

Pratt F Unit 1

NWNW, Sec 29, T1N, R68W, 6PM

API #s:

05-123-32428

05-123-32434

05-123-32432

05-123-32377

05-123-32376

05-123-32387

Remediation Project #: 35928

Decommissioning Package

Prepared by Quandary Consultants, Inc.



On behalf of Crestone Peak Resources Operating, LLC



FIELD NOTES AND PHOTO LOG

Decommissioning Field Form Background Assessment



SITE NAME: Pratt F Unit 1						REM. PROJECT # 35928		WEATHER: Sunny	
SITE DIRECTIONS: From CR5 & Garfield Rd, travel west 0.9 mile and south into location						CLIENT: Civitas			
LAT/LONG: 40.028150, -105.035553						PERSONNEL: Ruffin Henry			
SURROUNDING LAND USE: Residential						SURFACE GRADIENT: Southwest			
SOIL TYPE: See below									
						Observations			
Sample I.D.	Approx. Depth (ft. bgs)	Date	Time	Soil Type	PID (ppm)	Visual (Y/N)	Olfactory (Y/N)	Photo (Y/N)	Lab (Y/N)
21-29-WH-B01@5'	5	9/26/2024	12:15	Silt	2.3	N	N	Y	Y
21-29-WH-N01@4'	4	9/26/2024	12:16	Silt	0.2	N	N	Y	N
21-29-WH-S01@4'	4	9/26/2024	12:17	Silt	0.3	N	N	Y	N
21-29-WH-E01@4'	4	9/26/2024	12:18	Silt	0.1	N	N	Y	N
21-29-WHS-N01@3"	0.25	9/26/2024	12:36	Road Base	1.3	N	N	Y	N
21-29-WHS-S01@3"	0.25	9/26/2024	12:37	Road Base	1.3	N	N	Y	N
21-29-WHS-E01@3"	0.25	9/26/2024	12:38	Road Base	1.2	N	N	Y	N
22-29-WH-B01@5'	5	9/26/2024	12:21	Silt	0.5	N	N	Y	Y
22-29-WH-N01@4'	4	9/26/2024	12:23	Silt	0.0	N	N	Y	N
22-29-WH-S01@4'	4	9/26/2024	12:24	Silt	0.0	N	N	Y	N
22-29-WHS-N01@3"	0.25	9/26/2024	12:43	Road Base	2.8	N	N	Y	N
22-29-WHS-S01@3"	0.25	9/26/2024	12:44	Road Base	1.6	N	N	Y	N
2-0-29-WH-B01@5'	5	9/26/2024	12:19	Silt	0.1	N	N	Y	Y
2-0-29-WH-N01@4'	4	9/26/2024	12:20	Silt	0.0	N	N	Y	N
2-0-29-WH-S01@4'	4	9/26/2024	12:21	Silt	0.0	N	N	Y	N
2-0-29-WHS-N01@3"	0.25	9/26/2024	12:39	Road Base	1.2	N	N	Y	N
2-0-29-WHS-S01@3"	0.25	9/26/2024	12:40	Road Base	1.8	N	N	Y	N
2-4-29-WH-B01@5'	5	9/26/2024	12:25	Silt	0.0	N	N	Y	Y
2-4-29-WH-N01@4'	4	9/26/2024	12:26	Silt	0.0	N	N	Y	N
2-4-29-WH-S01@4'	4	9/26/2024	12:27	Silt	0.0	N	N	Y	N
2-4-29-WH-W01@4'	4	9/26/2024	12:28	Silt	0.0	N	N	Y	N
2-4-29-WHS-N01@3"	0.25	9/26/2024	12:45	Road Base	1.8	N	N	Y	N
2-4-29-WHS-S01@3"	0.25	9/26/2024	12:46	Road Base	1.8	N	N	Y	N
2-4-29-WHS-W01@3"	0.25	9/26/2024	12:47	Road Base	2.7	N	N	Y	N
21-29-FL-B01@3'	3	9/26/2024	12:29	Silt	0.0	N	N	Y	Y
21-29-FL-B02@3'	3	9/26/2024	15:44	Silt	2.1	N	N	Y	Y
21-29-FL-B03@3'	3	9/26/2024	NR	Silt	1.0	N	N	Y	Y
22-29-FL-B01@3'	3	9/26/2024	12:32	Silt	0.7	N	N	Y	Y
22-29-FL-B02@3'	3	9/26/2024	15:41	Silt	2.4	N	N	Y	Y
22-29-FL-B03@3'	3	9/26/2024	NR	Silt	0.8	N	N	Y	Y
12-29-FL-B01@3'	3	9/26/2024	12:34	Silt	7.4	N	N	Y	Y
12-29-FL-B02@3'	3	9/26/2024	NR	Silt	0.3	N	N	Y	Y
2-4-29-FL-B01@3'	3	9/26/2024	12:33	Silt	0.7	N	N	Y	Y
2-4-29-FL-B02@3'	3	9/26/2024	15:40	Silt	2.2	N	N	Y	Y
2-4-29-FL-B03@3'	3	9/26/2024	15:45	Silt	0.6	N	N	Y	Y
2-0-29-FL-B01@3'	3	9/26/2024	12:30	Silt	1.2	N	N	Y	Y
2-0-29-FL-B02@3'	3	9/26/2024	15:43	Silt	2.8	N	N	Y	Y
2-0-29-FL-B03@3'	3	9/26/2024	NR	Silt	0.8	N	N	Y	Y
0-2-29-FL-B01@3'	3	9/26/2024	12:35	Silt	4.1	N	N	Y	Y
0-2-29-FL-B02@3'	3	9/26/2024	NR	Silt	0.7	N	N	Y	Y
WH-BG01@3"	0.25	9/26/2024	NR	Silt	1.0	N	N	Y	Y
WH-BG01@3'	3	9/26/2024	NR	Silt	0.7	N	N	Y	Y

Decommissioning Field Form
Background Assessment



WH-BG01@6'	6	9/26/2024	NR	Silt	0.7	N	N	Y	Y
WH-BG02@3"	0.25	9/26/2024	NR	Silt	0.7	N	N	Y	Y
WH-BG02@3'	3	9/26/2024	NR	Silt	0.5	N	N	Y	Y
WH-BG02@6'	6	9/26/2024	NR	Silt	0.8	N	N	Y	Y
WH-BG03@3"	0.25	9/26/2024	NR	Silt	0.9	N	N	Y	Y
WH-BG03@3'	3	9/26/2024	NR	Silt	1.0	N	N	Y	Y
WH-BG03@6'	6	9/26/2024	NR	Silt	1.3	N	N	Y	Y
WH-BG04@3"	0.25	9/26/2024	NR	Silt	0.4	N	N	Y	Y
WH-BG04@3'	3	9/26/2024	NR	Silt	0.7	N	N	Y	Y
WH-BG04@6'	6	9/26/2024	NR	Silt	1.0	N	N	Y	Y

Groundwater	
Date Encountered: NA	Depth: NA
GW Contact w/ Impacted Soil (Y/N)	NA
LNAPL or Sheen (Y/N)	NA
Sample I.D.(s):	NA
Photo (Y/N)	NA

Material Management	
# Test Pits/Boreholes	3
Material Backfilled in Place (Y/N)	Y
Volume Soil Removed (cy)	0
Name of Disposal Facility	NA

ft. bgs = feet below ground surface

PID = photoionization detector

ppm = parts per million

cy = cubic yards

Visual - if Yes, indicate staining (S) or free product (FP)

Olfactory - if Yes, indicates presence of hydrocarbon odor.

NA - Not applicable

NR - Not recorded

N = No

Y = Yes

Sample ID Designations	
Wellhead	WH
Wellhead Surface	WHS
Flowline	FL
Background	BG

Wellhead ID Designations		Wellhead API
Pratt 21-29	21-29	05-123-32428
Pratt 22-29	22-29	05-123-32434
Pratt 12-29	12-29	05-123-32432
Pratt 0-2-29	0-2-29	05-123-32377
Pratt 2-0-29	2-0-29	05-123-32376
Pratt 2-4-29	2-4-29	05-123-32387

Pratt F Unit 1 Photo Log



















































































TABLES

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PRATT F UNIT 1
WELD COUNTY, COLORADO
CIVITAS RESOURCES, INC.



