29 / sld
Organic Matter	0.5	%		0.2		ASA29-3	07/20/22 09:41 / sah
Exchangeable Sodium Percentage	9.1	%		0.1		USDA20a	07/26/22 13:14 / stp
Lime as CaCO3	9.69	%		0.01		USDA23c	07/22/22 08:50 / jjp
NUTRIENTS							
Phosphorus, Olsen	ND	mg/kg-dry		1		ASA24-5	08/01/22 15:07 / JAR
Ammonia as N, KCL Extract	1.2	mg/kg-dry		0.5		ASA33-7	07/19/22 11:56 / JAR
Nitrate as N, KCL Extract	22	mg/kg-dry		1.0		ASA33-8	07/26/22 11:01 / JAR
ABDTPA EXTRACTABLE METALS							
Copper	2.0	mg/kg		0.1		SW6020	07/26/22 14:07 / dck
Iron	22	mg/kg		1		SW6020	07/25/22 21:31 / dck
Manganese	1.4	mg/kg		0.1		SW6020	07/25/22 21:31 / dck
Zinc	0.7	mg/kg		0.1		SW6020	07/26/22 14:07 / dck

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
D - Reporting Limit (RL) increased due to sample matrix
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA10-3							al Run: SOIL PH METER - ORION A211_220720A			
Lab ID: ICV_1_220718_1		Initial Calibration Verification Standard								07/19/22 08:16
pH, sat. paste		7.04	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV_1_220718_1		Continuing Calibration Verification Standard								07/19/22 08:17
pH, sat. paste		7.04	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV1_1_220718_1		Continuing Calibration Verification Standard								07/19/22 08:18
pH, sat. paste		4.01	s.u.	0.10	100	97.5	102.5			
Method: ASA10-3										Batch: 62313
Lab ID: LCS-62313		Laboratory Control Sample				Run: SOIL PH METER - ORION A2				07/19/22 08:19
pH, sat. paste		8.02	s.u.	0.10	101	95	105			
Lab ID: H22070360-001ADUP		Sample Duplicate				Run: SOIL PH METER - ORION A2				07/19/22 08:20
pH, sat. paste		7.89	s.u.	0.10				0.3	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**ASA15-5**										Batch: 62314
Lab ID:	**H22070368-004ADUP**	4	Sample Duplicate				Run: SOIL HYDROMETER_220720			07/19/22 12:31	
Sand			20.0	%	1.0				0.0	20	
Silt			36.0	%	1.0				5.7	20	
Clay			44.0	%	1.0				4.4	20	
Texture			C		1.0						
Lab ID:	**LCS-62314**	3	Laboratory Control Sample				Run: SOIL HYDROMETER_220720			07/19/22 12:31	
Sand			48.0	%	1.0	100	70	130			
Silt			30.0	%	1.0	103	70	130			
Clay			22.0	%	1.0	96	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA24-5								Analytical Run: SEAL AA500_220801A		
Lab ID: CCV		Continuing Calibration Verification Standard							08/01/22 14:52	
Phosphorus, Olsen		2.5	mg/kg-dry	1.0	99	85	115			
Method: ASA24-5									Batch: 62318	
Lab ID: MB-62318		Method Blank				Run: SEAL AA500_220801A			08/01/22 14:57	
Phosphorus, Olsen		ND	mg/kg-dry	0.05						
Lab ID: LCS-62318		Laboratory Control Sample				Run: SEAL AA500_220801A			08/01/22 15:01	
Phosphorus, Olsen		56	mg/kg-dry	1.0	127	70	130			
Lab ID: H22070360-001AMS		Sample Matrix Spike				Run: SEAL AA500_220801A			08/01/22 15:09	
Phosphorus, Olsen		41	mg/kg-dry	1.0	100	80	120			
Lab ID: H22070368-005ADUP		Sample Duplicate				Run: SEAL AA500_220801A			08/01/22 15:19	
Phosphorus, Olsen		24	mg/kg-dry	2.0				1.8	30	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA29-3										Batch: 62322
Lab ID: LCS-62322		Laboratory Control Sample				Run: MISC SOILS_220720A				07/20/22 09:41
Organic Matter		0.945	%	0.17	78	70	130			
Lab ID: MB-62322		Method Blank				Run: MISC SOILS_220720A				07/20/22 09:41
Organic Matter		ND	%	0.2						
Lab ID: H22070368-008ADUP		Sample Duplicate				Run: MISC SOILS_220720A				07/20/22 09:41
Organic Matter		0.821	%	0.17						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA33-7									Analytical Run: FIA203-HE_220719A	
Lab ID: ICV		Initial Calibration Verification Standard							07/19/22 11:44	
Ammonia as N, KCL Extract		1.05	mg/kg-dry	0.50	105	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/19/22 11:47	
Ammonia as N, KCL Extract		0.514	mg/kg-dry	0.50	103	90	110			
Method: ASA33-7										Batch: 62310
Lab ID: MB-62310		Method Blank				Run: FIA203-HE_220719A			07/19/22 11:50	
Ammonia as N, KCL Extract		0.4	mg/kg-dry	0.1						
Lab ID: LCS-62310		Laboratory Control Sample				Run: FIA203-HE_220719A			07/19/22 11:53	
Ammonia as N, KCL Extract		8.23	mg/kg-dry	0.50	111	70	130			
Lab ID: H22070360-001ADUP		Sample Duplicate				Run: FIA203-HE_220719A			07/19/22 11:57	
Ammonia as N, KCL Extract		1.20	mg/kg-dry	0.50				3.2	20	
Lab ID: H22070360-001AMS		Sample Matrix Spike				Run: FIA203-HE_220719A			07/19/22 11:58	
Ammonia as N, KCL Extract		6.15	mg/kg-dry	0.50	98	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA33-8										Batch: 62310
Lab ID: MB-62310		Method Blank				Run: FIA203-HE_220722B				07/22/22 13:52
Nitrate as N, KCL Extract		0.4	mg/kg-dry	0.1						
Lab ID: LCS-62310		Laboratory Control Sample				Run: FIA203-HE_220722B				07/22/22 13:57
Nitrate as N, KCL Extract		8.2	mg/kg-dry	1.0	103	70	130			
Lab ID: H22070360-001AMS		Sample Matrix Spike				Run: FIA203-HE_220722B				07/22/22 15:31
Nitrate as N, KCL Extract		25	mg/kg-dry	1.0	100	80	120			
Method: ASA33-8										Analytical Run: FIA203-HE_220726A
Lab ID: ICV		Initial Calibration Verification Standard								07/26/22 10:55
Nitrate as N, KCL Extract		1.0	mg/kg-dry	1.0	101	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								07/26/22 11:19
Nitrate as N, KCL Extract		0.48	mg/kg-dry	1.0	95	90	110			
Method: ASA33-8										Batch: 62310
Lab ID: H22070360-001ADUP		Sample Duplicate				Run: FIA203-HE_220726A				07/26/22 11:02
Nitrate as N, KCL Extract		21	mg/kg-dry	1.0				3.1	30	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC METROHM_220715A		
Lab ID: ICV		Initial Calibration Verification Standard								07/15/22 11:36
Chloride		100	mg/L	1.0	100	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								07/15/22 12:05
Chloride		50.0	mg/L	1.0	100	90	110			
Method: E300.0										Batch: 62302
Lab ID: MB-62302		Method Blank				Run: IC METROHM_220715A				07/15/22 18:19
Chloride, 1:2		0.3	mg/kg	0.008						
Lab ID: LCS-62302		Laboratory Control Sample				Run: IC METROHM_220715A				07/15/22 18:34
Chloride, 1:2		117	mg/kg	1.0	110	70	130			
Lab ID: H22070325-001AMS		Sample Matrix Spike				Run: IC METROHM_220715A				07/15/22 19:03
Chloride, 1:2		526	mg/kg	1.0	100	90	110			
Lab ID: H22070360-001ADUP		Sample Duplicate				Run: IC METROHM_220715A				07/15/22 20:44
Chloride, 1:2		74.3	mg/kg	1.0				2.5	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Analytical Run: ICP2-HE_220719A	
Lab ID: ICV		Initial Calibration Verification Standard							07/19/22 12:25	
Sodium		41.1	mg/L	1.0	103	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/19/22 12:29	
Sodium		25.0	mg/L	1.0	100	90	110			
Lab ID: ICSA		Interference Check Sample A							07/19/22 12:40	
Sodium		0.0825	mg/L	1.0		0	0			
Lab ID: ICSAB		Interference Check Sample AB							07/19/22 12:44	
Sodium		19.9	mg/L	1.0	100	80	120			
Method: SW6010B										Batch: 62319
Lab ID: MB-62319	2	Method Blank				Run: ICP2-HE_220719A			07/19/22 14:18	
Sodium		ND	mg/kg	7						
Cation Exchange Capacity		ND	meq/100g	0.6						
Lab ID: LFB-62319		Laboratory Fortified Blank				Run: ICP2-HE_220719A			07/19/22 14:22	
Sodium		534	mg/kg	7.2	107	80	120			
Lab ID: LCS-62319	2	Laboratory Control Sample				Run: ICP2-HE_220719A			07/19/22 14:25	
Sodium		275	mg/kg	7.0	99	70	130			
Cation Exchange Capacity		23.9	meq/100g	0.61	99	70	130			
Lab ID: H22070360-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220719A			07/19/22 14:37	
Sodium		697	mg/kg	7.2	109	75	125			
Cation Exchange Capacity		60.7	meq/100g	0.63	109	75	125			
Lab ID: H22070360-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220719A			07/19/22 14:40	
Sodium		684	mg/kg	7.2	106	75	125	1.9	20	
Cation Exchange Capacity		59.5	meq/100g	0.63	106	75	125	1.9	20	
Lab ID: H22070360-001Adup	2	Sample Duplicate				Run: ICP2-HE_220719A			07/19/22 14:51	
Sodium		156	mg/kg	7.0				2.4	30	
Cation Exchange Capacity		13.6	meq/100g	0.61				2.4	30	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Analytical Run: ICP2-HE_220720B	
Lab ID: ICV		Initial Calibration Verification Standard							07/20/22 08:00	
Sodium		40.0	mg/L	1.0	100	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/20/22 08:05	
Sodium		25.0	mg/L	1.0	100	90	110			
Lab ID: ICSA		Interference Check Sample A							07/20/22 08:19	
Sodium		0.0770	mg/L	1.0		0	0			
Lab ID: ICSAB		Interference Check Sample AB							07/20/22 08:22	
Sodium		19.8	mg/L	1.0	99	80	120			
Lab ID: ICV		Initial Calibration Verification Standard							07/21/22 06:06	
Sodium		43.4	mg/L	1.0	109	90	110			
New ICV - analyzed for verification only										
Method: SW6010B										Batch: 62313
Lab ID: MB-62313	2	Method Blank				Run: ICP2-HE_220720B			07/21/22 00:46	
Sodium		0.03	mg/L	0.02						
Sodium, sat. paste		0.001	meq/L	0.0009						
Lab ID: LFB-62313	2	Laboratory Fortified Blank				Run: ICP2-HE_220720B			07/21/22 00:50	
Sodium		47.6	mg/L	1.0	95	80	120			
Sodium, sat. paste		2.07	meq/L	0.043	95	80	120			
Lab ID: LCS-62313	2	Laboratory Control Sample				Run: ICP2-HE_220720B			07/21/22 00:54	
Sodium		541	mg/L	1.0	106	70	130			
Sodium, sat. paste		23.5	meq/L	0.043	106	70	130			
Lab ID: H22070360-001ADup	2	Sample Duplicate				Run: ICP2-HE_220720B			07/21/22 01:02	
Sodium		555	mg/L	1.0				3.0	30	
Sodium, sat. paste		24.1	meq/L	0.043				3.0	30	
Lab ID: H22070368-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220720B			07/21/22 01:13	
Sodium		209	mg/L	1.0	99	70	130			
Sodium, sat. paste		9.07	meq/L	0.043	99	70	130			
Lab ID: H22070368-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220720B			07/21/22 01:17	
Sodium		212	mg/L	1.0	103	70	130	1.8	20	
Sodium, sat. paste		9.23	meq/L	0.043	103	70	130	1.8	20	
Method: SW6010B										Batch: 62321
Lab ID: MB-62321	4	Method Blank				Run: ICP2-HE_220720B			07/20/22 22:44	
Sodium		9	mg/kg	0.2						
Potassium, Available		4	mg/kg	0.6						
Potassium, Extractable		0.01	meq/100g	0.002						
Sodium, Extractable		0.04	meq/100g	0.0009						
Lab ID: LFB-62321	4	Laboratory Fortified Blank				Run: ICP2-HE_220720B			07/20/22 22:48	
Sodium		5900	mg/kg	2.1	118	80	120			

Qualifiers:

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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 62321
Lab ID: LFB-62321	4	Laboratory Fortified Blank				Run: ICP2-HE_220720B				07/20/22 22:48
Potassium, Available		5840	mg/kg	6.4	117	80	120			
Potassium, Extractable		15.0	meq/100g	0.016	117	80	120			
Sodium, Extractable		25.7	meq/100g	0.0091	118	80	120			
Lab ID: LCS-62321	4	Laboratory Control Sample				Run: ICP2-HE_220720B				07/20/22 22:52
Sodium		828	mg/kg	2.0	119	70	130			
Potassium, Available		752	mg/kg	6.2	121	70	130			
Potassium, Extractable		1.93	meq/100g	0.016	115	70	130			
Sodium, Extractable		3.60	meq/100g	0.0088	119	70	130			
Lab ID: H22070360-001Adup	4	Sample Duplicate				Run: ICP2-HE_220720B				07/20/22 22:59
Sodium		474	mg/kg	2.0				3.5	20	
Potassium, Available		88.2	mg/kg	6.2				2.6	20	
Potassium, Extractable		0.226	meq/100g	0.016				2.6	20	
Sodium, Extractable		2.06	meq/100g	0.0088				3.5	20	
Lab ID: H22070368-001AMS2	4	Sample Matrix Spike				Run: ICP2-HE_220720B				07/20/22 23:18
Sodium		5740	mg/kg	2.1	111	75	125			
Potassium, Available		5650	mg/kg	6.4	110	75	125			
Potassium, Extractable		14.5	meq/100g	0.016	110	75	125			
Sodium, Extractable		24.9	meq/100g	0.0091	111	75	125			
Lab ID: H22070368-001AMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-HE_220720B				07/20/22 23:22
Sodium		5770	mg/kg	2.1	112	75	125	0.6	20	
Potassium, Available		5670	mg/kg	6.4	110	75	125	0.3	20	
Potassium, Extractable		14.5	meq/100g	0.016	110	75	125	0.3	20	
Sodium, Extractable		25.1	meq/100g	0.0091	112	75	125	0.6	20	

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: ICPMS205-H_220725C		
Lab ID: ICV	4	Initial Calibration Verification Standard								07/25/22 15:45
Copper		0.0596	mg/L	0.0010	99	90	110			
Iron		0.292	mg/L	0.0043	97	90	110			
Manganese		0.294	mg/L	0.0010	98	90	110			
Zinc		0.0589	mg/L	0.0013	98	90	110			
Lab ID: ICSA	4	Interference Check Sample A								07/25/22 15:52
Copper		-0.000613	mg/L	0.0010						
Iron		97.1	mg/L	0.0043	97	70	130			
Manganese		0.000249	mg/L	0.0010		0	0			
Zinc		0.0000167	mg/L	0.0013						
Lab ID: ICSAB	4	Interference Check Sample AB								07/25/22 15:57
Copper		0.0185	mg/L	0.0010	92	70	130			
Iron		98.0	mg/L	0.0043	98	70	130			
Manganese		0.0196	mg/L	0.0010	98	70	130			
Zinc		0.00866	mg/L	0.0013	87	70	130			
Lab ID: CCV	4	Continuing Calibration Verification Standard								07/25/22 16:04
Copper		0.0506	mg/L	0.0010	101	90	110			
Iron		1.30	mg/L	0.0043	100	90	110			
Manganese		0.0503	mg/L	0.0010	101	90	110			
Zinc		0.0489	mg/L	0.0013	98	90	110			
Method: SW6020										Batch: 62320
Lab ID: MB-62320	4	Method Blank				Run: ICPMS205-H_220725C				07/25/22 21:26
Copper		0.06	mg/kg	0.01						
Iron		ND	mg/kg	0.3						
Manganese		ND	mg/kg	0.03						
Zinc		0.1	mg/kg	0.06						
Lab ID: LCS-62320	4	Laboratory Control Sample				Run: ICPMS205-H_220725C				07/25/22 21:28
Copper		6.12	mg/kg	0.10	107	70	130			
Iron		90.2	mg/kg	1.0	77	70	130			
Manganese		9.04	mg/kg	0.10	99	70	130			
Zinc		9.87	mg/kg	0.10	104	70	130			
Lab ID: LFB-62320	2	Laboratory Fortified Blank				Run: ICPMS205-H_220725C				07/25/22 21:38
Copper		5.60	mg/kg	0.10	112	80	120			
Zinc		5.36	mg/kg	0.10	107	80	120			
post-extraction spike										
Lab ID: H22070360-001AMS	2	Sample Matrix Spike				Run: ICPMS205-H_220725C				07/25/22 21:40
Copper		7.39	mg/kg	0.10	110	75	125			
Zinc		5.95	mg/kg	0.10	94	75	125			
post-extraction spike										
Lab ID: H22070360-001Adup	4	Sample Duplicate				Run: ICPMS205-H_220725C				07/26/22 14:12
Copper		2.03	mg/kg	0.10				1.3	20	
Iron		21.8	mg/kg	1.0				1.7	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **SW6020**										Batch: 62320
Lab ID: **H22070360-001Adup**	4	Sample Duplicate				Run: ICPMS205-H_220725C			07/26/22 14:12	
Manganese		1.41	mg/kg	0.10				2.3	20	
Zinc		0.608	mg/kg	0.11				13	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: USDA20a										Batch: 62313
Lab ID: H22070360-001ADUP	Sample Duplicate					Run: SOIL CALC_220726A			07/26/22 13:14	
Exchangeable Sodium Percentage		8.20	%	0.10				10	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: USDA23c										Batch: 62377
Lab ID: MB-62377	2	Method Blank				Run: MAN-TECH_220722A				07/22/22 07:58
Neutralization Potential		0.2	Tons/1000T	0.05						
Lime as CaCO3		0.02	%	0.005						
Lab ID: LCS-62377	2	Laboratory Control Sample				Run: MAN-TECH_220722A				07/22/22 08:05
Neutralization Potential		53.4	Tons/1000T	0.10	113	80	120			
Lime as CaCO3		5.34	%	0.010	113	80	120			
Lab ID: H22070360-001ADUP	2	Sample Duplicate				Run: MAN-TECH_220722A				07/22/22 08:57
Neutralization Potential		93.8	Tons/1000T	0.10				3.2	20	
Lime as CaCO3		9.38	%	0.010				3.2	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070360 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **USDA27a**										Batch: 62313
Lab ID: **LCS-62313**		Laboratory Control Sample				Run: SOIL DRYING OVEN 2_22072				07/19/22 07:59
Saturation		40.4	%	0.10	97	80	120			
Lab ID: **H22070360-001ADUP**		Sample Duplicate				Run: SOIL DRYING OVEN 2_22072				07/19/22 07:59
Saturation		39.5	%	0.10				1.8	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Entrada Consulting Group

H22070360

Login completed by: Skyler T. Pester
Reviewed by: BL2000\spester
Reviewed Date: 8/2/2022

Date Received: 7/12/2022
Received by: RMF
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Applicable ☑
Container/Temp Blank temperature:	16.5°C Melted Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

No time listed on COC when samples were relinquished. Sample ID on container is "20220711 - Urie Pit", Sample ID on COC is "Urie Pit" Sample logged in with adidtional information from sample container. 7/14/2022 STP.

ENERGY LAB
Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Account Information (Billing information)

Company/Name	Entrada Consulting Group
Contact	Tim Dobransky
Phone	970.270.2986
Mailing Address	330 Grand Avenue, Suite C
City, State, Zip	Grand Junction, CO 81501
Email	tdobransky@entradainc.com
Receive Invoice	☐Hard Copy ☐Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	
Quote	H15424
Bottle Order	

Report Information (if different than Account Information)

Company/Name	
Contact	
Phone	
Mailing Address	
City, State, Zip	
Email	
Receive Report	☐Hard Copy ☐Email
Special Report/Formats:	☐ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____

Comments

See quote H15424 for required methods.

Quote Attached

H22070360

Project Information

Project Name, PWSID, Permit, etc.	Chevron Wilson Creek Background Soil
Sampler Name	Dobransky
Sampler Phone	970.270.2986
Sample Origin State	CO
EPA/State Compliance	☐ Yes ☒ No

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	ESP%/CEC/pH	%OM, NO3, NH4, P, K	Zn, Fe, Mn, Cu, Cl	% calcium carbonate equiv - gravimetric	Texture - by Hydrometer - report as USDA					See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1 Urie Pit	07/11/2022	1230	1	S	✓	✓	✓	✓	✓					●		
2																
3																
4																
5																
6																
7																
8																
9																

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Byron Abeyta	7/11/22	[signature]			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Kayla Rosado	7/12/22 907	[signature]

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number (cash/check only)
FedEx Ground		Y N C B	Y N	16.5 °C	Y N	Y N NONE	CC Cash Check_____	$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-01/21 v.4

ANALYTICAL REPORT

August 15, 2022

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

Entrada Consulting Group

Sample Delivery Group:	L1517215
Samples Received:	07/21/2022
Project Number:	022-042
Description:	Meeker Pit
Report To:	Tim Dobransky 330 Grand Avenue Suite C Grand Junction, CO 81501

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

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

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

TABLE OF CONTENTS

MEEKER PIT L1517215-01 Solid

Collected by	Collected date/time	Received date/time
C Mace	07/20/22 08:15	07/21/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1898989	1	07/26/22 14:54	07/26/22 14:54	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1901234	5	08/09/22 15:12	08/13/22 11:24	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1899769	1	07/23/22 09:00	07/23/22 11:00	GI	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1901859	1	07/29/22 01:37	07/29/22 07:46	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1900102	1	07/24/22 18:17	07/25/22 19:49	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1902587	1	07/28/22 19:56	07/29/22 12:21	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1900107	5	07/24/22 18:21	07/25/22 01:57	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1899210	1	07/21/22 17:43	07/23/22 00:06	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1899607	1	07/21/22 17:43	07/22/22 20:16	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1901006	5	07/26/22 23:05	07/27/22 12:49	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1900512	1	07/26/22 04:49	07/26/22 21:52	DSH	Mt. Juliet, TN

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

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.51		1	07/26/2022 14:54	WG1898989

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		5.00	5	08/13/2022 11:24	WG1901234

Sample Narrative:

L1517215-01 WG1901234: Dilution due to matrix.

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.39	T8	1	07/23/2022 11:00	WG1899769

Sample Narrative:

L1517215-01 WG1899769: 7.39 at 24.8C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	5270		10.0	1	07/29/2022 07:46	WG1901859

Sample Narrative:

L1517215-01 WG1901859: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	139		0.500	1	07/25/2022 19:49	WG1900102
Cadmium	ND		0.500	1	07/25/2022 19:49	WG1900102
Copper	16.5		2.00	1	07/25/2022 19:49	WG1900102
Lead	10.6		0.500	1	07/25/2022 19:49	WG1900102
Nickel	16.1		2.00	1	07/25/2022 19:49	WG1900102
Selenium	ND		2.00	1	07/25/2022 19:49	WG1900102
Silver	ND		1.00	1	07/25/2022 19:49	WG1900102
Zinc	57.8		5.00	1	07/25/2022 19:49	WG1900102

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.867		0.200	1	07/29/2022 12:21	WG1902587

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.97		1.00	5	07/25/2022 01:57	WG1900107

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	07/23/2022 00:06	WG1899210

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*95.8*		*77.0-120*		*07/23/2022 00:06*	WG1899210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	07/22/2022 20:16	WG1899607
Toluene	ND		0.00500	1	07/22/2022 20:16	WG1899607
Ethylbenzene	ND		0.00250	1	07/22/2022 20:16	WG1899607
Xylenes, Total	ND		0.00650	1	07/22/2022 20:16	WG1899607
1,2,4-Trimethylbenzene	ND		0.00500	1	07/22/2022 20:16	WG1899607
1,3,5-Trimethylbenzene	ND		0.00500	1	07/22/2022 20:16	WG1899607
(S) Toluene-d8	*106*		*75.0-131*		*07/22/2022 20:16*	WG1899607
(S) 4-Bromofluorobenzene	*96.8*		*67.0-138*		*07/22/2022 20:16*	WG1899607
(S) 1,2-Dichloroethane-d4	*88.9*		*70.0-130*		*07/22/2022 20:16*	WG1899607

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.8	B	20.0	5	07/27/2022 12:49	WG1901006
C28-C36 Motor Oil Range	247		20.0	5	07/27/2022 12:49	WG1901006
(S) o-Terphenyl	*88.6*		*18.0-148*		*07/27/2022 12:49*	WG1901006

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Acenaphthene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Acenaphthylene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Benzo(a)anthracene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Benzo(a)pyrene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Benzo(b)fluoranthene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Benzo(g,h,i)perylene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Benzo(k)fluoranthene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Chrysene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Dibenz(a,h)anthracene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Fluoranthene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Fluorene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Naphthalene	ND		0.0200	1	07/26/2022 21:52	WG1900512
Phenanthrene	ND		0.00600	1	07/26/2022 21:52	WG1900512
Pyrene	ND		0.00600	1	07/26/2022 21:52	WG1900512
1-Methylnaphthalene	ND		0.0200	1	07/26/2022 21:52	WG1900512
2-Methylnaphthalene	ND		0.0200	1	07/26/2022 21:52	WG1900512
2-Chloronaphthalene	ND		0.0200	1	07/26/2022 21:52	WG1900512
(S) p-Terphenyl-d14	*72.5*		*23.0-120*		*07/26/2022 21:52*	WG1900512
(S) Nitrobenzene-d5	*61.3*		*14.0-149*		*07/26/2022 21:52*	WG1900512
(S) 2-Fluorobiphenyl	*71.0*		*34.0-125*		*07/26/2022 21:52*	WG1900512

QUALITY CONTROL SUMMARY

L1517215-01

Method Blank (MB)

(MB) R3826149-1 08/13/22 08:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1516783-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1516783-01 08/13/22 08:59 • (DUP) R3826149-3 08/13/22 09:04

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

L1516789-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1516789-03 08/13/22 10:27 • (DUP) R3826149-8 08/13/22 10:48

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

Laboratory Control Sample (LCS)

(LCS) R3826149-2 08/13/22 08:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1516785-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516785-02 08/13/22 09:25 • (MS) R3826149-4 08/13/22 09:40 • (MSD) R3826149-5 08/13/22 09:45

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	ND	20.1	18.6	100	93.0	1	75.0-125			7.63	20