				Observations				
Sample ID	Approx. Depth (ft bgs)	Date	PID (ppm-v)	Visual (Y/N)	Olfactory (Y/N)	Lab (Y/N)	Lat	Long
WELLHEAD								
21-29-WH-B01@5'	5	9/26/2024	2.3	N	N	Y	40.028133	-105.035458
21-29-WH-N01@4'	4	9/26/2024	0.2	N	N	N	40.028145	-105.035457
21-29-WH-S01@4'	4	9/26/2024	0.3	N	N	N	40.028119	-105.035457
21-29-WH-E01@4'	4	9/26/2024	0.1	N	N	N	40.028127	-105.035444
21-29-WHS-N01@3"	0.25	9/26/2024	1.3	N	N	N	40.028161	-105.035432
21-29-WHS-S01@3"	0.25	9/26/2024	1.3	N	N	N	40.028082	-105.035447
21-29-WHS-E01@3"	0.25	9/26/2024	1.2	N	N	N	40.028115	-105.035392
22-29-WH-B01@5'	5	9/26/2024	0.5	N	N	Y	40.028127	-105.035557
22-29-WH-N01@4'	4	9/26/2024	0.0	N	N	N	40.028135	-105.035555
22-29-WH-S01@4'	4	9/26/2024	0.0	N	N	N	40.028117	-105.035556
22-29-WHS-N01@3"	0.25	9/26/2024	2.8	N	N	N	40.028160	-105.035561
22-29-WHS-S01@3"	0.25	9/26/2024	1.6	N	N	N	40.028090	-105.035559
2-0-29-WH-B01@5'	5	9/26/2024	0.1	N	N	Y	40.028135	-105.035489
2-0-29-WH-N01@4'	4	9/26/2024	0.0	N	N	N	40.028144	-105.035493
2-0-29-WH-S01@4'	4	9/26/2024	0.0	N	N	N	40.028117	-105.035495
2-0-29-WHS-N01@3"	0.25	9/26/2024	1.2	N	N	N	40.028158	-105.035489
2-0-29-WHS-S01@3"	0.25	9/26/2024	1.8	N	N	N	40.028083	-105.035488
2-4-29-WH-B01@5'	5	9/26/2024	0.0	N	N	Y	40.028124	-105.035590
2-4-29-WH-N01@4'	4	9/26/2024	0.0	N	N	N	40.028134	-105.035587
2-4-29-WH-S01@4'	4	9/26/2024	0.0	N	N	N	40.028117	-105.035593
2-4-29-WH-W01@4'	4	9/26/2024	0.0	N	N	N	40.028120	-105.035600
2-4-29-WHS-N01@3"	0.25	9/26/2024	1.8	N	N	N	40.028161	-105.035597
2-4-29-WHS-S01@3"	0.25	9/26/2024	1.8	N	N	N	40.028091	-105.035599
2-4-29-WHS-W01@3"	0.25	9/26/2024	2.7	N	N	N	40.028130	-105.035657
FLOWLINE								
21-29-FL-B01@3'	3	9/26/2024	0.0	N	N	Y	40.028151	-105.035478
21-29-FL-B02@3'	3	9/26/2024	2.1	N	N	Y	40.028323	-105.035564
21-29-FL-B03@3'	3	9/26/2024	1.0	N	N	Y	40.028537	-105.035519
22-29-FL-B01@3'	3	9/26/2024	0.7	N	N	Y	40.028143	-105.035545
22-29-FL-B02@3'	3	9/26/2024	2.4	N	N	Y	40.028313	-105.035597
22-29-FL-B03@3'	3	9/26/2024	0.8	N	N	Y	40.028542	-105.035535
12-29-FL-B01@3'	3	9/26/2024	7.4	N	N	Y	40.028148	-105.035640
12-29-FL-B02@3'	3	9/26/2024	0.3	N	N	Y	40.028547	-105.035550
2-4-29-FL-B01@3'	3	9/26/2024	0.7	N	N	Y	40.028141	-105.035576
2-4-29-FL-B02@3'	3	9/26/2024	2.2	N	N	Y	40.028326	-105.035599
2-4-29-FL-B03@3'	3	9/26/2024	0.6	N	N	Y	40.028544	-105.035543
2-0-29-FL-B01@3'	3	9/26/2024	1.2	N	N	Y	40.028141	-105.035515
2-0-29-FL-B02@3'	3	9/26/2024	2.8	N	N	Y	40.028309	-105.035585
2-0-29-FL-B03@3'	3	9/26/2024	0.8	N	N	Y	40.028540	-105.035523
0-2-29-FL-B01@3'	3	9/26/2024	4.1	N	N	Y	40.028147	-105.035673

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PRATT F UNIT 1
WELD COUNTY, COLORADO
CIVITAS RESOURCES, INC.



0-2-29-FL-B02@3'	3	9/26/2024	0.7	N	N	Y	40.028546	-105.035556
BACKGROUNDS								
WH-BG01@3"	0.25	9/26/2024	1.0	N	N	Y	40.028588	-105.035327
WH-BG01@3'	3	9/26/2024	0.7	N	N	Y	40.028588	-105.035327
WH-BG01@6'	6	9/26/2024	0.7	N	N	Y	40.028588	-105.035327
WH-BG02@3"	0.25	9/26/2024	0.7	N	N	Y	40.028599	-105.035210
WH-BG02@3'	3	9/26/2024	0.5	N	N	Y	40.028599	-105.035210
WH-BG02@6'	6	9/26/2024	0.8	N	N	Y	40.028599	-105.035210
WH-BG03@3"	0.25	9/26/2024	0.9	N	N	Y	40.028607	-105.035082
WH-BG03@3'	3	9/26/2024	1.0	N	N	Y	40.028607	-105.035082
WH-BG03@6'	6	9/26/2024	1.3	N	N	Y	40.028607	-105.035082
WH-BG04@3"	0.25	9/26/2024	0.4	N	N	Y	40.028627	-105.034928
WH-BG04@3'	3	9/26/2024	0.7	N	N	Y	40.028627	-105.034928
WH-BG04@6'	6	9/26/2024	1.0	N	N	Y	40.028627	-105.034928

Notes:

bgs= below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY - VOCs
PRATT F UNIT 1
WELD COUNTY, COLORADO
CIVITAS RESOURCES, INC.



Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO* (mg/kg)	TPH-DRO* (mg/kg)	TPH-RRO* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
GSSL (1)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
RSSL (2)			500			1.2	490	5.8	9.9	30	27	2
WELLHEAD												
21-29-WH-B01 @5'	9/26/2024	5	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
22-29-WH-B01 @5'	9/26/2024	5	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-0-29-WH-B01 @5'	9/26/2024	5	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-4-29-WH-B01 @5'	9/26/2024	5	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
FLOWLINE												
21-29-FL-B01 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
21-29-FL-B02 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
21-29-FL-B03 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
22-29-FL-B01 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	0.00581
22-29-FL-B02 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	0.0428
22-29-FL-B03 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
12-29-FL-B01 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
12-29-FL-B02 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-4-29-FL-B01 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-4-29-FL-B02 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-4-29-FL-B03 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-0-29-FL-B01 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-0-29-FL-B02 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
2-0-29-FL-B03 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
0-2-29-FL-B01 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408
0-2-29-FL-B02 @3'	9/26/2024	3	<0.500	<50.0	<50.0	<0.00200	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00408

Notes:

ECMC - Energy and Carbon Management Commission

(1) Standards for soil are taken from ECMC Table 915-1 Organic Compounds in Soils - Protection of Groundwater

(2) Standards for soil are taken from ECMC Table 915-1 Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

RRO - residual range organics

*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

Bold - exceeds ECMC Table 915-1 allowable level and background

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY
SOIL SUITABILITY FOR RECLAMATION
PRATT F UNIT 1
WELD COUNTY, COLORADO
CIVITAS RESOURCES, INC.



Soil Sample Location	Date Sampled	Depth	Boron (mg/L)	pH	SAR	EC (mmhos/cm)
ECMC Soil Suitability for Reclamation ⁽¹⁾			2	6-8.3	<6	<4
Background Limits			2.00	8.99	5.80	0.511
BACKGROUND						
WH-BG01@3"	9/26/2024	0.25	<2.00	7.72	0.0491	0.330
WH-BG01@3'	9/26/2024	3	<2.00	8.12	0.436	0.240
WH-BG01@6'	9/26/2024	6	<2.00	8.70	4.11	0.433
WH-BG02@3"	9/26/2024	0.25	<2.00	7.62	0.0538	0.329
WH-BG02@3'	9/26/2024	3	<2.00	8.05	0.199	0.279
WH-BG02@6'	9/26/2024	6	<2.00	8.78	2.90	0.321
WH-BG03@3"	9/26/2024	0.25	<2.00	7.92	0.0760	0.297
WH-BG03@3'	9/26/2024	3	<2.00	8.43	1.33	0.302
WH-BG03@6'	9/26/2024	6	<2.00	8.95	5.53	0.511
WH-BG04@3"	9/26/2024	0.25	<2.00	7.96	0.0716	0.243
WH-BG04@3'	9/26/2024	3	<2.00	8.52	1.49	0.326
WH-BG04@6'	9/26/2024	6	<2.00	8.99	5.80	0.467
SITE						
ECMC Soil Suitability for Reclamation ⁽¹⁾			2	6-8.3	<6	<4
Background Limits			2.00	8.99	5.80	0.511
21-29-WH-B01 @5'	9/26/2024	5	<2.00	8.49	2.18	0.384
21-29-FL-B01 @3'	9/26/2024	3	<2.00	8.75	8.07	0.652
21-29-FL-B02 @3'	9/26/2024	3	<2.00	8.54	4.08	0.427
21-29-FL-B03 @3'	9/26/2024	3	<2.00	8.41	2.50	0.330
22-29-WH-B01 @5'	9/26/2024	5	<2.00	8.49	5.40	0.627
22-29-FL-B01 @3'	9/26/2024	3	<2.00	8.69	7.16	0.631
22-29-FL-B02 @3'	9/26/2024	3	<2.00	8.75	13.8	1.360
22-29-FL-B03 @3'	9/26/2024	3	<2.00	8.25	0.244	0.182
12-29-FL-B01 @3'	9/26/2024	3	<2.00	8.93	9.97	0.686
12-29-FL-B02 @3'	9/26/2024	3	<2.00	8.29	0.252	0.168
2-4-29-WH-B01 @5'	9/26/2024	5	<2.00	9.08	9.42	0.789
2-4-29-FL-B01 @3'	9/26/2024	3	<2.00	8.51	4.85	0.537
2-4-29-FL-B02 @3'	9/26/2024	3	<2.00	8.87	9.12	0.621
2-4-29-FL-B03 @3'	9/26/2024	3	<2.00	8.19	0.206	0.175
2-0-29-WH-B01 @5'	9/26/2024	5	<2.00	8.86	7.09	0.565
2-0-29-FL-B01 @3'	9/26/2024	3	<2.00	8.78	7.32	0.538
2-0-29-FL-B02 @3'	9/26/2024	3	<2.00	8.55	4.87	0.396
2-0-29-FL-B03 @3'	9/26/2024	3	<2.00	8.45	2.93	0.363
0-2-29-FL-B01 @3'	9/26/2024	3	<2.00	8.21	15.7	3.030
0-2-29-FL-B02 @3'	9/26/2024	3	<2.00	8.28	1.03	0.229

TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY
SOIL SUITABILITY FOR RECLAMATION
PRATT F UNIT 1
WELD COUNTY, COLORADO
CIVITAS RESOURCES, INC.



Soil Sample Location	Date Sampled	Depth	Boron (mg/L)	pH	SAR	EC (mmhos/com)
ECMC Soil Suitability for Reclamation ⁽¹⁾			2	6-8.3	<6	<4
Background Limits			2.00	8.99	5.80	0.511

Notes:

1. Standards for soil are taken from ECMC Table 915-1, effective January 15, 2021

ECMC = Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/L = milligrams per liter

Bold - exceeds ECMC Table 915-1 allowable level and background

Blue highlight: Highest background concentration

Bolded values with red highlight: Concentrations greater than Max Bkg. x 1.25 and Table 915-1 Limits

TABLE 4
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
PRATT F UNIT 1
WELD COUNTY, COLORADO
CIVITAS RESOURCES, INC.

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
GSSL (1)		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
RSSL (1)		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
WELLHEAD															
21-29-WH-B01 @ 5'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
22-29-WH-B01 @ 5'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-0-29-WH-B01 @ 5'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-4-29-WH-B01 @ 5'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FLOWLINE															
21-29-FL-B01 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
21-29-FL-B02 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
21-29-FL-B03 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
22-29-FL-B01 @ 3'	9/26/2024	0.00614	0.0130	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
22-29-FL-B02 @ 3'	9/26/2024	0.0102	0.0332	0.00849	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0110	<0.00500	<0.00500
22-29-FL-B03 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
12-29-FL-B01 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
12-29-FL-B02 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-4-29-FL-B01 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-4-29-FL-B02 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-4-29-FL-B03 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-0-29-FL-B01 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-0-29-FL-B02 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-0-29-FL-B03 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
0-2-29-FL-B01 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
0-2-29-FL-B02 @ 3'	9/26/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

TABLE 5
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE - METALS
PRATT F UNIT 1
WELD COUNTY, COLORADO
CIVITAS RESOURCES, INC.



Soil Sample Location	Date Sampled	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium VI (mg/kg)
GSSL (1)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.000067
RSSL (2)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
Background Limits			8.00	194	0.334	20.4	16.8	22.0	1.69	0.1081	75.5	0.375
WELLHEAD												
21-29-WH-B01@5'	9/26/2024	5	4.68	131	0.280	15.0	11.4	13.9	1.04	<0.0865	51.7	<0.300
22-29-WH-B01@5'	9/26/2024	5	3.95	152	<0.200	12.1	9.40	13.0	0.880	0.0959	44.6	<0.300
2-0-29-WH-B01@5'	9/26/2024	5	4.91	114	<0.200	15.8	13.3	11.9	1.21	<0.0865	53.1	<0.300
2-4-29-WH-B01@5'	9/26/2024	5	2.58	85.9	<0.200	10.9	12.4	12.2	0.620	<0.0865	58.4	<0.300
FLOWLINE												
21-29-FL-B01@3'	9/26/2024	3	4.36	118	0.203	9.94	8.49	11.2	0.732	<0.0865	42.6	<0.300
21-29-FL-B02@3'	9/26/2024	3	5.28	191	<0.200	13.7	11.9	16.7	1.15	<0.0865	53.5	<0.300
21-29-FL-B03@3'	9/26/2024	3	5.22	147	<0.200	12.9	11.2	16.2	1.32	<0.0865	51.0	<0.300
22-29-FL-B01@3'	9/26/2024	3	4.70	170	<0.200	12.0	9.66	11.9	0.640	<0.0865	42.7	<0.300
22-29-FL-B02@3'	9/26/2024	3	5.93	162	0.244	11.5	11.2	17.2	1.02	<0.0865	53.7	<0.300
22-29-FL-B03@3'	9/26/2024	3	3.56	135	<0.200	54.2	9.92	10.7	0.980	<0.0865	44.5	<0.300
12-29-FL-B01@3'	9/26/2024	3	4.39	106	<0.200	13.4	9.31	12.9	0.439	<0.0865	48.8	<0.300
12-29-FL-B02@3'	9/26/2024	3	4.41	144	0.328	11.6	10.0	13.6	0.987	<0.0865	46.2	<0.300
2-4-29-FL-B01@3'	9/26/2024	3	7.09	147	<0.200	17.0	12.6	13.7	0.981	<0.0865	51.1	<0.300
2-4-29-FL-B02@3'	9/26/2024	3	14.8	169	0.593	22.3	17.2	34.0	1.91	<0.0865	91.0	<0.300
2-4-29-FL-B03@3'	9/26/2024	3	3.88	140	0.278	11.3	9.33	12.4	1.15	<0.0865	47.4	<0.300
2-0-29-FL-B01@3'	9/26/2024	3	4.88	113	0.258	10.9	9.30	12.8	0.744	<0.0865	46.6	<0.300
2-0-29-FL-B02@3'	9/26/2024	3	5.38	147	<0.200	11.7	10.5	15.8	1.05	<0.0865	49.9	<0.300
2-0-29-FL-B03@3'	9/26/2024	3	5.01	141	0.221	11.7	9.83	14.7	1.25	<0.0865	44.4	<0.300
0-2-29-FL-B01@3'	9/26/2024	3	3.87	241	<0.200	11.2	8.96	12.6	0.714	<0.0865	43.2	<0.300
0-2-29-FL-B02@3'	9/26/2024	3	4.19	127	0.272	12.5	9.59	13.4	1.17	<0.0865	58.7	<0.300
Background												
WH-BG01@3"	9/26/2024	0.25	6.40	143	0.267	13.9	13.4	17.5	1.13	<0.0865	55.7	<0.300
WH-BG01@3'	9/26/2024	3	5.32	149	0.216	13.1	11.6	16.4	1.09	<0.0865	50.6	<0.300
WH-BG01@6'	9/26/2024	6	4.86	121	<0.200	12.3	10.9	15.2	1.35	<0.0865	46.9	<0.300
WH-BG02@3"	9/26/2024	0.25	5.54	134	<0.200	13.1	12.6	15.6	0.847	<0.0865	51.1	<0.300
WH-BG02@3'	9/26/2024	3	5.32	151	<0.200	13.7	11.8	16.0	0.991	<0.0865	51.7	<0.300
WH-BG02@6'	9/26/2024	6	4.53	115	<0.200	11.0	9.61	14.5	1.26	<0.0865	43.3	<0.300
WH-BG03@3"	9/26/2024	0.25	6.31	139	0.230	14.0	12.7	16.5	0.704	<0.0865	54.5	<0.300
WH-BG03@3'	9/26/2024	3	5.33	155	<0.200	14.7	11.2	17.4	0.659	<0.0865	60.4	<0.300
WH-BG03@6'	9/26/2024	6	4.65	139	<0.200	12.2	9.98	15.2	0.637	<0.0865	48.2	<0.300
WH-BG04@3"	9/26/2024	0.25	4.83	139	<0.200	12.2	10.5	15.4	0.670	<0.0865	48.8	<0.300
WH-BG04@3'	9/26/2024	3	4.69	149	<0.200	13.1	10.1	15.7	0.647	<0.0865	50.0	<0.300
WH-BG04@6'	9/26/2024	6	5.23	154	<0.200	16.3	11.5	17.6	0.656	<0.0865	58.8	<0.300

1. Standards for soil are taken from ECOM Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

2. Standards for soil are taken from ECOM Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECOM = Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

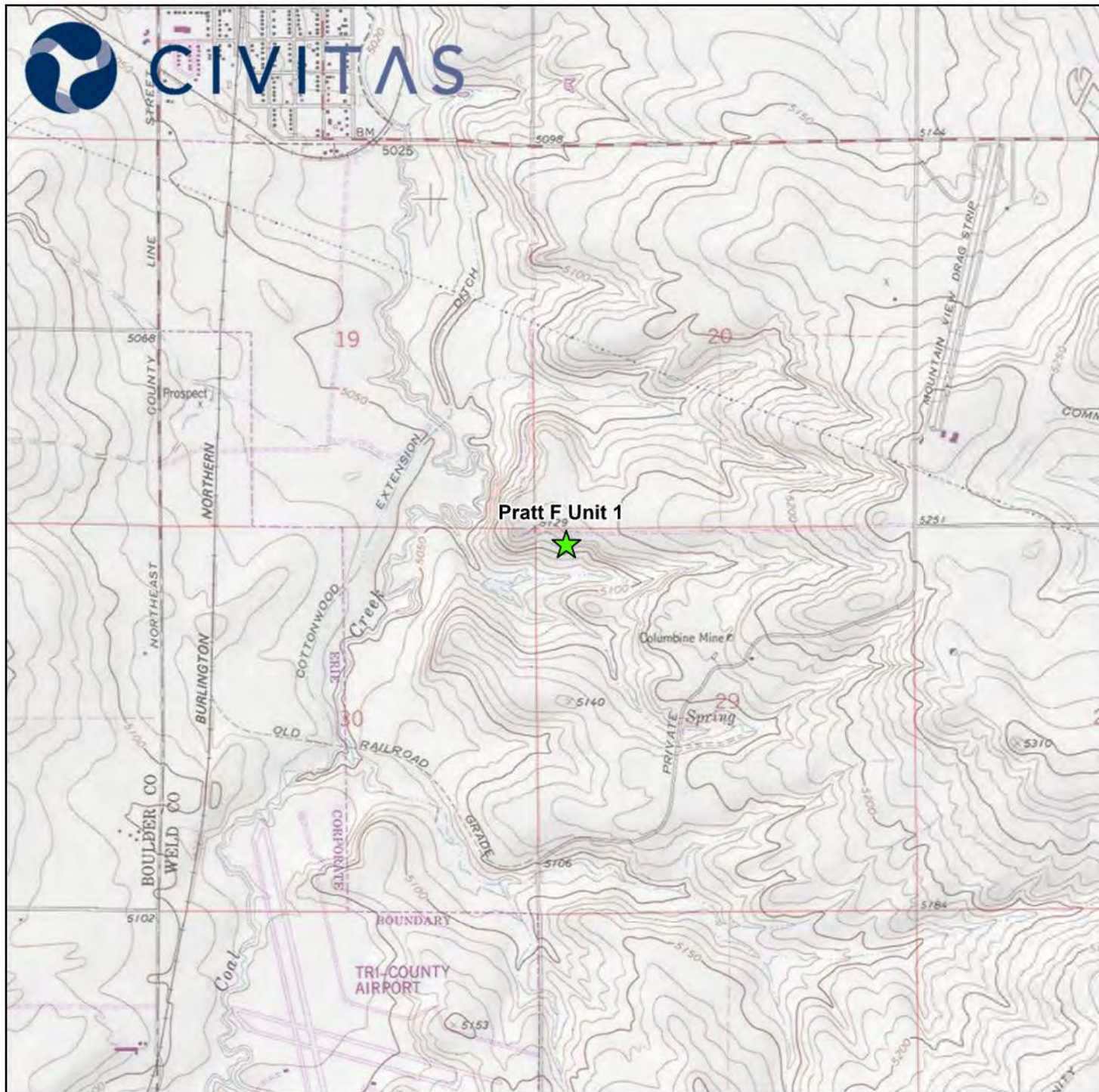
mg/kg = milligrams per kilogram

Blue highlight: Highest background concentration x 1.25

Bold values: greater than Table 915-1 standards

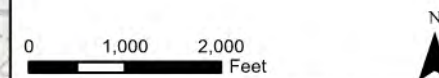
Bolded values with red highlight: Concentrations greater than Max Bkg. x 1.25 and Table 915-1 Limits