L1516785-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1516785-02 08/13/22 09:25 • (MS) R3826149-7 08/13/22 09:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	638	ND	598	93.7	50	75.0-125	

L1517284-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1517284-03 07/23/22 11:00 • (DUP) R3818433-2 07/23/22 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.52	7.49	1	0.400		1

Sample Narrative:

OS: 7.52 at 24.7C

DUP: 7.49 at 24.8C

L1517801-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1517801-03 07/23/22 11:00 • (DUP) R3818433-3 07/23/22 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.89	7.91	1	0.253		1

Sample Narrative:

OS: 7.89 at 24.4C

DUP: 7.91 at 24.4C

Laboratory Control Sample (LCS)

(LCS) R3818433-1 07/23/22 11:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.92	99.2	99.0-101	

Sample Narrative:

LCS: 9.92 at 24C

QUALITY CONTROL SUMMARY

L1517215-01

Method Blank (MB)

(MB) R3820470-1 07/29/22 07:46

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1516783-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1516783-02 07/29/22 07:46 • (DUP) R3820470-3 07/29/22 07:46

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	3020	2970	1	1.70		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1517244-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1517244-08 07/29/22 07:46 • (DUP) R3820470-4 07/29/22 07:46

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	9220	9140	1	0.871		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3820470-2 07/29/22 07:46

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	286	286	99.9	85.0-115	

Sample Narrative:

LCS: at 25C

QUALITY CONTROL SUMMARY

L1517215-01

Method Blank (MB)

(MB) R3819006-1 07/25/22 19:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3819006-2 07/25/22 19:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	102	102	80.0-120	
Cadmium	100	98.1	98.1	80.0-120	
Copper	100	101	101	80.0-120	
Lead	100	98.3	98.3	80.0-120	
Nickel	100	100	100	80.0-120	
Selenium	100	97.9	97.9	80.0-120	
Silver	20.0	18.8	94.2	80.0-120	
Zinc	100	97.1	97.1	80.0-120	

L1516291-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516291-04 07/25/22 19:15 • (MS) R3819006-5 07/25/22 19:23 • (MSD) R3819006-6 07/25/22 19:25

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	97.1	183	198	85.9	101	1	75.0-125			7.82	20
Cadmium	100	ND	91.9	92.7	91.7	92.5	1	75.0-125			0.842	20
Copper	100	20.0	115	116	95.2	95.8	1	75.0-125			0.486	20
Lead	100	10.9	99.8	101	88.9	90.0	1	75.0-125			1.09	20
Nickel	100	13.6	104	107	90.4	93.4	1	75.0-125			2.86	20
Selenium	100	ND	90.2	91.2	90.2	91.2	1	75.0-125			1.18	20
Silver	20.0	ND	17.7	17.9	88.6	89.3	1	75.0-125			0.833	20
Zinc	100	60.1	141	147	80.7	86.7	1	75.0-125			4.12	20

QUALITY CONTROL SUMMARY

L1517215-01

Method Blank (MB)

(MB) R3820745-1 07/29/22 11:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3820745-2 07/29/22 11:13 • (LCSD) R3820745-3 07/29/22 11:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.959	0.963	95.9	96.3	80.0-120			0.401	20

QUALITY CONTROL SUMMARY

L1517215-01

Method Blank (MB)

(MB) R3818645-1 07/25/22 01:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3818645-2 07/25/22 01:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	89.1	89.1	80.0-120	

L1516291-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516291-04 07/25/22 01:12 • (MS) R3818645-5 07/25/22 01:22 • (MSD) R3818645-6 07/25/22 01:26

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	5.48	84.6	85.8	79.1	80.3	5	75.0-125			1.42	20

Method Blank (MB)

(MB) R3820157-2 07/22/22 20:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0515	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3820157-1 07/22/22 19:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.04	91.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1516840-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516840-19 07/22/22 21:50 • (MS) R3820157-3 07/23/22 10:56 • (MSD) R3820157-4 07/23/22 12:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	3.24	3.08	58.9	56.0	1	10.0-151			5.06	28
(S) a,a,a-Trifluorotoluene(FID)					*99.6*	*99.1*		*77.0-120*				

QUALITY CONTROL SUMMARY

L1517215-01

Method Blank (MB)

(MB) R3818444-3 07/22/22 18:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*89.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818444-1 07/22/22 16:44 • (LCSD) R3818444-2 07/22/22 17:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.124	0.130	99.2	104	70.0-123			4.72	20
Toluene	0.125	0.125	0.125	100	100	75.0-121			0.000	20
Ethylbenzene	0.125	0.123	0.129	98.4	103	74.0-126			4.76	20
Xylenes, Total	0.375	0.384	0.400	102	107	72.0-127			4.08	20
1,2,4-Trimethylbenzene	0.125	0.134	0.138	107	110	70.0-126			2.94	20
1,3,5-Trimethylbenzene	0.125	0.129	0.136	103	109	73.0-127			5.28	20
(S) Toluene-d8				*102*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.4*	*94.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*102*	*101*	*70.0-130*				

QUALITY CONTROL SUMMARY

L1517215-01

Method Blank (MB)

(MB) R3819536-1 07/27/22 03:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	2.45	J	1.61	4.00
C28-C36 Motor Oil Range	0.737	J	0.274	4.00
(S) o-Terphenyl	*81.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3819536-2 07/27/22 03:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	51.8	104	50.0-150	
(S) o-Terphenyl			*132*	*18.0-148*	

L1517231-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517231-03 07/27/22 10:46 • (MS) R3819536-3 07/27/22 11:00 • (MSD) R3819536-4 07/27/22 11:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.8	29.9	43.0	44.4	26.3	29.1	1	50.0-150	J6	J6	3.20	20
(S) o-Terphenyl					*67.0*	*69.0*		*18.0-148*				

Method Blank (MB)

(MB) R3819577-2 07/26/22 16:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	*109*			*23.0-120*
(S) Nitrobenzene-d5	*62.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*82.4*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R3819577-1 07/26/22 16:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0594	74.3	50.0-126	
Acenaphthene	0.0800	0.0611	76.4	50.0-120	
Acenaphthylene	0.0800	0.0611	76.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0616	77.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0628	78.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0699	87.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0655	81.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0697	87.1	49.0-125	
Chrysene	0.0800	0.0676	84.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0624	78.0	47.0-125	
Fluoranthene	0.0800	0.0624	78.0	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3819577-1 07/26/22 16:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0635	79.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0604	75.5	46.0-125	
Naphthalene	0.0800	0.0562	70.3	50.0-120	
Phenanthrene	0.0800	0.0614	76.8	47.0-120	
Pyrene	0.0800	0.0699	87.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0588	73.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0565	70.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0619	77.4	50.0-120	
(S) p-Terphenyl-d14			*112*	*23.0-120*	
(S) Nitrobenzene-d5			*74.7*	*14.0-149*	
(S) 2-Fluorobiphenyl			*87.8*	*34.0-125*	

L1517292-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517292-01 07/26/22 18:58 • (MS) R3819577-3 07/26/22 19:16 • (MSD) R3819577-4 07/26/22 19:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0780	ND	0.0442	0.0469	56.7	60.1	1	10.0-145			5.93	30
Acenaphthene	0.0780	ND	0.0381	0.0450	48.8	57.7	1	14.0-127			16.6	27
Acenaphthylene	0.0780	ND	0.0365	0.0431	46.8	55.3	1	21.0-124			16.6	25
Benzo(a)anthracene	0.0780	ND	0.0509	0.0504	65.3	64.6	1	10.0-139			0.987	30
Benzo(a)pyrene	0.0780	ND	0.0556	0.0538	71.3	69.0	1	10.0-141			3.29	31
Benzo(b)fluoranthene	0.0780	ND	0.0585	0.0573	75.0	73.5	1	10.0-140			2.07	36
Benzo(g,h,i)perylene	0.0780	ND	0.0588	0.0556	75.4	71.3	1	10.0-140			5.59	33
Benzo(k)fluoranthene	0.0780	ND	0.0632	0.0612	81.0	78.5	1	10.0-137			3.22	31
Chrysene	0.0780	ND	0.0614	0.0600	78.7	76.9	1	10.0-145			2.31	30
Dibenz(a,h)anthracene	0.0780	ND	0.0578	0.0536	74.1	68.7	1	10.0-132			7.54	31
Fluoranthene	0.0780	ND	0.0461	0.0503	59.1	64.5	1	10.0-153			8.71	33
Fluorene	0.0780	ND	0.0431	0.0494	55.3	63.3	1	11.0-130			13.6	29
Indeno(1,2,3-cd)pyrene	0.0780	ND	0.0518	0.0488	66.4	62.6	1	10.0-137			5.96	32
Naphthalene	0.0780	ND	0.0322	0.0378	41.3	48.5	1	10.0-135			16.0	27
Phenanthrene	0.0780	ND	0.0442	0.0491	56.7	62.9	1	10.0-144			10.5	31
Pyrene	0.0780	ND	0.0533	0.0584	68.3	74.9	1	10.0-148			9.13	35
1-Methylnaphthalene	0.0780	ND	0.0351	0.0424	45.0	54.4	1	10.0-142			18.8	28
2-Methylnaphthalene	0.0780	ND	0.0346	0.0411	44.4	52.7	1	10.0-137			17.2	28
2-Chloronaphthalene	0.0780	ND	0.0405	0.0480	51.9	61.5	1	29.0-120			16.9	24
(S) p-Terphenyl-d14					*85.5*	*90.9*		*23.0-120*				
(S) Nitrobenzene-d5					*48.1*	*42.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*53.9*	*60.1*		*34.0-125*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: **Meeker Pit**

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project # 022-042

Lab Project #

Collected by (print): **C Mace**

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 VOCs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	Soil TPH Table 915 (GRO/DRO/ORO)	SAR/EC/pH	Table 915 BTEX, TMBs				Remarks	Sample # (lab only)
Meeker Pit	**Grab**	**SS**	6-12"	**7/20/22**	0815	**3**	X	X	X	X	X	X	X					-01

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L1517215

C192

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Rush Please

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
[signature]	20220720	1600	[signature]		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7 °C Bottles Received:	If preservation required by Login: Date/Time
[signature]	7/20/22	1700		2.7+0=2.7 3	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: / Condition: NCF / OK
			P. Ramsey	7-21-22 0915	

ANALYTICAL SUMMARY REPORT

August 02, 2022

Entrada Consulting Group
1843 Sunlight Dr.
Longmont, CO 80504-2090

Work Order: H22070658 Quote ID: H15424

Project Name: Meeker pit

Energy Laboratories Inc Helena MT received the following 1 sample for Entrada Consulting Group on 7/21/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H22070658-001	Meeker Pit	07/20/22 8:15	07/21/22	Soil	ABDPTA Extractable Metals Cation Exchange Capacity Metals, NH4OAC Extractable Metals, Saturated Paste Exchangeable Sodium Percentage Anions, Water Extractable Lime as CaCO3 Ammonia as N, KCL Extract Nitrate as N, KCL Extract Organic Carbon/Matter Walkley-Black pH, Saturated Paste Phosphorus-Olsen ABDTPA extraction for metals ASA3-5.2 NH4AC Soil Extraction for CEC USDA19 DI Water Soil Extract ASA10-3 KCL Soil Extract ASA33-3 Lime Percentage USDA23c NaHCO3 Soil Extract ASA24-5 Ammonium Acetate Extraction ASA13-3 Total Organic Matter Prep ASA29-3 Particle Size Analysis / Texture Prep ASA15-5 Saturated Paste Extraction ASA Particle Size Analysis / Texture Saturation Percentage Soil Preparation USDA1

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Entrada Consulting Group
Project: Meeker pit
Lab ID: H22070658-001
Client Sample ID: Meeker Pit

Report Date: 08/02/22
Collection Date: 07/20/22 08:15
DateReceived: 07/21/22
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	44	%		1		ASA15-5	07/26/22 14:39 / sah
Silt	29	%		1		ASA15-5	07/26/22 14:39 / sah
Clay	27	%		1		ASA15-5	07/26/22 14:39 / sah
Texture	CL			1		ASA15-5	07/26/22 14:39 / sah
SATURATED PASTE							
Saturation	57.5	%		0.1		USDA27a	07/26/22 08:52 / sah
SATURATED PASTE							
pH, sat. paste	7.1	s.u.		0.1		ASA10-3	07/26/22 09:26 / jjp
WATER EXTRACTABLE							
Chloride, 1:2	411	mg/kg		1		E300.0	07/25/22 20:38 / SRW
SATURATED PASTE EXTRACT							
Sodium, sat. paste	11.7	meq/L		0.04		SW6010B	07/26/22 19:56 / sld
CHEMICAL CHARACTERISTICS							
Potassium, Available	4340	mg/kg	D	3		SW6010B	08/02/22 12:57 / sld
Sodium, Extractable	0.999	meq/100g	D	0.009		SW6010B	07/29/22 02:52 / sld
Cation Exchange Capacity	31.1	meq/100g	D	0.6		SW6010B	07/26/22 21:08 / sld
Organic Matter	6.5	%		0.2		ASA29-3	07/26/22 13:10 / sah
Exchangeable Sodium Percentage	1.1	%		0.1		USDA20a	07/26/22 13:19 / stp
Lime as CaCO3	5.80	%		0.01		USDA23c	07/27/22 10:47 / jjp
NUTRIENTS							
Phosphorus, Olsen	330	mg/kg-dry	D	5		ASA24-5	08/01/22 15:25 / JAR
Ammonia as N, KCL Extract	4.9	mg/kg-dry		0.5		ASA33-7	08/02/22 12:20 / JAR
Nitrate as N, KCL Extract	590	mg/kg-dry	D	10		ASA33-8	07/26/22 11:05 / JAR
ABDTPA EXTRACTABLE METALS							
Copper	2.6	mg/kg		0.1		SW6020	07/25/22 22:07 / dck
Iron	126	mg/kg		1		SW6020	07/25/22 22:07 / dck
Manganese	14.8	mg/kg		0.1		SW6020	07/25/22 22:07 / dck
Zinc	11.0	mg/kg		0.1		SW6020	07/30/22 20:00 / dck