FIGURES



Legend

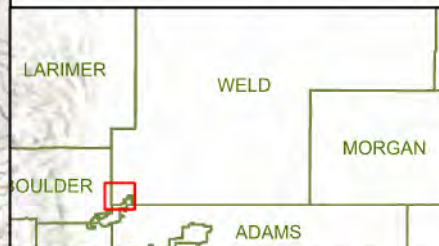
★ Site Location



CIVITAS RESOURCES

**Figure 1. Pratt F Unit 1
Topographic Site Location Map**

40.028127, -105.035444
NWNW Qtr-Qtr, Sec 29, T1N, R68W, 6PM
Weld County, CO

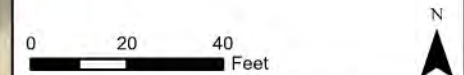


Author: JG Date: 10/14/2024

Data Sources: Esri, CGIAR, USGS, Maxar

Legend

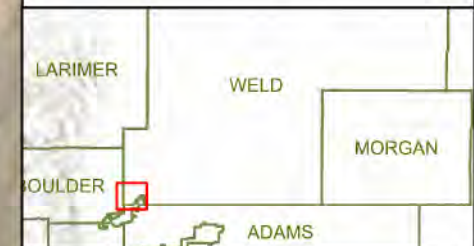
- Soil Sample Location
- ▲ Soil Screening Location
- Approximate Excavation Extent
- - - Approximate Flowline



CIVITAS RESOURCES

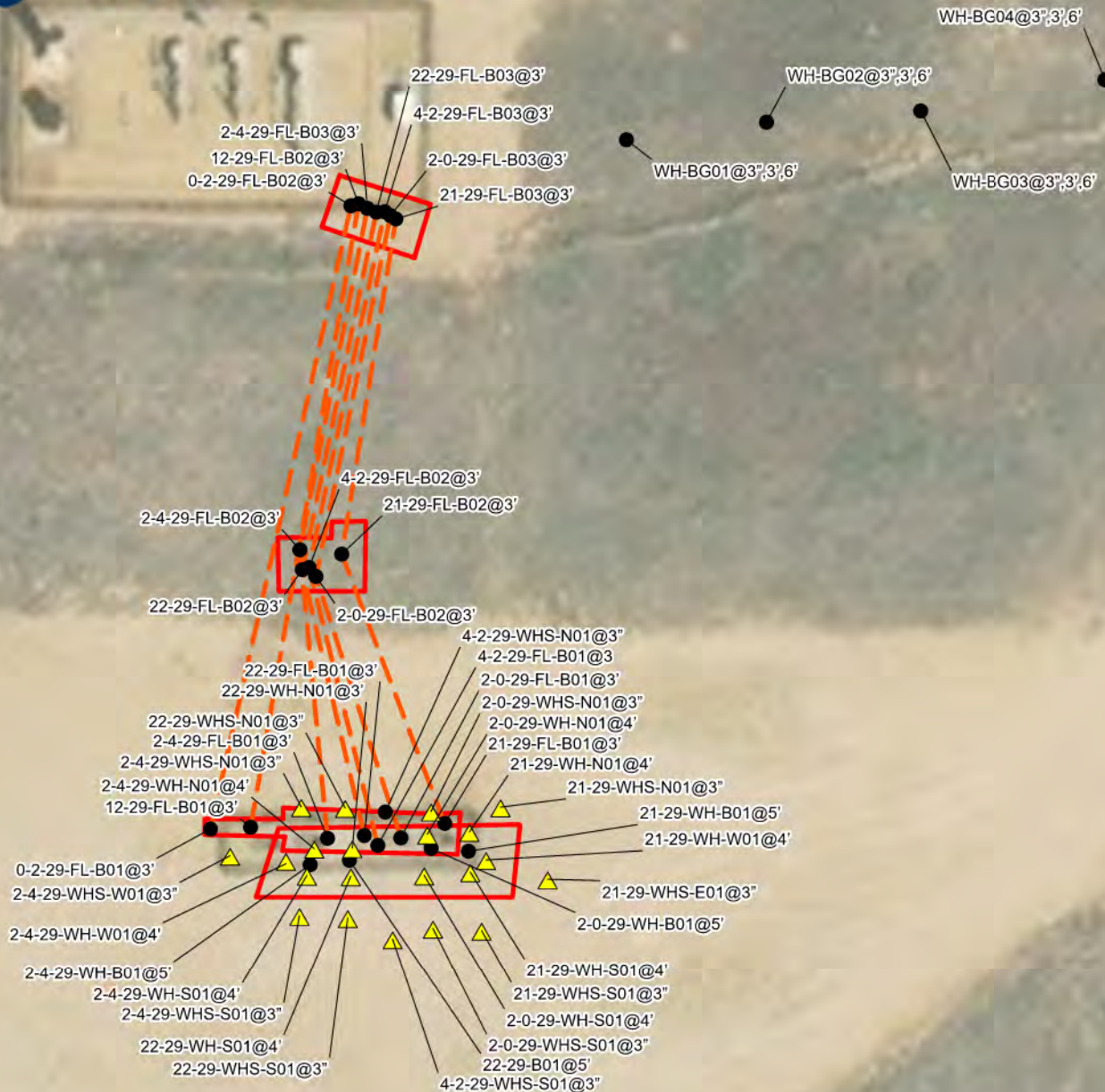
**Figure 2. Pratt F Unit 1
Inorganics Excavation and Sampling Map**

40.028127, -105.035444
NWNW Qtr-Qtr, Sec 29, T1N, R68W, 6PM
Weld County, CO



Author: JG Date: 10/14/2024

Data Sources: Esri, CGIAR, USGS, Maxar



LABORATORY ANALYTICAL DATA



ANALYTICAL REPORT

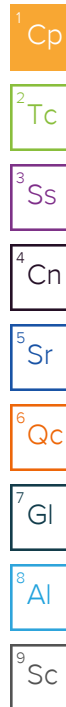
October 15, 2024

Revised Report

Civitas - CO

Sample Delivery Group: L1783096
Samples Received: 09/28/2024
Project Number:
Description: PRATT F UNIT 1

Report To: Mike Dinkel
4480 Garfield Street
Denver, CO 80216



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 mydata.pacelabs.com

ACCOUNT:
Civitas - CO

PROJECT:

SDG:
L1783096

DATE/TIME:
10/15/24 14:32

PAGE:
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22-29-WH-B01@5' L1783096-23	53
2-4-29-WH-B01@5' L1783096-24	55
21-29-FL-B01@3' L1783096-25	57
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4-2-29-FL-B01@3' L1783096-27	61
22-29-FL-B01@3' L1783096-28	63
2-4-29-FL-B01@3' L1783096-29	65
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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

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SAMPLE SUMMARY

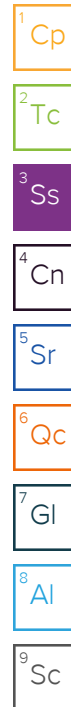
2-0-29-FL-B03@3' L1783096-01 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:30	10/06/24 10:30	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 04:33	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:17	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 07:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 00:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 11:07	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/09/24 21:38	AMM	Mt. Juliet, TN



21-29-FL-B03@3' L1783096-02 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:32	10/06/24 10:32	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 05:00	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:19	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 07:23	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 00:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 14:29	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/09/24 21:56	AMM	Mt. Juliet, TN

12-29-FL-B02@3' L1783096-03 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:34	10/06/24 10:34	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 05:09	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:21	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 07:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 00:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 15:02	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/09/24 22:13	AMM	Mt. Juliet, TN

0-2-29-FL-B02@3' L1783096-04 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:35	10/06/24 10:35	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 05:27	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:22	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 08:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 01:12	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

0-2-29-FL-B02@3' L1783096-04 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 15:15	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/09/24 22:31	AMM	Mt. Juliet, TN

WH-BG01@3" L1783096-05 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:26	10/07/24 16:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 05:35	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:37	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:41	LD	Mt. Juliet, TN

WH-BG01@3' L1783096-06 Solid

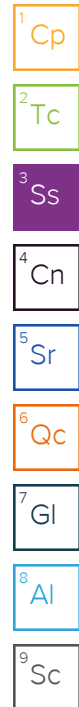
				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:28	10/07/24 16:28	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 05:44	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:39	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:44	LD	Mt. Juliet, TN

WH-BG01@6' L1783096-07 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:29	10/07/24 16:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 05:53	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:40	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:48	LD	Mt. Juliet, TN

WH-BG02@3" L1783096-08 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:37	10/06/24 10:37	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 06:11	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:51	LD	Mt. Juliet, TN



SAMPLE SUMMARY

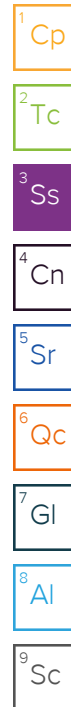
WH-BG02@3' L1783096-09 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:31	10/07/24 16:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 06:20	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 19:08	10/06/24 00:42	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:54	LD	Mt. Juliet, TN



WH-BG02@6' L1783096-10 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:33	10/07/24 16:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 07:23	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:44	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 17:58	LD	Mt. Juliet, TN

O-2-29-FL-B01@3' L1783096-11 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 12:35

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:39	10/06/24 10:39	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 07:32	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:26	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 18:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 08:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 01:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 14:42	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/09/24 22:48	AMM	Mt. Juliet, TN

4-2-29-WHS-N01@3" L1783096-12 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 12:41

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:40	10/06/24 10:40	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 07:41	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:27	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 18:04	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2377424	100	10/02/24 15:51	10/07/24 22:38	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2377497	8	10/02/24 15:51	10/08/24 14:29	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	50	10/09/24 16:18	10/10/24 18:58	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 03:49	AMM	Mt. Juliet, TN

SAMPLE SUMMARY

2-4-29-FL-B02@3' L1783096-13 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 15:40

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:42	10/06/24 10:42	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374679	1	10/08/24 15:52	10/09/24 07:50	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375289	5	10/06/24 08:27	10/06/24 18:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 08:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 01:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 13:48	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/09/24 23:06	AMM	Mt. Juliet, TN



22-29-FL-B02@3' L1783096-14 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 15:41

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:47	10/06/24 10:47	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 23:58	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 19:57	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 09:20	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 02:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 14:00	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/09/24 23:24	AMM	Mt. Juliet, TN

4-2-29-FL-B02@3' L1783096-15 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 15:42

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:49	10/06/24 10:49	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 16:17	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:36	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:00	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 09:43	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 02:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378538	1	10/09/24 16:18	10/10/24 14:13	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 00:17	AMM	Mt. Juliet, TN

2-0-29-FL-B02@3' L1783096-16 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 15:43

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:50	10/06/24 10:50	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 16:38	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376340	1	10/02/24 15:51	10/05/24 10:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 02:46	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

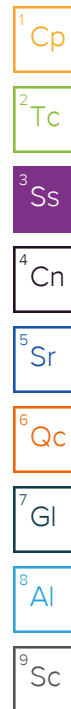
2-0-29-FL-B02@3' L1783096-16 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 15:43

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 14:18	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 00:34	AMM	Mt. Juliet, TN



21-29-FL-B02@3' L1783096-17 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 15:44

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:52	10/06/24 10:52	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 16:44	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:39	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 15:51	10/05/24 10:21	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376639	1	10/02/24 15:51	10/06/24 03:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 13:22	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 00:52	AMM	Mt. Juliet, TN

2-4-29-FL-B03@3' L1783096-18 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:54	10/06/24 10:54	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 17:15	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:41	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:18	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 15:51	10/05/24 10:41	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376643	1	10/02/24 15:51	10/05/24 16:38	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 13:36	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 01:10	AMM	Mt. Juliet, TN

22-29-FL-B03@3' L1783096-19 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:55	10/06/24 10:55	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 17:21	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:42	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 11:00	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376643	1	10/02/24 17:00	10/05/24 16:57	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 14:32	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 01:27	AMM	Mt. Juliet, TN

SAMPLE SUMMARY

4-2-29-FL-B03@3' L1783096-20 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:00	10/06/24 09:00	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 17:27	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 09:50	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 11:19	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376643	1	10/02/24 17:00	10/05/24 17:15	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 12:26	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 01:45	AMM	Mt. Juliet, TN



21-29-WH-B01@5' L1783096-21 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:02	10/06/24 09:02	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 17:33	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 09:52	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 11:39	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376643	1	10/02/24 17:00	10/05/24 17:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 13:08	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 02:03	AMM	Mt. Juliet, TN

2-0-29-WH-B01@5' L1783096-22 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:04	10/06/24 09:04	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 18:50	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 09:57	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 11:58	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376643	1	10/02/24 17:00	10/05/24 17:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 13:50	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 02:20	AMM	Mt. Juliet, TN

22-29-WH-B01@5' L1783096-23 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:05	10/06/24 09:05	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 18:59	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 09:58	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375301	5	10/06/24 08:23	10/06/24 20:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 12:18	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376643	1	10/02/24 17:00	10/05/24 18:12	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

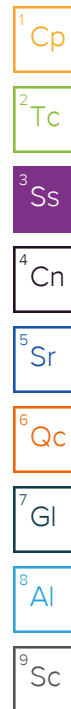
22-29-WH-B01@5' L1783096-23 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 15:29	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 02:38	AMM	Mt. Juliet, TN



2-4-29-WH-B01@5' L1783096-24 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:57	10/06/24 10:57	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 19:05	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:44	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375388	5	10/07/24 22:45	10/08/24 12:20	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 12:37	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376909	1	10/02/24 17:00	10/06/24 21:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 12:40	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 02:56	AMM	Mt. Juliet, TN

21-29-FL-B01@3' L1783096-25 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:07	10/06/24 09:07	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 19:11	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 10:00	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375388	5	10/07/24 22:45	10/08/24 12:37	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 12:57	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376909	1	10/02/24 17:00	10/06/24 22:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 10:34	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 03:13	AMM	Mt. Juliet, TN

2-0-29-FL-B01@3' L1783096-26 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:09	10/06/24 09:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 19:17	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 10:02	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375388	5	10/07/24 22:45	10/08/24 12:40	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 13:16	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376909	1	10/02/24 17:00	10/06/24 22:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 10:48	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378502	1	10/09/24 08:16	10/10/24 03:31	AMM	Mt. Juliet, TN

SAMPLE SUMMARY

4-2-29-FL-B01@3' L1783096-27 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2379579	1	10/11/24 16:42	10/11/24 16:42	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 19:24	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 10:03	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375388	5	10/07/24 22:45	10/08/24 12:43	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 13:36	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376909	1	10/02/24 17:00	10/06/24 22:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 11:44	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378503	1	10/09/24 09:08	10/09/24 22:44	LTB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

22-29-FL-B01@3' L1783096-28 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:10	10/06/24 09:10	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 19:30	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 10:05	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375388	5	10/07/24 22:45	10/08/24 12:53	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 13:55	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376909	1	10/02/24 17:00	10/06/24 22:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 12:54	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378503	1	10/09/24 09:08	10/09/24 23:01	LTB	Mt. Juliet, TN

⁷Gl

⁸Al

⁹Sc

2-4-29-FL-B01@3' L1783096-29 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376554	1	10/06/24 09:12	10/06/24 09:12	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374556	1	10/04/24 11:58	10/07/24 21:51	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376920	1	10/06/24 11:00	10/07/24 11:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376919	1	10/06/24 10:49	10/07/24 16:05	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376558	1	10/05/24 12:59	10/06/24 10:07	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375388	5	10/07/24 22:45	10/08/24 12:57	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376381	1	10/02/24 17:00	10/05/24 14:14	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376909	1	10/02/24 17:00	10/06/24 23:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 14:47	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378503	1	10/09/24 09:08	10/09/24 23:18	LTB	Mt. Juliet, TN

12-29-FL-B01@3' L1783096-30 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2376556	1	10/06/24 10:59	10/06/24 10:59	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374558	1	10/08/24 15:51	10/09/24 01:38	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376926	1	10/06/24 11:08	10/07/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376928	1	10/06/24 11:13	10/07/24 16:55	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2376559	1	10/05/24 13:02	10/06/24 08:45	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375382	5	10/08/24 06:01	10/08/24 19:42	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2376695	1	10/02/24 17:00	10/05/24 20:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2376909	1	10/02/24 17:00	10/06/24 23:35	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

12-29-FL-B01@3' L1783096-30 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2378539	1	10/10/24 04:07	10/10/24 14:04	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2378503	1	10/09/24 09:08	10/09/24 23:36	LTB	Mt. Juliet, TN

WH-BG03@3" L1783096-31 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:35	10/07/24 16:35	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374558	1	10/08/24 15:51	10/09/24 01:45	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:46	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375382	5	10/08/24 06:01	10/08/24 19:54	LD	Mt. Juliet, TN

WH-BG03@3' L1783096-32 Solid

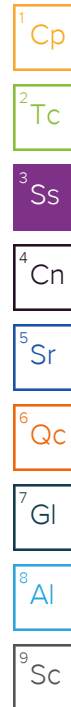
				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:36	10/07/24 16:36	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374558	1	10/08/24 15:51	10/09/24 02:28	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:48	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375382	5	10/08/24 06:01	10/08/24 19:57	LD	Mt. Juliet, TN

WH-BG03@6' L1783096-33 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:38	10/07/24 16:38	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374558	1	10/08/24 15:51	10/09/24 02:34	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:53	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375382	5	10/08/24 06:01	10/08/24 20:00	LD	Mt. Juliet, TN

WH-BG04@3" L1783096-34 Solid

				Collected by Ruffin Henry	Collected date/time 09/26/24 00:00	Received date/time 09/28/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:40	10/07/24 16:40	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374558	1	10/08/24 15:51	10/09/24 02:40	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:55	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375382	5	10/08/24 06:01	10/08/24 20:03	LD	Mt. Juliet, TN



SAMPLE SUMMARY

WH-BG04@3' L1783096-35 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375748	1	10/05/24 14:27	10/05/24 14:27	JTM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374558	1	10/08/24 15:51	10/09/24 02:46	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2376705	1	10/05/24 16:32	10/05/24 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2376709	1	10/05/24 16:27	10/05/24 21:30	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375800	1	10/08/24 14:04	10/08/24 17:58	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375382	5	10/08/24 06:01	10/08/24 20:06	LD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

WH-BG04@6' L1783096-36 Solid

Collected by
Ruffin Henry

Collected date/time
09/26/24 00:00

Received date/time
09/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2375792	1	10/07/24 16:45	10/07/24 16:45	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2374558	1	10/08/24 15:51	10/09/24 02:53	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2377296	1	10/07/24 10:53	10/08/24 11:30	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2377298	1	10/07/24 10:55	10/07/24 17:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2375802	1	10/05/24 12:52	10/06/24 00:57	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2375382	5	10/08/24 06:01	10/08/24 20:09	LD	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

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



Chris Ward
Project Manager

Report Revision History

Level II Report - Version 1: 10/14/24 13:17
Level II Report - Version 2: 10/15/24 13:12

Project Narrative

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Report reissued 10/15 by Chris Ward to update sample IDs (noted below) and add appropriate depth symbols. Requested by Robert Aronoff 10/14
20-29-FL-B03@3' to 2-0-29-FL-B03@3'
20-29-FL-B02@3' to 2-0-29-FL-B02@3'
4-2-29-W4S-N01@3" to 4-2-29-WHS-N01@3"
21-29-FL-BG01@3 to 21-29-FL-B01@3
2-0-29-FL-BG01@3 to 2-0-29-FL-B01@3



Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	2.93		1	10/06/2024 10:30	WG2376556

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 04:33	WG2374679

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.45	T8	1	10/07/2024 12:40	WG2376926

5
Sr

6
Qc

Sample Narrative:

L1783096-01 WG2376926: 8.45 at 19.9C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	363	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

9
Sc

Sample Narrative:

L1783096-01 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:17	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.01		0.200	5	10/06/2024 17:24	WG2375289
Barium	141		0.400	5	10/06/2024 17:24	WG2375289
Cadmium	0.221	J	0.200	5	10/06/2024 17:24	WG2375289
Copper	11.7		0.400	5	10/06/2024 17:24	WG2375289
Lead	9.83		0.200	5	10/06/2024 17:24	WG2375289
Nickel	14.7		0.400	5	10/06/2024 17:24	WG2375289
Selenium	1.25	J	0.260	5	10/06/2024 17:24	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:24	WG2375289
Zinc	44.4		0.740	5	10/06/2024 17:24	WG2375289

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 07:00	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120	10/05/2024 07:00	WG2376340

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 00:15	WG2376639
Toluene	ND		0.00500	1	10/06/2024 00:15	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 00:15	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 00:15	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 00:15	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 00:15	WG2376639
(S) Toluene-d8	96.5			75.0-131	10/06/2024 00:15	WG2376639
(S) 4-Bromofluorobenzene	101			67.0-138	10/06/2024 00:15	WG2376639
(S) 1,2-Dichloroethane-d4	120			70.0-130	10/06/2024 00:15	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 11:07	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 11:07	WG2378538
(S) o-Terphenyl	78.2			18.0-148	10/10/2024 11:07	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Anthracene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Chrysene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Fluoranthene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Fluorene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 21:38	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 21:38	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 21:38	WG2378502
Naphthalene	ND		0.00408	1	10/09/2024 21:38	WG2378502
Pyrene	ND		0.00500	1	10/09/2024 21:38	WG2378502
(S) p-Terphenyl-d14	106			23.0-120	10/09/2024 21:38	WG2378502
(S) Nitrobenzene-d5	81.2			14.0-149	10/09/2024 21:38	WG2378502
(S) 2-Fluorobiphenyl	97.9			34.0-125	10/09/2024 21:38	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	2.50		1	10/06/2024 10:32	WG2376556

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 05:00	WG2374679

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.41	T8	1	10/07/2024 12:40	WG2376926

Sample Narrative:
L1783096-02 WG2376926: 8.41 at 19.9C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	330	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

Sample Narrative:
L1783096-02 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:19	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.22		0.200	5	10/06/2024 17:08	WG2375289
Barium	147		0.400	5	10/06/2024 17:08	WG2375289
Cadmium	ND	O1	0.200	5	10/06/2024 17:08	WG2375289
Copper	12.9		0.400	5	10/06/2024 17:08	WG2375289
Lead	11.2		0.200	5	10/06/2024 17:08	WG2375289
Nickel	16.2		0.400	5	10/06/2024 17:08	WG2375289
Selenium	1.32	J	0.260	5	10/06/2024 17:08	WG2375289
Silver	ND	O1	0.0865	5	10/06/2024 17:08	WG2375289
Zinc	51.0		0.740	5	10/06/2024 17:08	WG2375289

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 07:23	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120	10/05/2024 07:23	WG2376340

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 00:34	WG2376639
Toluene	ND		0.00500	1	10/06/2024 00:34	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 00:34	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 00:34	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 00:34	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 00:34	WG2376639
(S) Toluene-d8	98.8			75.0-131	10/06/2024 00:34	WG2376639
(S) 4-Bromofluorobenzene	103			67.0-138	10/06/2024 00:34	WG2376639
(S) 1,2-Dichloroethane-d4	121			70.0-130	10/06/2024 00:34	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:29	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:29	WG2378538
(S) o-Terphenyl	82.9			18.0-148	10/10/2024 14:29	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Anthracene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Chrysene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Fluoranthene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Fluorene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 21:56	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 21:56	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 21:56	WG2378502
Naphthalene	ND		0.00408	1	10/09/2024 21:56	WG2378502
Pyrene	ND		0.00500	1	10/09/2024 21:56	WG2378502
(S) p-Terphenyl-d14	104			23.0-120	10/09/2024 21:56	WG2378502
(S) Nitrobenzene-d5	87.6			14.0-149	10/09/2024 21:56	WG2378502
(S) 2-Fluorobiphenyl	98.6			34.0-125	10/09/2024 21:56	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.252		1	10/06/2024 10:34	WG2376556

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 05:09	WG2374679

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.29	T8	1	10/07/2024 12:40	WG2376926

Sample Narrative:
L1783096-03 WG2376926: 8.29 at 20.1C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	168	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

Sample Narrative:
L1783096-03 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:21	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.41		0.200	5	10/06/2024 17:28	WG2375289
Barium	144		0.400	5	10/06/2024 17:28	WG2375289
Cadmium	0.328	J	0.200	5	10/06/2024 17:28	WG2375289
Copper	11.6		0.400	5	10/06/2024 17:28	WG2375289
Lead	10.0		0.200	5	10/06/2024 17:28	WG2375289
Nickel	13.6		0.400	5	10/06/2024 17:28	WG2375289
Selenium	0.987	J	0.260	5	10/06/2024 17:28	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:28	WG2375289
Zinc	46.2		0.740	5	10/06/2024 17:28	WG2375289

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 07:47	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120	10/05/2024 07:47	WG2376340

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 00:53	WG2376639
Toluene	ND		0.00500	1	10/06/2024 00:53	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 00:53	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 00:53	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 00:53	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 00:53	WG2376639
(S) Toluene-d8	98.4			75.0-131	10/06/2024 00:53	WG2376639
(S) 4-Bromofluorobenzene	100			67.0-138	10/06/2024 00:53	WG2376639
(S) 1,2-Dichloroethane-d4	124			70.0-130	10/06/2024 00:53	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 15:02	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 15:02	WG2378538
(S) o-Terphenyl	80.8			18.0-148	10/10/2024 15:02	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Anthracene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Chrysene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Fluoranthene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Fluorene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 22:13	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 22:13	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 22:13	WG2378502
Naphthalene	ND		0.00408	1	10/09/2024 22:13	WG2378502
Pyrene	ND		0.00500	1	10/09/2024 22:13	WG2378502
(S) p-Terphenyl-d14	111			23.0-120	10/09/2024 22:13	WG2378502
(S) Nitrobenzene-d5	94.5			14.0-149	10/09/2024 22:13	WG2378502
(S) 2-Fluorobiphenyl	103			34.0-125	10/09/2024 22:13	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	1.03		1	10/06/2024 10:35	WG2376556

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 05:27	WG2374679

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.28	T8	1	10/07/2024 12:40	WG2376926

5
Sr

6
Qc

Sample Narrative:

L1783096-04 WG2376926: 8.28 at 20C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	229	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

9
Sc

Sample Narrative:

L1783096-04 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:22	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.19		0.200	5	10/06/2024 17:31	WG2375289
Barium	127		0.400	5	10/06/2024 17:31	WG2375289
Cadmium	0.272	J	0.200	5	10/06/2024 17:31	WG2375289
Copper	12.5		0.400	5	10/06/2024 17:31	WG2375289
Lead	9.59		0.200	5	10/06/2024 17:31	WG2375289
Nickel	13.4		0.400	5	10/06/2024 17:31	WG2375289
Selenium	1.17	J	0.260	5	10/06/2024 17:31	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:31	WG2375289
Zinc	58.7		0.740	5	10/06/2024 17:31	WG2375289

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 08:10	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120	10/05/2024 08:10	WG2376340

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 01:12	WG2376639
Toluene	ND		0.00500	1	10/06/2024 01:12	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 01:12	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 01:12	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 01:12	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 01:12	WG2376639
(S) Toluene-d8	97.9			75.0-131	10/06/2024 01:12	WG2376639
(S) 4-Bromofluorobenzene	101			67.0-138	10/06/2024 01:12	WG2376639
(S) 1,2-Dichloroethane-d4	121			70.0-130	10/06/2024 01:12	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 15:15	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 15:15	WG2378538
(S) o-Terphenyl	83.3			18.0-148	10/10/2024 15:15	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Anthracene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Chrysene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Fluoranthene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Fluorene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 22:31	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 22:31	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 22:31	WG2378502
Naphthalene	ND		0.00408	1	10/09/2024 22:31	WG2378502
Pyrene	ND		0.00500	1	10/09/2024 22:31	WG2378502
(S) p-Terphenyl-d14	122	J1		23.0-120	10/09/2024 22:31	WG2378502
(S) Nitrobenzene-d5	107			14.0-149	10/09/2024 22:31	WG2378502
(S) 2-Fluorobiphenyl	114			34.0-125	10/09/2024 22:31	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.0491		1	10/07/2024 16:26	WG2375792

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 05:35	WG2374679

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	7.72	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-05 WG2377296: 7.72 at 20.4C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	330	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-05 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:37	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	6.40		0.200	5	10/06/2024 17:41	WG2375289
Barium	143		0.400	5	10/06/2024 17:41	WG2375289
Cadmium	0.267	J	0.200	5	10/06/2024 17:41	WG2375289
Copper	13.9		0.400	5	10/06/2024 17:41	WG2375289
Lead	13.4		0.200	5	10/06/2024 17:41	WG2375289
Nickel	17.5		0.400	5	10/06/2024 17:41	WG2375289
Selenium	1.13	J	0.260	5	10/06/2024 17:41	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:41	WG2375289
Zinc	55.7		0.740	5	10/06/2024 17:41	WG2375289

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.436		1	10/07/2024 16:28	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 05:44	WG2374679

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.12	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:

L1783096-06 WG2377296: 8.12 at 20.4C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	240	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:

L1783096-06 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:39	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.32		0.200	5	10/06/2024 17:44	WG2375289
Barium	149		0.400	5	10/06/2024 17:44	WG2375289
Cadmium	0.216	J	0.200	5	10/06/2024 17:44	WG2375289
Copper	13.1		0.400	5	10/06/2024 17:44	WG2375289
Lead	11.6		0.200	5	10/06/2024 17:44	WG2375289
Nickel	16.4		0.400	5	10/06/2024 17:44	WG2375289
Selenium	1.09	J	0.260	5	10/06/2024 17:44	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:44	WG2375289
Zinc	50.6		0.740	5	10/06/2024 17:44	WG2375289