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
D - Reporting Limit (RL) increased due to sample matrix
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA10-3							al Run: SOIL PH METER - ORION A211_220726A			
Lab ID: ICV_1_220725_1		Initial Calibration Verification Standard								07/26/22 09:09
pH, sat. paste		7.05	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV_1_220725_1		Continuing Calibration Verification Standard								07/26/22 09:10
pH, sat. paste		7.04	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV1_1_220725_1		Continuing Calibration Verification Standard								07/26/22 09:10
pH, sat. paste		4.01	s.u.	0.10	100	97.5	102.5			
Method: ASA10-3										Batch: 62449
Lab ID: LCS-62449		Laboratory Control Sample				Run: SOIL PH METER - ORION A2				07/26/22 09:11
pH, sat. paste		8.07	s.u.	0.10	101	95	105			
Lab ID: H22070659-001ADUP		Sample Duplicate				Run: SOIL PH METER - ORION A2				07/26/22 09:27
pH, sat. paste		7.74	s.u.	0.10				0.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**ASA15-5**										Batch: 62446
Lab ID:	**H22070668-001ADUP**	4	Sample Duplicate				Run: SOIL HYDROMETER_220727			07/26/22 14:39	
Sand			56.0	%	1.0				0.0	20	
Silt			27.0	%	1.0				3.8	20	
Clay			17.0	%	1.0				5.7	20	
Texture			SL		1.0						
Lab ID:	**LCS-62446**	3	Laboratory Control Sample				Run: SOIL HYDROMETER_220727			07/26/22 14:39	
Sand			46.0	%	1.0	96	70	130			
Silt			29.0	%	1.0	100	70	130			
Clay			25.0	%	1.0	109	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA24-5								Analytical Run: SEAL AA500_220801A		
Lab ID: CCV		Continuing Calibration Verification Standard							08/01/22 14:52	
Phosphorus, Olsen		2.5	mg/kg-dry	1.0	99	85	115			
Method: ASA24-5									Batch: 62443	
Lab ID: MB-62443		Method Blank				Run: SEAL AA500_220801A			08/01/22 14:58	
Phosphorus, Olsen		ND	mg/kg-dry	0.05						
Lab ID: LCS-62443		Laboratory Control Sample				Run: SEAL AA500_220801A			08/01/22 15:03	
Phosphorus, Olsen		54	mg/kg-dry	1.0	122	70	130			
Lab ID: H22070659-001ADUP		Sample Duplicate				Run: SEAL AA500_220801A			08/01/22 15:36	
Phosphorus, Olsen		9.4	mg/kg-dry	1.0				6.4	30	
Lab ID: H22070659-001AMS		Sample Matrix Spike				Run: SEAL AA500_220801A			08/01/22 15:37	
Phosphorus, Olsen		50	mg/kg-dry	1.0	99	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA29-3										Batch: 62445
Lab ID: LCS-62445		Laboratory Control Sample				Run: MISC SOILS_220726A				07/26/22 13:10
Organic Matter		1.13	%	0.17	94	70	130			
Lab ID: MB-62445		Method Blank				Run: MISC SOILS_220726A				07/26/22 13:10
Organic Matter		ND	%	0.2						
Lab ID: H22070568-001ADUP		Sample Duplicate				Run: MISC SOILS_220726A				07/26/22 13:10
Organic Matter		5.79	%	0.17						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA33-7									Analytical Run: FIA203-HE_220802A	
Lab ID: ICV		Initial Calibration Verification Standard							08/02/22 12:10	
Ammonia as N, KCL Extract		1.03	mg/kg-dry	0.50	103	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							08/02/22 12:13	
Ammonia as N, KCL Extract		0.512	mg/kg-dry	0.50	102	90	110			
Method: ASA33-7										Batch: 62441
Lab ID: MB-62441		Method Blank				Run: FIA203-HE_220802A			08/02/22 12:15	
Ammonia as N, KCL Extract		0.2	mg/kg-dry	0.1						
Lab ID: LCS-62441		Laboratory Control Sample				Run: FIA203-HE_220802A			08/02/22 12:17	
Ammonia as N, KCL Extract		6.73	mg/kg-dry	0.50	90	70	130			
Lab ID: H22070658-001AMS		Sample Matrix Spike				Run: FIA203-HE_220802A			08/02/22 12:21	
Ammonia as N, KCL Extract		9.80	mg/kg-dry	0.50	97	80	120			
Lab ID: H22070680-004ADUP		Sample Duplicate				Run: FIA203-HE_220802A			08/02/22 12:28	
Ammonia as N, KCL Extract		1.63	mg/kg-dry	0.50				3.7	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA33-8									Analytical Run: FIA203-HE_220726A	
Lab ID: ICV		Initial Calibration Verification Standard							07/26/22 10:55	
Nitrate as N, KCL Extract		1.0	mg/kg-dry	1.0	101	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/26/22 11:19	
Nitrate as N, KCL Extract		0.48	mg/kg-dry	1.0	95	90	110			
Method: ASA33-8									Batch: 62441	
Lab ID: H22070680-001AMS		Sample Matrix Spike				Run: FIA203-HE_220726A			07/26/22 11:31	
Nitrate as N, KCL Extract		7.63	mg/kg-dry	1.0	87	80	120			
Lab ID: MB-62441		Method Blank				Run: FIA203-HE_220726A			07/26/22 10:59	
Nitrate as N, KCL Extract		0.4	mg/kg-dry	0.1						
Lab ID: LCS-62441		Laboratory Control Sample				Run: FIA203-HE_220726A			07/26/22 11:00	
Nitrate as N, KCL Extract		7.9	mg/kg-dry	1.0	98	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC METROHM_220725A		
Lab ID: ICV		Initial Calibration Verification Standard							07/25/22 17:17	
Chloride		99.0	mg/L	1.0	99	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/25/22 18:00	
Chloride		49.1	mg/L	1.0	98	90	110			
Method: E300.0										Batch: 62419
Lab ID: MB-62419		Method Blank				Run: IC METROHM_220725A			07/25/22 20:09	
Chloride, 1:2		0.4	mg/kg	0.008						
Lab ID: LCS-62419		Laboratory Control Sample				Run: IC METROHM_220725A			07/25/22 20:24	
Chloride, 1:2		114	mg/kg	1.0	107	70	130			
Lab ID: H22070674-003ADUP		Sample Duplicate				Run: IC METROHM_220725A			07/25/22 21:50	
Chloride, 1:2		2.16	mg/kg	1.0				1.9	20	
Lab ID: H22070674-003AMS		Sample Matrix Spike				Run: IC METROHM_220725A			07/25/22 22:05	
Chloride, 1:2		472	mg/kg	1.0	94	90	110			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Analytical Run: ICP2-HE_220726A	
Lab ID: ICV		Initial Calibration Verification Standard							07/26/22 13:58	
Sodium		39.4	mg/L	1.0	98	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/26/22 14:02	
Sodium		24.6	mg/L	1.0	98	90	110			
Lab ID: ICSA		Interference Check Sample A							07/26/22 14:13	
Sodium		0.0902	mg/L	1.0		0	0			
Lab ID: ICSAB		Interference Check Sample AB							07/26/22 14:17	
Sodium		19.9	mg/L	1.0	99	80	120			
Method: SW6010B									Batch: 62440	
Lab ID: MB-62440	2	Method Blank				Run: ICP2-HE_220726A			07/26/22 20:57	
Sodium		ND	mg/kg	7						
Cation Exchange Capacity		ND	meq/100g	0.6						
Lab ID: LFB-62440		Laboratory Fortified Blank				Run: ICP2-HE_220726A			07/26/22 21:00	
Sodium		513	mg/kg	7.2	103	80	120			
Lab ID: LCS-62440	2	Laboratory Control Sample				Run: ICP2-HE_220726A			07/26/22 21:04	
Sodium		266	mg/kg	7.0	96	70	130			
Cation Exchange Capacity		23.1	meq/100g	0.61	96	70	130			
Lab ID: H22070658-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220726A			07/26/22 21:23	
Sodium		907	mg/kg	7.2	110	75	125			
Cation Exchange Capacity		78.9	meq/100g	0.63	110	75	125			
Lab ID: H22070658-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220726A			07/26/22 21:27	
Sodium		873	mg/kg	7.2	103	75	125	3.8	20	
Cation Exchange Capacity		75.9	meq/100g	0.63	103	75	125	3.8	20	
Lab ID: H22070659-001Adup	2	Sample Duplicate				Run: ICP2-HE_220726A			07/26/22 21:34	
Sodium		293	mg/kg	7.0				2.2	30	
Cation Exchange Capacity		25.5	meq/100g	0.61				2.2	30	
Method: SW6010B									Batch: 62449	
Lab ID: MB-62449	2	Method Blank				Run: ICP2-HE_220726A			07/26/22 18:29	
Sodium		0.03	mg/L	0.02						
Sodium, sat. paste		0.001	meq/L	0.0009						
Lab ID: LFB-62449	2	Laboratory Fortified Blank				Run: ICP2-HE_220726A			07/26/22 18:33	
Sodium		52.4	mg/L	1.0	105	80	120			
Sodium, sat. paste		2.28	meq/L	0.043	105	80	120			
Lab ID: LCS-62449	2	Laboratory Control Sample				Run: ICP2-HE_220726A			07/26/22 18:37	
Sodium		543	mg/L	1.0	107	70	130			
Sodium, sat. paste		23.6	meq/L	0.043	107	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 62449
Lab ID: H22070590-004AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220726A			07/26/22 19:15	
Sodium		417	mg/L	1.0	145	70	130			S
Sodium, sat. paste		18.1	meq/L	0.043	145	70	130			S
Lab ID: H22070590-004AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220726A			07/26/22 19:18	
Sodium		416	mg/L	1.0	145	70	130	0.1	20	S
Sodium, sat. paste		18.1	meq/L	0.043	145	70	130	0.1	20	S
Lab ID: H22070590-006Adup	2	Sample Duplicate				Run: ICP2-HE_220726A			07/26/22 19:30	
Sodium		10.8	mg/L	1.0				0.6	30	
Sodium, sat. paste		0.471	meq/L	0.043				0.6	30	
Method: SW6010B										Analytical Run: ICP2-HE_220728B
Lab ID: ICV		Initial Calibration Verification Standard							07/28/22 11:07	
Sodium		39.9	mg/L	1.0	100	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/28/22 11:11	
Sodium		26.1	mg/L	1.0	104	90	110			
Lab ID: ICSA		Interference Check Sample A							07/28/22 11:22	
Sodium		0.0841	mg/L	1.0		0	0			
Lab ID: ICSAB		Interference Check Sample AB							07/28/22 11:26	
Sodium		20.2	mg/L	1.0	101	80	120			
Method: SW6010B										Batch: 62444
Lab ID: MB-62444	2	Method Blank				Run: ICP2-HE_220728B			07/29/22 02:41	
Sodium		9	mg/kg	0.2						
Sodium, Extractable		0.04	meq/100g	0.0009						
Lab ID: LFB-62444	2	Laboratory Fortified Blank				Run: ICP2-HE_220728B			07/29/22 02:45	
Sodium		5930	mg/kg	2.1	119	80	120			
Sodium, Extractable		25.8	meq/100g	0.0091	119	80	120			
Lab ID: LCS-62444	2	Laboratory Control Sample				Run: ICP2-HE_220728B			07/29/22 02:49	
Sodium		775	mg/kg	2.0	111	70	130			
Sodium, Extractable		3.37	meq/100g	0.0088	111	70	130			
Lab ID: H22070659-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220728B			07/29/22 03:12	
Sodium		6280	mg/kg	2.1	114	75	125			
Sodium, Extractable		27.3	meq/100g	0.0091	114	75	125			
Lab ID: H22070659-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220728B			07/29/22 03:15	
Sodium		6550	mg/kg	2.1	119	75	125	4.3	20	
Sodium, Extractable		28.5	meq/100g	0.0091	119	75	125	4.3	20	
Lab ID: H22070668-001Adup	2	Sample Duplicate				Run: ICP2-HE_220728B			07/29/22 03:23	
Sodium		30.1	mg/kg	2.0				2.6	20	
Sodium, Extractable		0.131	meq/100g	0.0088				2.6	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 62565
Lab ID: MB-62565	2	Method Blank				Run: ICP2-HE_220802A			08/02/22 12:46	
Potassium, Available		4	mg/kg	0.3						
Potassium, Extractable		0.01	meq/100g	0.0008						
Lab ID: LFB-62565	2	Laboratory Fortified Blank				Run: ICP2-HE_220802A			08/02/22 12:50	
Potassium, Available		2780	mg/kg	3.2	111	80	120			
Potassium, Extractable		7.13	meq/100g	0.0082	112	80	120			
Lab ID: LCS-62565	2	Laboratory Control Sample				Run: ICP2-HE_220802A			08/02/22 12:53	
Potassium, Available		698	mg/kg	3.1	112	70	130			
Potassium, Extractable		1.79	meq/100g	0.0080	107	70	130			
Lab ID: H22070658-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220802A			08/02/22 13:12	
Potassium, Available		7310	mg/kg	3.2	119	75	125			
Potassium, Extractable		18.7	meq/100g	0.0082	119	75	125			
Lab ID: H22070658-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220802A			08/02/22 13:16	
Potassium, Available		7660	mg/kg	3.2	133	75	125	4.6	20	S
Potassium, Extractable		19.6	meq/100g	0.0082	133	75	125	4.6	20	S
Lab ID: H22070668-001Adup	2	Sample Duplicate				Run: ICP2-HE_220802A			08/02/22 13:27	
Potassium, Available		1830	mg/kg	3.1				1.1	20	
Potassium, Extractable		4.70	meq/100g	0.0080				1.1	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: ICPMS205-H_220725C		
Lab ID: ICV	3	Initial Calibration Verification Standard							07/25/22 15:45	
Copper		0.0596	mg/L	0.0010	99	90	110			
Iron		0.292	mg/L	0.0043	97	90	110			
Manganese		0.294	mg/L	0.0010	98	90	110			
Lab ID: ICSA	3	Interference Check Sample A							07/25/22 15:52	
Copper		-0.000613	mg/L	0.0010						
Iron		97.1	mg/L	0.0043	97	70	130			
Manganese		0.000249	mg/L	0.0010		0	0			
Lab ID: ICSAB	3	Interference Check Sample AB							07/25/22 15:57	
Copper		0.0185	mg/L	0.0010	92	70	130			
Iron		98.0	mg/L	0.0043	98	70	130			
Manganese		0.0196	mg/L	0.0010	98	70	130			
Lab ID: CCV	3	Continuing Calibration Verification Standard							07/25/22 16:04	
Copper		0.0506	mg/L	0.0010	101	90	110			
Iron		1.30	mg/L	0.0043	100	90	110			
Manganese		0.0503	mg/L	0.0010	101	90	110			
Method: SW6020										Batch: 62439
Lab ID: MB-62439	4	Method Blank				Run: ICPMS205-H_220725C			07/25/22 21:48	
Copper		ND	mg/kg	0.01						
Iron		ND	mg/kg	0.3						
Manganese		ND	mg/kg	0.03						
Zinc		0.2	mg/kg	0.06						
Lab ID: LCS-62439	4	Laboratory Control Sample				Run: ICPMS205-H_220725C			07/25/22 21:50	
Copper		5.59	mg/kg	0.10	97	70	130			
Iron		93.9	mg/kg	1.0	80	70	130			
Manganese		8.96	mg/kg	0.10	98	70	130			
Zinc		9.60	mg/kg	0.10	101	70	130			
Lab ID: H22070472-025Adup	4	Sample Duplicate				Run: ICPMS205-H_220725C			07/25/22 22:02	
Copper		3.66	mg/kg	0.10				3.7	20	
Iron		45.9	mg/kg	1.0				10	20	
Manganese		1.08	mg/kg	0.10				0.0	20	
Zinc		11.7	mg/kg	0.11				2.9	20	
Lab ID: LFB-62439	2	Laboratory Fortified Blank				Run: ICPMS205-H_220725C			07/25/22 22:19	
Copper		11.0	mg/kg	0.10	110	80	120			
Zinc		10.9	mg/kg	0.11	109	80	120			
post-extraction spike										
Lab ID: H22070472-005AMS	2	Sample Matrix Spike				Run: ICPMS205-H_220725C			07/25/22 22:21	
Copper		13.1	mg/kg	0.10	110	75	125			
Zinc		16.1	mg/kg	0.11	102	75	125			
post-extraction spike										

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **SW6020**								Analytical Run: ICPMS205-H_220730A		
Lab ID: **ICV**		Initial Calibration Verification Standard								07/30/22 17:50
Zinc		0.0623	mg/L	0.0013	104	90	110			
Lab ID: **ICSA**		Interference Check Sample A								07/30/22 17:58
Zinc		0.000706	mg/L	0.0013						
Lab ID: **ICSAB**		Interference Check Sample AB								07/30/22 18:03
Zinc		0.0108	mg/L	0.0013	108	70	130			
Lab ID: **CCV**		Continuing Calibration Verification Standard								07/30/22 18:10
Zinc		0.0507	mg/L	0.0013	101	90	110			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: USDA20a										Batch: 62449
Lab ID: H22070659-001ADUP		Sample Duplicate				Run: SOIL CALC_220729A				07/26/22 13:19
Exchangeable Sodium Percentage		5.60	%	0.10				3.6	20	
Lab ID: LCS-62449		Laboratory Control Sample				Run: SOIL CALC_220729A				07/26/22 13:19
Exchangeable Sodium Percentage		10.4	%	0.10	117	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: USDA23c										Batch: 62435
Lab ID: MB-62435	2	Method Blank				Run: MAN-TECH_220727A				07/27/22 10:32
Neutralization Potential		0.07	Tons/1000T	0.05						
Lime as CaCO3		0.007	%	0.005						
Lab ID: LCS-62435	2	Laboratory Control Sample				Run: MAN-TECH_220727A				07/27/22 10:38
Neutralization Potential		48.2	Tons/1000T	0.10	102	80	120			
Lime as CaCO3		4.82	%	0.010	102	80	120			
Lab ID: H22070659-001ADUP	2	Sample Duplicate				Run: MAN-TECH_220727A				07/27/22 11:04
Neutralization Potential		102	Tons/1000T	0.10				1.2	20	
Lime as CaCO3		10.2	%	0.010				1.2	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070658 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **USDA27a**										Batch: 62449
Lab ID: **LCS-62449**		Laboratory Control Sample				Run: SOIL DRYING OVEN 2_22072				07/26/22 08:52
Saturation		40.7	%	0.10	98	80	120			
Lab ID: **H22070659-001ADUP**		Sample Duplicate				Run: SOIL DRYING OVEN 2_22072				07/26/22 08:53
Saturation		51.5	%	0.10				3.1	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Entrada Consulting Group

H22070658

Login completed by: Wanda Johnson
Reviewed by: spester
Reviewed Date: 8/2/2022

Date Received: 7/21/2022
Received by: RMF
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	13.4°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

No attachment received. wjj 7/21/2022

ENERGY LABORATORIES
Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Page 1 of 1

Account Information *(Billing information)*

Company/Name	Entrada Consulting Group
Contact	Tim Dobransky
Phone	970.270.2986
Mailing Address	330 Grand Avenue, Suite C
City, State, Zip	Grand Junction, CO 81501
Email	tdobransky@entradainc.com
Receive Invoice	☐Hard Copy ☐Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	
Quote	H15424
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	
Contact	
Phone	
Mailing Address	
City, State, Zip	
Email	
Receive Report	☐Hard Copy ☐Email

Special Report/Formats:
☐ LEVEL IV ☐NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

See quote H15424 for required methods.

Quote Attached

Project Information

Project Name, PWSID, Permit, etc.	Meeker Pit
Sampler Name	Mace
Sampler Phone	970.270.2986
Sample Origin State	CO
EPA/State Compliance	☐ Yes ☒ No

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W- Water
S - Soils/ Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

Analysis Requested

	Sample Identification *(Name, Location, Interval, etc.)*	Collection Date	Collection Time	Number of Containers	Matrix *(See Codes Above)*	ESP%/CEC/pH	%OM, NO3, NH4, P, K	Zn, Fe, Mn, Cu, Cl	% calcium carbonate equiv - gravimetric	Texture - by Hydrometer - report as USDA					See Attached	RUSH TAT	ELI LAB ID *Laboratory Use Only*
1	Meeker Pit	07/20/2022	0815	1	S	✓	✓	✓	✓	✓					●		H2207 0658
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	CHRIS MACE	2022 07 20 1400				
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Kayla Fossedal	7/21/22 839	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number *(cash/check only)*
FedExExpress	y	Y (N) C B	Y N	13.4 °C	Y (N)	(Y) N	CC Cash Check_____	$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ANALYTICAL REPORT

August 15, 2022

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

Entrada Consulting Group

Sample Delivery Group:	L1517214
Samples Received:	07/21/2022
Project Number:	022-042
Description:	United Pit
Report To:	Tim Dobransky 330 Grand Avenue Suite C Grand Junction, CO 81501

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

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

Pace Analytical National

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

TABLE OF CONTENTS

UNITED PIT L1517214-01 Solid

Collected by	Collected date/time	Received date/time
C Mace	07/20/22 10:00	07/21/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1898989	1	07/26/22 14:46	07/26/22 14:46	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1901234	1	08/09/22 15:12	08/13/22 11:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1899295	1	07/22/22 12:00	07/22/22 13:00	GI	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1901859	1	07/29/22 01:37	07/29/22 07:46	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1900102	1	07/24/22 18:17	07/25/22 19:46	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1902587	1	07/28/22 19:56	07/29/22 12:18	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1900107	5	07/24/22 18:21	07/25/22 01:53	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1899210	1	07/21/22 17:43	07/22/22 23:43	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1899607	1	07/21/22 17:43	07/22/22 19:55	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1901006	1	07/26/22 23:05	07/27/22 06:03	NH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1900512	1	07/26/22 04:49	07/26/22 18:41	DSH	Mt. Juliet, TN

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

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.11		1	07/26/2022 14:46	WG1898989

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	08/13/2022 11:19	WG1901234

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16	T8	1	07/22/2022 13:00	WG1899295

Sample Narrative:

L1517214-01 WG1899295: 8.16 at 24.9C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3380		10.0	1	07/29/2022 07:46	WG1901859

Sample Narrative:

L1517214-01 WG1901859: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	139		0.500	1	07/25/2022 19:46	WG1900102
Cadmium	ND		0.500	1	07/25/2022 19:46	WG1900102
Copper	14.9		2.00	1	07/25/2022 19:46	WG1900102
Lead	9.25		0.500	1	07/25/2022 19:46	WG1900102
Nickel	17.1		2.00	1	07/25/2022 19:46	WG1900102
Selenium	ND		2.00	1	07/25/2022 19:46	WG1900102
Silver	ND		1.00	1	07/25/2022 19:46	WG1900102
Zinc	57.6		5.00	1	07/25/2022 19:46	WG1900102

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.852		0.200	1	07/29/2022 12:18	WG1902587

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.39		1.00	5	07/25/2022 01:53	WG1900107

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	07/22/2022 23:43	WG1899210
(S) a,a,a-Trifluorotoluene(FID)	*98.8*		*77.0-120*		*07/22/2022 23:43*	WG1899210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	07/22/2022 19:55	WG1899607
Toluene	ND		0.00500	1	07/22/2022 19:55	WG1899607
Ethylbenzene	ND		0.00250	1	07/22/2022 19:55	WG1899607
Xylenes, Total	ND		0.00650	1	07/22/2022 19:55	WG1899607
1,2,4-Trimethylbenzene	ND		0.00500	1	07/22/2022 19:55	WG1899607
1,3,5-Trimethylbenzene	ND		0.00500	1	07/22/2022 19:55	WG1899607
(S) Toluene-d8	*103*		*75.0-131*		*07/22/2022 19:55*	WG1899607
(S) 4-Bromofluorobenzene	*95.1*		*67.0-138*		*07/22/2022 19:55*	WG1899607
(S) 1,2-Dichloroethane-d4	*92.1*		*70.0-130*		*07/22/2022 19:55*	WG1899607

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.65	B	4.00	1	07/27/2022 06:03	WG1901006
C28-C36 Motor Oil Range	30.4		4.00	1	07/27/2022 06:03	WG1901006
(S) o-Terphenyl	*79.4*		*18.0-148*		*07/27/2022 06:03*	WG1901006

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Acenaphthene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Acenaphthylene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Benzo(a)anthracene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Benzo(a)pyrene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Benzo(b)fluoranthene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Benzo(g,h,i)perylene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Benzo(k)fluoranthene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Chrysene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Dibenz(a,h)anthracene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Fluoranthene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Fluorene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Naphthalene	ND		0.0200	1	07/26/2022 18:41	WG1900512
Phenanthrene	ND		0.00600	1	07/26/2022 18:41	WG1900512
Pyrene	ND		0.00600	1	07/26/2022 18:41	WG1900512
1-Methylnaphthalene	ND		0.0200	1	07/26/2022 18:41	WG1900512
2-Methylnaphthalene	ND		0.0200	1	07/26/2022 18:41	WG1900512
2-Chloronaphthalene	ND		0.0200	1	07/26/2022 18:41	WG1900512
(S) p-Terphenyl-d14	*82.8*		*23.0-120*		*07/26/2022 18:41*	WG1900512
(S) Nitrobenzene-d5	*59.6*		*14.0-149*		*07/26/2022 18:41*	WG1900512
(S) 2-Fluorobiphenyl	*72.3*		*34.0-125*		*07/26/2022 18:41*	WG1900512

QUALITY CONTROL SUMMARY

L1517214-01

Method Blank (MB)

(MB) R3826149-1 08/13/22 08:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1516783-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1516783-01 08/13/22 08:59 • (DUP) R3826149-3 08/13/22 09:04

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

L1516789-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1516789-03 08/13/22 10:27 • (DUP) R3826149-8 08/13/22 10:48

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

Laboratory Control Sample (LCS)

(LCS) R3826149-2 08/13/22 08:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1516785-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516785-02 08/13/22 09:25 • (MS) R3826149-4 08/13/22 09:40 • (MSD) R3826149-5 08/13/22 09:45

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	ND	20.1	18.6	100	93.0	1	75.0-125			7.63	20

L1516785-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1516785-02 08/13/22 09:25 • (MS) R3826149-7 08/13/22 09:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	638	ND	598	93.7	50	75.0-125	

L1516789-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1516789-04 07/22/22 13:00 • (DUP) R3818210-2 07/22/22 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	8.26	8.24	1	0.242		1

Sample Narrative:

OS: 8.26 at 24.2C

DUP: 8.24 at 24.3C

L1516879-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1516879-05 07/22/22 13:00 • (DUP) R3818210-3 07/22/22 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.17	8.20	1	0.367		1

Sample Narrative:

OS: 8.17 at 24.3C

DUP: 8.2 at 24.3C

Laboratory Control Sample (LCS)

(LCS) R3818210-1 07/22/22 13:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 23.9C

QUALITY CONTROL SUMMARY

L1517214-01

Method Blank (MB)

(MB) R3820470-1 07/29/22 07:46

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1516783-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1516783-02 07/29/22 07:46 • (DUP) R3820470-3 07/29/22 07:46

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	3020	2970	1	1.70		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1517244-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1517244-08 07/29/22 07:46 • (DUP) R3820470-4 07/29/22 07:46

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	9220	9140	1	0.871		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3820470-2 07/29/22 07:46

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	286	286	99.9	85.0-115	

Sample Narrative:

LCS: at 25C

QUALITY CONTROL SUMMARY

L1517214-01

Method Blank (MB)

(MB) R3819006-1 07/25/22 19:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3819006-2 07/25/22 19:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	102	102	80.0-120	
Cadmium	100	98.1	98.1	80.0-120	
Copper	100	101	101	80.0-120	
Lead	100	98.3	98.3	80.0-120	
Nickel	100	100	100	80.0-120	
Selenium	100	97.9	97.9	80.0-120	
Silver	20.0	18.8	94.2	80.0-120	
Zinc	100	97.1	97.1	80.0-120	

L1516291-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516291-04 07/25/22 19:15 • (MS) R3819006-5 07/25/22 19:23 • (MSD) R3819006-6 07/25/22 19:25

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	97.1	183	198	85.9	101	1	75.0-125			7.82	20
Cadmium	100	ND	91.9	92.7	91.7	92.5	1	75.0-125			0.842	20
Copper	100	20.0	115	116	95.2	95.8	1	75.0-125			0.486	20
Lead	100	10.9	99.8	101	88.9	90.0	1	75.0-125			1.09	20
Nickel	100	13.6	104	107	90.4	93.4	1	75.0-125			2.86	20
Selenium	100	ND	90.2	91.2	90.2	91.2	1	75.0-125			1.18	20
Silver	20.0	ND	17.7	17.9	88.6	89.3	1	75.0-125			0.833	20
Zinc	100	60.1	141	147	80.7	86.7	1	75.0-125			4.12	20

QUALITY CONTROL SUMMARY

L1517214-01

Method Blank (MB)

(MB) R3820745-1 07/29/22 11:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3820745-2 07/29/22 11:13 • (LCSD) R3820745-3 07/29/22 11:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.959	0.963	95.9	96.3	80.0-120			0.401	20

QUALITY CONTROL SUMMARY

L1517214-01

Method Blank (MB)

(MB) R3818645-1 07/25/22 01:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3818645-2 07/25/22 01:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	89.1	89.1	80.0-120	

L1516291-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516291-04 07/25/22 01:12 • (MS) R3818645-5 07/25/22 01:22 • (MSD) R3818645-6 07/25/22 01:26

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	5.48	84.6	85.8	79.1	80.3	5	75.0-125			1.42	20

Method Blank (MB)

(MB) R3820157-2 07/22/22 20:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0515	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3820157-1 07/22/22 19:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.04	91.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1516840-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516840-19 07/22/22 21:50 • (MS) R3820157-3 07/23/22 10:56 • (MSD) R3820157-4 07/23/22 12:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	3.24	3.08	58.9	56.0	1	10.0-151			5.06	28
(S) a,a,a-Trifluorotoluene(FID)					*99.6*	*99.1*		*77.0-120*				

QUALITY CONTROL SUMMARY

L1517214-01

Method Blank (MB)

(MB) R3818444-3 07/22/22 18:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*89.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818444-1 07/22/22 16:44 • (LCSD) R3818444-2 07/22/22 17:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.124	0.130	99.2	104	70.0-123			4.72	20
Toluene	0.125	0.125	0.125	100	100	75.0-121			0.000	20
Ethylbenzene	0.125	0.123	0.129	98.4	103	74.0-126			4.76	20
Xylenes, Total	0.375	0.384	0.400	102	107	72.0-127			4.08	20
1,2,4-Trimethylbenzene	0.125	0.134	0.138	107	110	70.0-126			2.94	20
1,3,5-Trimethylbenzene	0.125	0.129	0.136	103	109	73.0-127			5.28	20
(S) Toluene-d8				*102*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.4*	*94.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*102*	*101*	*70.0-130*				

QUALITY CONTROL SUMMARY

L1517214-01

Method Blank (MB)

(MB) R3819536-1 07/27/22 03:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	2.45	J	1.61	4.00
C28-C36 Motor Oil Range	0.737	J	0.274	4.00
(S) o-Terphenyl	*81.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3819536-2 07/27/22 03:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	51.8	104	50.0-150	
(S) o-Terphenyl			*132*	*18.0-148*	

L1517231-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517231-03 07/27/22 10:46 • (MS) R3819536-3 07/27/22 11:00 • (MSD) R3819536-4 07/27/22 11:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.8	29.9	43.0	44.4	26.3	29.1	1	50.0-150	J6	J6	3.20	20
(S) o-Terphenyl					*67.0*	*69.0*		*18.0-148*				

Method Blank (MB)

(MB) R3819577-2 07/26/22 16:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	*109*			*23.0-120*
(S) Nitrobenzene-d5	*62.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*82.4*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R3819577-1 07/26/22 16:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0594	74.3	50.0-126	
Acenaphthene	0.0800	0.0611	76.4	50.0-120	
Acenaphthylene	0.0800	0.0611	76.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0616	77.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0628	78.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0699	87.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0655	81.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0697	87.1	49.0-125	
Chrysene	0.0800	0.0676	84.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0624	78.0	47.0-125	
Fluoranthene	0.0800	0.0624	78.0	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3819577-1 07/26/22 16:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0635	79.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0604	75.5	46.0-125	
Naphthalene	0.0800	0.0562	70.3	50.0-120	
Phenanthrene	0.0800	0.0614	76.8	47.0-120	
Pyrene	0.0800	0.0699	87.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0588	73.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0565	70.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0619	77.4	50.0-120	
(S) p-Terphenyl-d14			*112*	*23.0-120*	
(S) Nitrobenzene-d5			*74.7*	*14.0-149*	
(S) 2-Fluorobiphenyl			*87.8*	*34.0-125*	

L1517292-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517292-01 07/26/22 18:58 • (MS) R3819577-3 07/26/22 19:16 • (MSD) R3819577-4 07/26/22 19:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0780	ND	0.0442	0.0469	56.7	60.1	1	10.0-145			5.93	30
Acenaphthene	0.0780	ND	0.0381	0.0450	48.8	57.7	1	14.0-127			16.6	27
Acenaphthylene	0.0780	ND	0.0365	0.0431	46.8	55.3	1	21.0-124			16.6	25
Benzo(a)anthracene	0.0780	ND	0.0509	0.0504	65.3	64.6	1	10.0-139			0.987	30
Benzo(a)pyrene	0.0780	ND	0.0556	0.0538	71.3	69.0	1	10.0-141			3.29	31
Benzo(b)fluoranthene	0.0780	ND	0.0585	0.0573	75.0	73.5	1	10.0-140			2.07	36
Benzo(g,h,i)perylene	0.0780	ND	0.0588	0.0556	75.4	71.3	1	10.0-140			5.59	33
Benzo(k)fluoranthene	0.0780	ND	0.0632	0.0612	81.0	78.5	1	10.0-137			3.22	31
Chrysene	0.0780	ND	0.0614	0.0600	78.7	76.9	1	10.0-145			2.31	30
Dibenz(a,h)anthracene	0.0780	ND	0.0578	0.0536	74.1	68.7	1	10.0-132			7.54	31
Fluoranthene	0.0780	ND	0.0461	0.0503	59.1	64.5	1	10.0-153			8.71	33
Fluorene	0.0780	ND	0.0431	0.0494	55.3	63.3	1	11.0-130			13.6	29
Indeno(1,2,3-cd)pyrene	0.0780	ND	0.0518	0.0488	66.4	62.6	1	10.0-137			5.96	32
Naphthalene	0.0780	ND	0.0322	0.0378	41.3	48.5	1	10.0-135			16.0	27
Phenanthrene	0.0780	ND	0.0442	0.0491	56.7	62.9	1	10.0-144			10.5	31
Pyrene	0.0780	ND	0.0533	0.0584	68.3	74.9	1	10.0-148			9.13	35
1-Methylnaphthalene	0.0780	ND	0.0351	0.0424	45.0	54.4	1	10.0-142			18.8	28
2-Methylnaphthalene	0.0780	ND	0.0346	0.0411	44.4	52.7	1	10.0-137			17.2	28
2-Chloronaphthalene	0.0780	ND	0.0405	0.0480	51.9	61.5	1	29.0-120			16.9	24
(S) p-Terphenyl-d14					*85.5*	*90.9*		*23.0-120*				
(S) Nitrobenzene-d5					*48.1*	*42.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*53.9*	*60.1*		*34.0-125*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Entrada Consulting Group
330 Grand Avenue, Unit C
Grand Junction, CO 81503

Billing Information: **Same as left**

Report to: **Tim Dobransky**

Email To: **tdobransky@entradainc.com**

Project Description: **United Pit**

City/State Collected: **CO**

Phone: **1-970-270-2986**
Fax:

Client Project # 022-042

Lab Project #

Collected by (print): **C Mace**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 VOCs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	Soil TPH Table 915 (GRO/DRO/ORO)	SAR/EC/pH	Table 915 BTEX, TMBs				Remarks	Sample # (lab only)
United Pit	Grab	SS	6-12"	7/20/22	1000	3	X	X	X	X	X	X	X					-01

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1517244

C193

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Rush Please

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	20220720	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.4/7 °C Bottles Received: 3
	7/20/22	1700		2-2+-0-2.2
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			D.Ramsey	7-21-22 0915

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL SUMMARY REPORT

August 02, 2022

Entrada Consulting Group
1843 Sunlight Dr.
Longmont, CO 80504-2090

Work Order: H22070659 Quote ID: H15424

Project Name: Meeker pit

Energy Laboratories Inc Helena MT received the following 1 sample for Entrada Consulting Group on 7/21/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H22070659-001	United Pit	07/20/22 10:00	07/21/22	Soil	ABDPTA Extractable Metals Cation Exchange Capacity Metals, NH4OAC Extractable Metals, Saturated Paste Exchangeable Sodium Percentage Anions, Water Extractable Lime as CaCO3 Ammonia as N, KCL Extract Nitrate as N, KCL Extract Organic Carbon/Matter Walkley-Black pH, Saturated Paste Phosphorus-Olsen ABDTPA extraction for metals ASA3-5.2 NH4AC Soil Extraction for CEC USDA19 DI Water Soil Extract ASA10-3 KCL Soil Extract ASA33-3 Lime Percentage USDA23c NaHCO3 Soil Extract ASA24-5 Ammonium Acetate Extraction ASA13-3 Total Organic Matter Prep ASA29-3 Particle Size Analysis / Texture Prep ASA15-5 Saturated Paste Extraction ASA Particle Size Analysis / Texture Saturation Percentage Soil Preparation USDA1

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Entrada Consulting Group
Project: Meeker pit
Lab ID: H22070659-001
Client Sample ID: United Pit

Report Date: 08/02/22
Collection Date: 07/20/22 10:00
DateReceived: 07/21/22
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	26	%		1		ASA15-5	07/26/22 14:39 / sah
Silt	39	%		1		ASA15-5	07/26/22 14:39 / sah
Clay	35	%		1		ASA15-5	07/26/22 14:39 / sah
Texture	CL			1		ASA15-5	07/26/22 14:39 / sah
SATURATED PASTE							
Saturation	53.1	%		0.1		USDA27a	07/26/22 08:52 / sah
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASA10-3	07/26/22 09:27 / jjp
WATER EXTRACTABLE							
Chloride, 1:2	22	mg/kg		1		E300.0	07/25/22 20:53 / SRW
SATURATED PASTE EXTRACT							
Sodium, sat. paste	22.7	meq/L		0.04		SW6010B	07/26/22 20:00 / sld
CHEMICAL CHARACTERISTICS							
Potassium, Available	206	mg/kg	D	3		SW6010B	08/02/22 13:20 / sld
Sodium, Extractable	2.62	meq/100g	D	0.009		SW6010B	07/29/22 03:04 / sld
Cation Exchange Capacity	26.1	meq/100g	D	0.6		SW6010B	07/26/22 21:30 / sld
Organic Matter	2.0	%		0.2		ASA29-3	07/26/22 13:10 / sah
Exchangeable Sodium Percentage	5.4	%		0.1		USDA20a	07/26/22 13:19 / stp
Lime as CaCO3	10.1	%		0.01		USDA23c	07/27/22 10:56 / jjp
NUTRIENTS							
Phosphorus, Olsen	10	mg/kg-dry		1		ASA24-5	08/01/22 15:34 / JAR
Ammonia as N, KCL Extract	5.5	mg/kg-dry		0.5		ASA33-7	08/02/22 12:22 / JAR
Nitrate as N, KCL Extract	120	mg/kg-dry	D	2.0		ASA33-8	07/26/22 11:25 / JAR
ABDTPA EXTRACTABLE METALS							
Copper	2.6	mg/kg		0.1		SW6020	07/25/22 22:09 / dck
Iron	21	mg/kg		1		SW6020	07/25/22 22:09 / dck
Manganese	6.8	mg/kg		0.1		SW6020	07/25/22 22:09 / dck
Zinc	0.9	mg/kg		0.1		SW6020	08/01/22 17:01 / sld

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
D - Reporting Limit (RL) increased due to sample matrix
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA10-3							al Run: SOIL PH METER - ORION A211_220726A			
Lab ID: ICV_1_220725_1		Initial Calibration Verification Standard								07/26/22 09:09
pH, sat. paste		7.05	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV_1_220725_1		Continuing Calibration Verification Standard								07/26/22 09:10
pH, sat. paste		7.04	s.u.	0.10	101	98.6	101.4			
Lab ID: CCV1_1_220725_1		Continuing Calibration Verification Standard								07/26/22 09:10
pH, sat. paste		4.01	s.u.	0.10	100	97.5	102.5			
Method: ASA10-3										Batch: 62449
Lab ID: LCS-62449		Laboratory Control Sample				Run: SOIL PH METER - ORION A2				07/26/22 09:11
pH, sat. paste		8.07	s.u.	0.10	101	95	105			
Lab ID: H22070659-001ADUP		Sample Duplicate				Run: SOIL PH METER - ORION A2				07/26/22 09:27
pH, sat. paste		7.74	s.u.	0.10				0.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**ASA15-5**										Batch: 62446
Lab ID:	**H22070668-001ADUP**	4	Sample Duplicate				Run: SOIL HYDROMETER_220727			07/26/22 14:39	
Sand			56.0	%	1.0				0.0	20	
Silt			27.0	%	1.0				3.8	20	
Clay			17.0	%	1.0				5.7	20	
Texture			SL		1.0						
Lab ID:	**LCS-62446**	3	Laboratory Control Sample				Run: SOIL HYDROMETER_220727			07/26/22 14:39	
Sand			46.0	%	1.0	96	70	130			
Silt			29.0	%	1.0	100	70	130			
Clay			25.0	%	1.0	109	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA24-5									Analytical Run: SEAL AA500_220801A	
Lab ID: CCV		Continuing Calibration Verification Standard							08/01/22 14:52	
Phosphorus, Olsen		2.5	mg/kg-dry	1.0	99	85	115			
Method: ASA24-5									Batch: 62443	
Lab ID: MB-62443		Method Blank				Run: SEAL AA500_220801A			08/01/22 14:58	
Phosphorus, Olsen		ND	mg/kg-dry	0.05						
Lab ID: LCS-62443		Laboratory Control Sample				Run: SEAL AA500_220801A			08/01/22 15:03	
Phosphorus, Olsen		54	mg/kg-dry	1.0	122	70	130			
Lab ID: H22070659-001ADUP		Sample Duplicate				Run: SEAL AA500_220801A			08/01/22 15:36	
Phosphorus, Olsen		9.4	mg/kg-dry	1.0				6.4	30	
Lab ID: H22070659-001AMS		Sample Matrix Spike				Run: SEAL AA500_220801A			08/01/22 15:37	
Phosphorus, Olsen		50	mg/kg-dry	1.0	99	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA29-3										Batch: 62445
Lab ID: LCS-62445		Laboratory Control Sample				Run: MISC SOILS_220726A				07/26/22 13:10
Organic Matter		1.13	%	0.17	94	70	130			
Lab ID: MB-62445		Method Blank				Run: MISC SOILS_220726A				07/26/22 13:10
Organic Matter		ND	%	0.2						
Lab ID: H22070568-001ADUP		Sample Duplicate				Run: MISC SOILS_220726A				07/26/22 13:10
Organic Matter		5.79	%	0.17						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA33-7									Analytical Run: FIA203-HE_220802A	
Lab ID: ICV		Initial Calibration Verification Standard							08/02/22 12:10	
Ammonia as N, KCL Extract		1.03	mg/kg-dry	0.50	103	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							08/02/22 12:13	
Ammonia as N, KCL Extract		0.512	mg/kg-dry	0.50	102	90	110			
Method: ASA33-7										Batch: 62441
Lab ID: MB-62441		Method Blank				Run: FIA203-HE_220802A			08/02/22 12:15	
Ammonia as N, KCL Extract		0.2	mg/kg-dry	0.1						
Lab ID: LCS-62441		Laboratory Control Sample				Run: FIA203-HE_220802A			08/02/22 12:17	
Ammonia as N, KCL Extract		6.73	mg/kg-dry	0.50	90	70	130			
Lab ID: H22070658-001AMS		Sample Matrix Spike				Run: FIA203-HE_220802A			08/02/22 12:21	
Ammonia as N, KCL Extract		9.80	mg/kg-dry	0.50	97	80	120			
Lab ID: H22070680-004ADUP		Sample Duplicate				Run: FIA203-HE_220802A			08/02/22 12:28	
Ammonia as N, KCL Extract		1.63	mg/kg-dry	0.50				3.7	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA33-8									Analytical Run: FIA203-HE_220726A	
Lab ID: ICV		Initial Calibration Verification Standard							07/26/22 10:55	
Nitrate as N, KCL Extract		1.0	mg/kg-dry	1.0	101	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/26/22 11:19	
Nitrate as N, KCL Extract		0.48	mg/kg-dry	1.0	95	90	110			
Method: ASA33-8									Batch: 62441	
Lab ID: MB-62441		Method Blank				Run: FIA203-HE_220726A			07/26/22 10:59	
Nitrate as N, KCL Extract		0.4	mg/kg-dry	0.1						
Lab ID: LCS-62441		Laboratory Control Sample				Run: FIA203-HE_220726A			07/26/22 11:00	
Nitrate as N, KCL Extract		7.86	mg/kg-dry	1.0	98	70	130			
Lab ID: H22070668-001ADUP		Sample Duplicate				Run: FIA203-HE_220726A			07/26/22 11:27	
Nitrate as N, KCL Extract		25.8	mg/kg-dry	1.0				17	30	
Lab ID: H22070680-001AMS		Sample Matrix Spike				Run: FIA203-HE_220726A			07/26/22 11:31	
Nitrate as N, KCL Extract		7.63	mg/kg-dry	1.0	87	80	120			
Lab ID: MB-62441		Method Blank				Run: FIA203-HE_220726A			07/26/22 10:59	
Nitrate as N, KCL Extract		0.4	mg/kg-dry	0.1						
Lab ID: LCS-62441		Laboratory Control Sample				Run: FIA203-HE_220726A			07/26/22 11:00	
Nitrate as N, KCL Extract		7.9	mg/kg-dry	1.0	98	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC METROHM_220725A		
Lab ID: ICV		Initial Calibration Verification Standard								07/25/22 17:17
Chloride		99.0	mg/L	1.0	99	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								07/25/22 18:00
Chloride		49.1	mg/L	1.0	98	90	110			
Method: E300.0										Batch: 62419
Lab ID: MB-62419		Method Blank				Run: IC METROHM_220725A				07/25/22 20:09
Chloride, 1:2		0.4	mg/kg	0.008						
Lab ID: LCS-62419		Laboratory Control Sample				Run: IC METROHM_220725A				07/25/22 20:24
Chloride, 1:2		114	mg/kg	1.0	107	70	130			
Lab ID: H22070674-003ADUP		Sample Duplicate				Run: IC METROHM_220725A				07/25/22 21:50
Chloride, 1:2		2.16	mg/kg	1.0				1.9	20	
Lab ID: H22070674-003AMS		Sample Matrix Spike				Run: IC METROHM_220725A				07/25/22 22:05
Chloride, 1:2		472	mg/kg	1.0	94	90	110			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Analytical Run: ICP2-HE_220726A	
Lab ID: ICV		Initial Calibration Verification Standard							07/26/22 13:58	
Sodium		39.4	mg/L	1.0	98	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/26/22 14:02	
Sodium		24.6	mg/L	1.0	98	90	110			
Lab ID: ICSA		Interference Check Sample A							07/26/22 14:13	
Sodium		0.0902	mg/L	1.0		0	0			
Lab ID: ICSAB		Interference Check Sample AB							07/26/22 14:17	
Sodium		19.9	mg/L	1.0	99	80	120			
Method: SW6010B									Batch: 62440	
Lab ID: MB-62440	2	Method Blank				Run: ICP2-HE_220726A			07/26/22 20:57	
Sodium		ND	mg/kg	7						
Cation Exchange Capacity		ND	meq/100g	0.6						
Lab ID: LFB-62440		Laboratory Fortified Blank				Run: ICP2-HE_220726A			07/26/22 21:00	
Sodium		513	mg/kg	7.2	103	80	120			
Lab ID: LCS-62440	2	Laboratory Control Sample				Run: ICP2-HE_220726A			07/26/22 21:04	
Sodium		266	mg/kg	7.0	96	70	130			
Cation Exchange Capacity		23.1	meq/100g	0.61	96	70	130			
Lab ID: H22070658-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220726A			07/26/22 21:23	
Sodium		907	mg/kg	7.2	110	75	125			
Cation Exchange Capacity		78.9	meq/100g	0.63	110	75	125			
Lab ID: H22070658-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220726A			07/26/22 21:27	
Sodium		873	mg/kg	7.2	103	75	125	3.8	20	
Cation Exchange Capacity		75.9	meq/100g	0.63	103	75	125	3.8	20	
Lab ID: H22070659-001Adup	2	Sample Duplicate				Run: ICP2-HE_220726A			07/26/22 21:34	
Sodium		293	mg/kg	7.0				2.2	30	
Cation Exchange Capacity		25.5	meq/100g	0.61				2.2	30	
Method: SW6010B									Batch: 62449	
Lab ID: MB-62449	2	Method Blank				Run: ICP2-HE_220726A			07/26/22 18:29	
Sodium		0.03	mg/L	0.02						
Sodium, sat. paste		0.001	meq/L	0.0009						
Lab ID: LFB-62449	2	Laboratory Fortified Blank				Run: ICP2-HE_220726A			07/26/22 18:33	
Sodium		52.4	mg/L	1.0	105	80	120			
Sodium, sat. paste		2.28	meq/L	0.043	105	80	120			
Lab ID: LCS-62449	2	Laboratory Control Sample				Run: ICP2-HE_220726A			07/26/22 18:37	
Sodium		543	mg/L	1.0	107	70	130			
Sodium, sat. paste		23.6	meq/L	0.043	107	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 62449
Lab ID: H22070590-004AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220726A			07/26/22 19:15	
Sodium		417	mg/L	1.0	145	70	130			S
Sodium, sat. paste		18.1	meq/L	0.043	145	70	130			S
Lab ID: H22070590-004AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220726A			07/26/22 19:18	
Sodium		416	mg/L	1.0	145	70	130	0.1	20	S
Sodium, sat. paste		18.1	meq/L	0.043	145	70	130	0.1	20	S
Lab ID: H22070659-001Adup	2	Sample Duplicate				Run: ICP2-HE_220726A			07/26/22 20:04	
Sodium		537	mg/L	1.0				2.6	30	
Sodium, sat. paste		23.3	meq/L	0.043				2.6	30	
Method: SW6010B										Analytical Run: ICP2-HE_220728B
Lab ID: ICV		Initial Calibration Verification Standard							07/28/22 11:07	
Sodium		39.9	mg/L	1.0	100	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							07/28/22 11:11	
Sodium		26.1	mg/L	1.0	104	90	110			
Lab ID: ICSA		Interference Check Sample A							07/28/22 11:22	
Sodium		0.0841	mg/L	1.0		0	0			
Lab ID: ICSAB		Interference Check Sample AB							07/28/22 11:26	
Sodium		20.2	mg/L	1.0	101	80	120			
Method: SW6010B										Batch: 62444
Lab ID: MB-62444	2	Method Blank				Run: ICP2-HE_220728B			07/29/22 02:41	
Sodium		9	mg/kg	0.2						
Sodium, Extractable		0.04	meq/100g	0.0009						
Lab ID: LFB-62444	2	Laboratory Fortified Blank				Run: ICP2-HE_220728B			07/29/22 02:45	
Sodium		5930	mg/kg	2.1	119	80	120			
Sodium, Extractable		25.8	meq/100g	0.0091	119	80	120			
Lab ID: LCS-62444	2	Laboratory Control Sample				Run: ICP2-HE_220728B			07/29/22 02:49	
Sodium		775	mg/kg	2.0	111	70	130			
Sodium, Extractable		3.37	meq/100g	0.0088	111	70	130			
Lab ID: H22070659-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220728B			07/29/22 03:12	
Sodium		6280	mg/kg	2.1	114	75	125			
Sodium, Extractable		27.3	meq/100g	0.0091	114	75	125			
Lab ID: H22070659-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220728B			07/29/22 03:15	
Sodium		6550	mg/kg	2.1	119	75	125	4.3	20	
Sodium, Extractable		28.5	meq/100g	0.0091	119	75	125	4.3	20	
Lab ID: H22070668-001Adup	2	Sample Duplicate				Run: ICP2-HE_220728B			07/29/22 03:23	
Sodium		30.1	mg/kg	2.0				2.6	20	
Sodium, Extractable		0.131	meq/100g	0.0088				2.6	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 62565
Lab ID: MB-62565	2	Method Blank				Run: ICP2-HE_220802A			08/02/22 12:46	
Potassium, Available		4	mg/kg	0.3						
Potassium, Extractable		0.01	meq/100g	0.0008						
Lab ID: LFB-62565	2	Laboratory Fortified Blank				Run: ICP2-HE_220802A			08/02/22 12:50	
Potassium, Available		2780	mg/kg	3.2	111	80	120			
Potassium, Extractable		7.13	meq/100g	0.0082	112	80	120			
Lab ID: LCS-62565	2	Laboratory Control Sample				Run: ICP2-HE_220802A			08/02/22 12:53	
Potassium, Available		698	mg/kg	3.1	112	70	130			
Potassium, Extractable		1.79	meq/100g	0.0080	107	70	130			
Lab ID: H22070658-001AMS2	2	Sample Matrix Spike				Run: ICP2-HE_220802A			08/02/22 13:12	
Potassium, Available		7310	mg/kg	3.2	119	75	125			
Potassium, Extractable		18.7	meq/100g	0.0082	119	75	125			
Lab ID: H22070658-001AMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-HE_220802A			08/02/22 13:16	
Potassium, Available		7660	mg/kg	3.2	133	75	125	4.6	20	S
Potassium, Extractable		19.6	meq/100g	0.0082	133	75	125	4.6	20	S
Lab ID: H22070668-001Adup	2	Sample Duplicate				Run: ICP2-HE_220802A			08/02/22 13:27	
Potassium, Available		1830	mg/kg	3.1				1.1	20	
Potassium, Extractable		4.70	meq/100g	0.0080				1.1	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: ICPMS205-H_220725C		
Lab ID: ICV	3	Initial Calibration Verification Standard								07/25/22 15:45
Copper		0.0596	mg/L	0.0010	99	90	110			
Iron		0.292	mg/L	0.0043	97	90	110			
Manganese		0.294	mg/L	0.0010	98	90	110			
Lab ID: ICSA	3	Interference Check Sample A								07/25/22 15:52
Copper		-0.000613	mg/L	0.0010						
Iron		97.1	mg/L	0.0043	97	70	130			
Manganese		0.000249	mg/L	0.0010		0	0			
Lab ID: ICSAB	3	Interference Check Sample AB								07/25/22 15:57
Copper		0.0185	mg/L	0.0010	92	70	130			
Iron		98.0	mg/L	0.0043	98	70	130			
Manganese		0.0196	mg/L	0.0010	98	70	130			
Lab ID: CCV	3	Continuing Calibration Verification Standard								07/25/22 16:04
Copper		0.0506	mg/L	0.0010	101	90	110			
Iron		1.30	mg/L	0.0043	100	90	110			
Manganese		0.0503	mg/L	0.0010	101	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								07/25/22 21:43
Copper		0.0513	mg/L	0.0010	103	90	110			
Iron		1.33	mg/L	0.0043	102	90	110			
Manganese		0.0502	mg/L	0.0010	100	90	110			
Lab ID: ICV	3	Initial Calibration Verification Standard								07/25/22 23:03
Copper		0.0587	mg/L	0.0010	98	90	110			
Iron		0.278	mg/L	0.0043	93	90	110			
Manganese		0.287	mg/L	0.0010	96	90	110			
Lab ID: ICSA	3	Interference Check Sample A								07/25/22 23:11
Copper		0.0000467	mg/L	0.0010						
Iron		97.6	mg/L	0.0043	98	70	130			
Manganese		0.000196	mg/L	0.0010		0	0			
Lab ID: ICSAB	3	Interference Check Sample AB								07/25/22 23:15
Copper		0.0191	mg/L	0.0010	95	70	130			
Iron		97.6	mg/L	0.0043	98	70	130			
Manganese		0.0196	mg/L	0.0010	98	70	130			
Lab ID: CCV	3	Continuing Calibration Verification Standard								07/26/22 05:49
Copper		0.0497	mg/L	0.0010	99	90	110			
Iron		1.30	mg/L	0.0043	100	90	110			
Manganese		0.0495	mg/L	0.0010	99	90	110			
Method: SW6020										Batch: 62439
Lab ID: MB-62439	4	Method Blank				Run: ICPMS205-H_220725C				07/25/22 21:48
Copper		ND	mg/kg	0.01						
Iron		ND	mg/kg	0.3						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: 62439
Lab ID: MB-62439	4	Method Blank				Run: ICPMS205-H_220725C				07/25/22 21:48
Manganese		ND	mg/kg	0.03						
Zinc		0.2	mg/kg	0.06						
Lab ID: LCS-62439	4	Laboratory Control Sample				Run: ICPMS205-H_220725C				07/25/22 21:50
Copper		5.59	mg/kg	0.10	97	70	130			
Iron		93.9	mg/kg	1.0	80	70	130			
Manganese		8.96	mg/kg	0.10	98	70	130			
Zinc		9.60	mg/kg	0.10	101	70	130			
Lab ID: H22070724-015Adup	4	Sample Duplicate				Run: ICPMS205-H_220725C				07/25/22 22:16
Copper		3.89	mg/kg	0.10				0.5	20	
Iron		15.5	mg/kg	1.0				0.7	20	
Manganese		2.88	mg/kg	0.10				3.5	20	
Zinc		1.84	mg/kg	0.11				7.9	20	
Lab ID: LFB-62439	2	Laboratory Fortified Blank				Run: ICPMS205-H_220725C				07/25/22 22:19
Copper		11.0	mg/kg	0.10	110	80	120			
Zinc		10.9	mg/kg	0.11	109	80	120			
post-extraction spike										
Lab ID: H22070472-005AMS	2	Sample Matrix Spike				Run: ICPMS205-H_220725C				07/25/22 22:21
Copper		13.1	mg/kg	0.10	110	75	125			
Zinc		16.1	mg/kg	0.11	102	75	125			
post-extraction spike										
Method: SW6020										Analytical Run: ICPMS205-H_220801B
Lab ID: ICV		Initial Calibration Verification Standard								08/01/22 13:38
Zinc		0.0610	mg/L	0.0013	102	90	110			
Lab ID: ICSA		Interference Check Sample A								08/01/22 13:45
Zinc		0.000204	mg/L	0.0013						
Lab ID: ICSAB		Interference Check Sample AB								08/01/22 13:50
Zinc		0.00894	mg/L	0.0013	89	70	130			
Lab ID: CCV		Continuing Calibration Verification Standard								08/01/22 13:57
Zinc		0.0520	mg/L	0.0013	104	90	110			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: USDA20a										Batch: 62449
Lab ID: H22070659-001ADUP	Sample Duplicate					Run: SOIL CALC_220729A			07/26/22 13:19	
Exchangeable Sodium Percentage		5.60	%	0.10				3.6	20	
Lab ID: LCS-62449	Laboratory Control Sample					Run: SOIL CALC_220729A			07/26/22 13:19	
Exchangeable Sodium Percentage		10.4	%	0.10	117	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: USDA23c										Batch: 62435
Lab ID: MB-62435	2	Method Blank				Run: MAN-TECH_220727A				07/27/22 10:32
Neutralization Potential		0.07	Tons/1000T	0.05						
Lime as CaCO3		0.007	%	0.005						
Lab ID: LCS-62435	2	Laboratory Control Sample				Run: MAN-TECH_220727A				07/27/22 10:38
Neutralization Potential		48.2	Tons/1000T	0.10	102	80	120			
Lime as CaCO3		4.82	%	0.010	102	80	120			
Lab ID: H22070659-001ADUP	2	Sample Duplicate				Run: MAN-TECH_220727A				07/27/22 11:04
Neutralization Potential		102	Tons/1000T	0.10				1.2	20	
Lime as CaCO3		10.2	%	0.010				1.2	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Entrada Consulting Group **Work Order:** H22070659 **Report Date:** 08/02/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **USDA27a**										Batch: 62449
Lab ID: **LCS-62449**		Laboratory Control Sample				Run: SOIL DRYING OVEN 2_22072				07/26/22 08:52
Saturation		40.7	%	0.10	98	80	120			
Lab ID: **H22070659-001ADUP**		Sample Duplicate				Run: SOIL DRYING OVEN 2_22072				07/26/22 08:53
Saturation		51.5	%	0.10				3.1	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Entrada Consulting Group

H22070659

Login completed by: Wanda Johnson

Reviewed by: spester

Reviewed Date: 8/2/2022

Date Received: 7/21/2022

Received by: RMF

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	13.4°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

No attachment received. wjj 7/21/2022

ENERGY LABORATORIES
Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Page 1 of 1

Account Information *(Billing information)*

Company/Name	Entrada Consulting Group
Contact	Tim Dobransky
Phone	970.270.2986
Mailing Address	330 Grand Avenue, Suite C
City, State, Zip	Grand Junction, CO 81501
Email	tdobransky@entradainc.com
Receive Invoice	☐Hard Copy ☐Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	
Quote	H15424
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	
Contact	
Phone	
Mailing Address	
City, State, Zip	
Email	
Receive Report	☐Hard Copy ☐Email

Special Report/Formats:
☐ LEVEL IV ☐NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

See quote H15424 for required methods.

Quote Attached

Project Information

Project Name, PWSID, Permit, etc.	Meeker Pit
Sampler Name	Mace
Sampler Phone	970.270.2986
Sample Origin State	CO
EPA/State Compliance	☐ Yes ☒ No

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W- Water
S - Soils/ Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

Analysis Requested

Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	ESP%/CEC/pH	%OM, NO3, NH4, P, K	Zn, Fe, Mn, Cu, Cl	% calcium carbonate equiv - gravimetric	Texture - by Hydrometer - report as USDA					See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1 United Pit	07/20/2022	1000	1	S	✓	✓	✓	✓	✓					●		H22070659
2																
3																
4																
5																
6																
7																
8																
9																

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	CHRIS MACE	20220720 1400				
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Khaylh Fossedal	7/21/22 839	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number *(cash/check only)*
FedEx express	y	Y (N) C B	Y N	19.4 °C	Y (N)	(Y) N	CC Cash Check_____	$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

WELLHEAD AND FLOWLINE CLOSURE CHECKLISTS

WILSON CREEK UNIT 31 REM # 20334

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure

Site Name & COGCC Facility Number: Unit 31 228853	*Date:* 11/8/21 - 8/25/22	*Remediation Project #:* 20334
Associated Wells: Wilson Creek Unit 31	*Age of Site:* 60 + yrs	*Number of Photos Attached:*
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.172194, -107.905431		*Estimated Facility Size (acres):* 10

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
-General Surface conditions look good. No Surface Staining or Major leaks noted. Oil Impacted soils observed during initial bellhole excavation on 12/1/21

USCS Soil Type: Jerry - Thornburgh - Rhone - Complex (Loam) | *Estimated Depth to Groundwater:* >50'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
Oil impacted soils in and around wellhead cellar observed during initial bellhole on 12/1/21. Impacted soil removal began in Spring 2022 Until Compliance w/ Table 915-1 met in August 2022. Final Excavation footprint Approx 150' x 170' x 18'

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None Observed - Working Surface.

Wellhead(s)

Well API	103-05843					
Age	60 + yrs					
Condition of surface around wellhead	Minor Staining Gravel Surface					
PID Readings	269.8 ppm					
Condition of subsurface (staining present	Oil Stained Soil @ Cellar Bellhole.					
PID Readings	Max of 180.2 Unit 31 N.					
Sample taken? Location/Sample ID#	Unit 31 N (4-6')					
Photo Number(s)	Pg. 2					

Other observations regarding wellheads: Bottomless concrete Cellar Impacted soils (oil / Hydrocarbon) observed on 12/1/21 at time of initial bellhole. Excavation began in 2022 Spring - Entrada began screening and assessment of excavation in May 2022

Summary

Was impacted soil identified?
No | Yes - less than 10 cubic yards | Yes - more than 10 cubic yards

Total number of samples field screened: 26	*Total number of samples collected:* 22
Highest PID Reading: 269.8 Surface @ WH 11/8/21	*Total number of samples submitted to lab for analysis:* 22

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: 18'	*Estimated spill volume:* Unknown - Historical
Lateral extent: 150' x 170' (approx)	*Volume of soil removed:* Approx 2300 cyds.

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:	*Was remedial groundwater removal conducted?* Yes 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:	

WILSON CREEK UNIT 31 REM # 20334

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: Unit 31 228853	Date:	Remediation Project #: 20334
Associated Wells: Wilson Creek Unit 31	Age of Site:	Number of Photos Attached:

Starting point: (GPS coordinates and descriptions) 40.172189°, -107.905441°

End point: (GPS coordinates and descriptions) 40.172201°, -107.905171°

USCS Soil Type: Jerry-Thornburgh-Rhone Complex (Loam) | Estimated Depth to Groundwater: >50'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
- Small release area observed on eastern section of line under BLM Road. Main depth of impacts 2.5-3' bgs
- No impacts observed @ 5' bgs. Impacted area approx 5' x 5' x 3'

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None Observed.

Flowlines

Flowline type	Oil							
Depth	2.5'							
Age	60+ yrs?							
Length	± 80'							
Construction Material	Steel							
Were flowlines pulled?	Yes							
Visual Integrity of lines	Pinhole near Release							
Visual impacts if trenched	Yes							
PID Readings if trenched	Yes							
Sample taken? Location/Sample ID#	Yes Multiple							
Photo Number(s)	Pg 4							

Other observations regarding on loction flowlines: Flowline pulled and inspected during overall impacted soil removal @ wellhead. Pinhole leak observed on east end of line under road. Petroleum impacted soil removed immediately along w/ FL. No impacts observed below 5' bgs. Impacted soil taken to Gray Gulch.

Summary

Was impacted soil identified?
No | Yes - less than 10 cubic yards | Yes - more than 10 cubic yards

Total number of samples field screened: 7	Total number of samples collected: 6
Highest PID Reading: 672.6' - Unit 31 FL2 (2') (Origin)	Total number of samples submitted to lab for analysis: 6

If more than 10 cubic yards of impacted soil were observed:

Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:

Is additional investigation required?

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:	Was remedial groundwater removal conducted? Yes 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:	