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	4.11		1	10/07/2024 16:29	WG2375792

¹Cp

²Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 05:53	WG2374679

³Ss

⁴Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.70	T8	1	10/08/2024 11:30	WG2377296

⁵Sr

⁶Qc

Sample Narrative:

L1783096-07 WG2377296: 8.7 at 20.4C

⁷Gl

⁸Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	433	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

⁹Sc

Sample Narrative:

L1783096-07 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:40	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.86		0.200	5	10/06/2024 17:48	WG2375289
Barium	121		0.400	5	10/06/2024 17:48	WG2375289
Cadmium	ND		0.200	5	10/06/2024 17:48	WG2375289
Copper	12.3		0.400	5	10/06/2024 17:48	WG2375289
Lead	10.9		0.200	5	10/06/2024 17:48	WG2375289
Nickel	15.2		0.400	5	10/06/2024 17:48	WG2375289
Selenium	1.35	J	0.260	5	10/06/2024 17:48	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:48	WG2375289
Zinc	46.9		0.740	5	10/06/2024 17:48	WG2375289

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.0538		1	10/06/2024 10:37	WG2376556

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 06:11	WG2374679

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	7.62	T8	1	10/07/2024 12:40	WG2376926

Sample Narrative:
L1783096-08 WG2376926: 7.62 at 20.2C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	329	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

Sample Narrative:
L1783096-08 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:24	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.54		0.200	5	10/06/2024 17:51	WG2375289
Barium	134		0.400	5	10/06/2024 17:51	WG2375289
Cadmium	ND		0.200	5	10/06/2024 17:51	WG2375289
Copper	13.1		0.400	5	10/06/2024 17:51	WG2375289
Lead	12.6		0.200	5	10/06/2024 17:51	WG2375289
Nickel	15.6		0.400	5	10/06/2024 17:51	WG2375289
Selenium	0.847	J	0.260	5	10/06/2024 17:51	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:51	WG2375289
Zinc	51.1		0.740	5	10/06/2024 17:51	WG2375289

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.199		1	10/07/2024 16:31	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 06:20	WG2374679

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.05	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-09 WG2377296: 8.05 at 20.3C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	279	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-09 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:42	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.32		0.200	5	10/06/2024 17:54	WG2375289
Barium	151		0.400	5	10/06/2024 17:54	WG2375289
Cadmium	ND		0.200	5	10/06/2024 17:54	WG2375289
Copper	13.7		0.400	5	10/06/2024 17:54	WG2375289
Lead	11.8		0.200	5	10/06/2024 17:54	WG2375289
Nickel	16.0		0.400	5	10/06/2024 17:54	WG2375289
Selenium	0.991	J	0.260	5	10/06/2024 17:54	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:54	WG2375289
Zinc	51.7		0.740	5	10/06/2024 17:54	WG2375289

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	2.90		1	10/07/2024 16:33	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 07:23	WG2374679

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.78	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-10 WG2377296: 8.78 at 20.2C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	321	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-10 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:44	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.53		0.200	5	10/06/2024 17:58	WG2375289
Barium	115		0.400	5	10/06/2024 17:58	WG2375289
Cadmium	ND		0.200	5	10/06/2024 17:58	WG2375289
Copper	11.0		0.400	5	10/06/2024 17:58	WG2375289
Lead	9.61		0.200	5	10/06/2024 17:58	WG2375289
Nickel	14.5		0.400	5	10/06/2024 17:58	WG2375289
Selenium	1.26	J	0.260	5	10/06/2024 17:58	WG2375289
Silver	ND		0.0865	5	10/06/2024 17:58	WG2375289
Zinc	43.3		0.740	5	10/06/2024 17:58	WG2375289

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	15.7		1	10/06/2024 10:39	WG2376556

¹Cp

²Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 07:32	WG2374679

³Ss

⁴Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.21	T8	1	10/07/2024 12:40	WG2376926

⁵Sr

⁶Qc

Sample Narrative:

L1783096-11 WG2376926: 8.21 at 20.1C

⁷Gl

⁸Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	3030	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

⁹Sc

Sample Narrative:

L1783096-11 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:26	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	3.87		0.200	5	10/06/2024 18:01	WG2375289
Barium	241		0.400	5	10/06/2024 18:01	WG2375289
Cadmium	ND		0.200	5	10/06/2024 18:01	WG2375289
Copper	11.2		0.400	5	10/06/2024 18:01	WG2375289
Lead	8.96		0.200	5	10/06/2024 18:01	WG2375289
Nickel	12.6		0.400	5	10/06/2024 18:01	WG2375289
Selenium	0.714	J	0.260	5	10/06/2024 18:01	WG2375289
Silver	ND		0.0865	5	10/06/2024 18:01	WG2375289
Zinc	43.2		0.740	5	10/06/2024 18:01	WG2375289

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 08:34	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120	10/05/2024 08:34	WG2376340

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 01:30	WG2376639
Toluene	ND		0.00500	1	10/06/2024 01:30	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 01:30	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 01:30	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 01:30	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 01:30	WG2376639
(S) Toluene-d8	97.8			75.0-131	10/06/2024 01:30	WG2376639
(S) 4-Bromofluorobenzene	99.7			67.0-138	10/06/2024 01:30	WG2376639
(S) 1,2-Dichloroethane-d4	123			70.0-130	10/06/2024 01:30	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:42	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:42	WG2378538
(S) o-Terphenyl	59.1			18.0-148	10/10/2024 14:42	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Anthracene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Chrysene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Fluoranthene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Fluorene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 22:48	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 22:48	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 22:48	WG2378502
Naphthalene	ND		0.00408	1	10/09/2024 22:48	WG2378502
Pyrene	ND		0.00500	1	10/09/2024 22:48	WG2378502
(S) p-Terphenyl-d14	100			23.0-120	10/09/2024 22:48	WG2378502
(S) Nitrobenzene-d5	89.9			14.0-149	10/09/2024 22:48	WG2378502
(S) 2-Fluorobiphenyl	103			34.0-125	10/09/2024 22:48	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	3.52		1	10/06/2024 10:40	WG2376556

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 07:41	WG2374679

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.43	T8	1	10/07/2024 12:40	WG2376926

5
Sr

6
Qc

Sample Narrative:

L1783096-12 WG2376926: 8.43 at 19.9C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	424	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

9
Sc

Sample Narrative:

L1783096-12 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:27	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	3.46		0.200	5	10/06/2024 18:04	WG2375289
Barium	87.7		0.400	5	10/06/2024 18:04	WG2375289
Cadmium	ND		0.200	5	10/06/2024 18:04	WG2375289
Copper	10.1		0.400	5	10/06/2024 18:04	WG2375289
Lead	7.88		0.200	5	10/06/2024 18:04	WG2375289
Nickel	9.61		0.400	5	10/06/2024 18:04	WG2375289
Selenium	0.932	J	0.260	5	10/06/2024 18:04	WG2375289
Silver	ND		0.0865	5	10/06/2024 18:04	WG2375289
Zinc	32.9		0.740	5	10/06/2024 18:04	WG2375289

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	18.3		2.17	100	10/07/2024 22:38	WG2377424
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120	10/07/2024 22:38	WG2377424

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00374	8	10/08/2024 14:29	WG2377497
Toluene	ND		0.0104	8	10/08/2024 14:29	WG2377497
Ethylbenzene	ND		0.00590	8	10/08/2024 14:29	WG2377497
Xylenes, Total	0.0156	J	0.0100	8	10/08/2024 14:29	WG2377497
1,2,4-Trimethylbenzene	ND		0.0126	8	10/08/2024 14:29	WG2377497
1,3,5-Trimethylbenzene	0.379		0.0160	8	10/08/2024 14:29	WG2377497
(S) Toluene-d8	99.4			75.0-131	10/08/2024 14:29	WG2377497
(S) 4-Bromofluorobenzene	106			67.0-138	10/08/2024 14:29	WG2377497
(S) 1,2-Dichloroethane-d4	105			70.0-130	10/08/2024 14:29	WG2377497

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3190		80.5	50	10/10/2024 18:58	WG2378538
C28-C36 Motor Oil Range	1870		50.0	50	10/10/2024 18:58	WG2378538
(S) o-Terphenyl	0.000	J7		18.0-148	10/10/2024 18:58	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0640		0.00500	1	10/10/2024 03:49	WG2378502
Anthracene	0.0971		0.00500	1	10/10/2024 03:49	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 03:49	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 03:49	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 03:49	WG2378502
Benzo(a)pyrene	0.00894		0.00500	1	10/10/2024 03:49	WG2378502
Chrysene	0.0122		0.00500	1	10/10/2024 03:49	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 03:49	WG2378502
Fluoranthene	0.0254		0.00500	1	10/10/2024 03:49	WG2378502
Fluorene	0.132		0.00500	1	10/10/2024 03:49	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 03:49	WG2378502
1-Methylnaphthalene	0.153		0.00500	1	10/10/2024 03:49	WG2378502
2-Methylnaphthalene	0.120		0.00500	1	10/10/2024 03:49	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 03:49	WG2378502
Pyrene	0.0251		0.00500	1	10/10/2024 03:49	WG2378502
(S) p-Terphenyl-d14	109			23.0-120	10/10/2024 03:49	WG2378502
(S) Nitrobenzene-d5	0.000	J2		14.0-149	10/10/2024 03:49	WG2378502
(S) 2-Fluorobiphenyl	82.9			34.0-125	10/10/2024 03:49	WG2378502

Sample Narrative:

L1783096-12 WG2378502: Surrogate failure due to matrix interference.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	9.12		1	10/06/2024 10:42	WG2376556

¹Cp

²Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 07:50	WG2374679

³Ss

⁴Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.87	T8	1	10/07/2024 12:40	WG2376926

⁵Sr

⁶Qc

Sample Narrative:

L1783096-13 WG2376926: 8.87 at 19.4C

⁷Gl

⁸Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	621	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

⁹Sc

Sample Narrative:

L1783096-13 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:32	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	14.8		0.200	5	10/06/2024 18:08	WG2375289
Barium	169		0.400	5	10/06/2024 18:08	WG2375289
Cadmium	0.593	J	0.200	5	10/06/2024 18:08	WG2375289
Copper	22.3		0.400	5	10/06/2024 18:08	WG2375289
Lead	17.2		0.200	5	10/06/2024 18:08	WG2375289
Nickel	34.0		0.400	5	10/06/2024 18:08	WG2375289
Selenium	1.91	J	0.260	5	10/06/2024 18:08	WG2375289
Silver	ND		0.0865	5	10/06/2024 18:08	WG2375289
Zinc	91.0		0.740	5	10/06/2024 18:08	WG2375289

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 08:57	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120	10/05/2024 08:57	WG2376340

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 01:49	WG2376639
Toluene	ND		0.00500	1	10/06/2024 01:49	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 01:49	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 01:49	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 01:49	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 01:49	WG2376639
(S) Toluene-d8	98.4			75.0-131	10/06/2024 01:49	WG2376639
(S) 4-Bromofluorobenzene	102			67.0-138	10/06/2024 01:49	WG2376639
(S) 1,2-Dichloroethane-d4	121			70.0-130	10/06/2024 01:49	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 13:48	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 13:48	WG2378538
(S) o-Terphenyl	87.9			18.0-148	10/10/2024 13:48	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Anthracene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Chrysene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Fluoranthene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Fluorene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 23:06	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 23:06	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 23:06	WG2378502
Naphthalene	ND		0.00408	1	10/09/2024 23:06	WG2378502
Pyrene	ND		0.00500	1	10/09/2024 23:06	WG2378502
(S) p-Terphenyl-d14	122	J1		23.0-120	10/09/2024 23:06	WG2378502
(S) Nitrobenzene-d5	109			14.0-149	10/09/2024 23:06	WG2378502
(S) 2-Fluorobiphenyl	117			34.0-125	10/09/2024 23:06	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	13.8		1	10/06/2024 10:47	WG2376556

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 23:58	WG2374556

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.75	T8	1	10/07/2024 12:40	WG2376926

5
Sr

6
Qc

Sample Narrative:
L1783096-14 WG2376926: 8.75 at 19.2C

7
Gl

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	1360	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

8
Al

Sample Narrative:
L1783096-14 WG2376928: at 25C

9
Sc

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:34	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.93		0.200	5	10/06/2024 19:57	WG2375301
Barium	162		0.400	5	10/06/2024 19:57	WG2375301
Cadmium	0.244	J	0.200	5	10/06/2024 19:57	WG2375301
Copper	11.5		0.400	5	10/06/2024 19:57	WG2375301
Lead	11.2		0.200	5	10/06/2024 19:57	WG2375301
Nickel	17.2		0.400	5	10/06/2024 19:57	WG2375301
Selenium	1.02	J	0.260	5	10/06/2024 19:57	WG2375301
Silver	ND		0.0865	5	10/06/2024 19:57	WG2375301
Zinc	53.7		0.740	5	10/06/2024 19:57	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 09:20	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120	10/05/2024 09:20	WG2376340

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 02:08	WG2376639
Toluene	ND		0.00500	1	10/06/2024 02:08	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 02:08	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 02:08	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 02:08	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 02:08	WG2376639
(S) Toluene-d8	97.6			75.0-131	10/06/2024 02:08	WG2376639
(S) 4-Bromofluorobenzene	102			67.0-138	10/06/2024 02:08	WG2376639
(S) 1,2-Dichloroethane-d4	118			70.0-130	10/06/2024 02:08	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:00	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:00	WG2378538
(S) o-Terphenyl	69.4			18.0-148	10/10/2024 14:00	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.00849		0.00500	1	10/09/2024 23:24	WG2378502
Anthracene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Chrysene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Fluoranthene	ND		0.00500	1	10/09/2024 23:24	WG2378502
Fluorene	0.0110		0.00500	1	10/09/2024 23:24	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 23:24	WG2378502
1-Methylnaphthalene	0.0102	U	0.00500	1	10/09/2024 23:24	WG2378502
2-Methylnaphthalene	0.0332		0.00500	1	10/09/2024 23:24	WG2378502
Naphthalene	0.0428		0.00408	1	10/09/2024 23:24	WG2378502
Pyrene	ND		0.00500	1	10/09/2024 23:24	WG2378502
(S) p-Terphenyl-d14	106			23.0-120	10/09/2024 23:24	WG2378502
(S) Nitrobenzene-d5	86.2			14.0-149	10/09/2024 23:24	WG2378502
(S) 2-Fluorobiphenyl	96.6			34.0-125	10/09/2024 23:24	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	10.6		1	10/06/2024 10:49	WG2376556

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 16:17	WG2374556

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.85	T8	1	10/07/2024 12:40	WG2376926

5
Sr

6
Qc

Sample Narrative:

L1783096-15 WG2376926: 8.85 at 19.5C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	824	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

9
Sc

Sample Narrative:

L1783096-15 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:36	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	7.92		0.200	5	10/06/2024 20:00	WG2375301
Barium	181		0.400	5	10/06/2024 20:00	WG2375301
Cadmium	0.337	J	0.200	5	10/06/2024 20:00	WG2375301
Copper	14.7		0.400	5	10/06/2024 20:00	WG2375301
Lead	13.2		0.200	5	10/06/2024 20:00	WG2375301
Nickel	17.6		0.400	5	10/06/2024 20:00	WG2375301
Selenium	0.930	J	0.260	5	10/06/2024 20:00	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:00	WG2375301
Zinc	57.1		0.740	5	10/06/2024 20:00	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 09:43	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120	10/05/2024 09:43	WG2376340

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 02:27	WG2376639
Toluene	ND		0.00500	1	10/06/2024 02:27	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 02:27	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 02:27	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 02:27	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 02:27	WG2376639
(S) Toluene-d8	97.8			75.0-131	10/06/2024 02:27	WG2376639
(S) 4-Bromofluorobenzene	97.4			67.0-138	10/06/2024 02:27	WG2376639
(S) 1,2-Dichloroethane-d4	123			70.0-130	10/06/2024 02:27	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:13	WG2378538
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:13	WG2378538
(S) o-Terphenyl	72.5			18.0-148	10/10/2024 14:13	WG2378538

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 00:17	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 00:17	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 00:17	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 00:17	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 00:17	WG2378502
(S) p-Terphenyl-d14	110			23.0-120	10/10/2024 00:17	WG2378502
(S) Nitrobenzene-d5	84.9			14.0-149	10/10/2024 00:17	WG2378502
(S) 2-Fluorobiphenyl	102			34.0-125	10/10/2024 00:17	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	4.87		1	10/06/2024 10:50	WG2376556

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 16:38	WG2374556

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.55	T8	1	10/07/2024 12:40	WG2376926

5
Sr

6
Qc

Sample Narrative:

L1783096-16 WG2376926: 8.55 at 19.6C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	396	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

9
Sc

Sample Narrative:

L1783096-16 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:37	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.38		0.200	5	10/06/2024 20:03	WG2375301
Barium	147		0.400	5	10/06/2024 20:03	WG2375301
Cadmium	ND		0.200	5	10/06/2024 20:03	WG2375301
Copper	11.7		0.400	5	10/06/2024 20:03	WG2375301
Lead	10.5		0.200	5	10/06/2024 20:03	WG2375301
Nickel	15.8		0.400	5	10/06/2024 20:03	WG2375301
Selenium	1.05	J	0.260	5	10/06/2024 20:03	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:03	WG2375301
Zinc	49.9		0.740	5	10/06/2024 20:03	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 10:07	WG2376340
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120	10/05/2024 10:07	WG2376340

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 02:46	WG2376639
Toluene	ND		0.00500	1	10/06/2024 02:46	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 02:46	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 02:46	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 02:46	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 02:46	WG2376639
(S) Toluene-d8	98.3			75.0-131	10/06/2024 02:46	WG2376639
(S) 4-Bromofluorobenzene	99.4			67.0-138	10/06/2024 02:46	WG2376639
(S) 1,2-Dichloroethane-d4	119			70.0-130	10/06/2024 02:46	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:18	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:18	WG2378539
(S) o-Terphenyl	60.7			18.0-148	10/10/2024 14:18	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 00:34	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 00:34	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 00:34	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 00:34	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 00:34	WG2378502
(S) p-Terphenyl-d14	105			23.0-120	10/10/2024 00:34	WG2378502
(S) Nitrobenzene-d5	90.9			14.0-149	10/10/2024 00:34	WG2378502
(S) 2-Fluorobiphenyl	101			34.0-125	10/10/2024 00:34	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	4.08		1	10/06/2024 10:52	WG2376556

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND	J6	0.300	1	10/07/2024 16:44	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.54	T8	1	10/07/2024 12:40	WG2376926

Sample Narrative:
L1783096-17 WG2376926: 8.54 at 19.3C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	427	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

Sample Narrative:
L1783096-17 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:39	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.28		0.200	5	10/06/2024 20:07	WG2375301
Barium	191		0.400	5	10/06/2024 20:07	WG2375301
Cadmium	ND		0.200	5	10/06/2024 20:07	WG2375301
Copper	13.7		0.400	5	10/06/2024 20:07	WG2375301
Lead	11.9		0.200	5	10/06/2024 20:07	WG2375301
Nickel	16.7		0.400	5	10/06/2024 20:07	WG2375301
Selenium	1.15	J	0.260	5	10/06/2024 20:07	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:07	WG2375301
Zinc	53.5		0.740	5	10/06/2024 20:07	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 10:21	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	92.4			77.0-120	10/05/2024 10:21	WG2376381

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 03:04	WG2376639
Toluene	ND		0.00500	1	10/06/2024 03:04	WG2376639
Ethylbenzene	ND		0.00500	1	10/06/2024 03:04	WG2376639
Xylenes, Total	ND		0.0100	1	10/06/2024 03:04	WG2376639
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 03:04	WG2376639
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 03:04	WG2376639
(S) Toluene-d8	99.8			75.0-131	10/06/2024 03:04	WG2376639
(S) 4-Bromofluorobenzene	102			67.0-138	10/06/2024 03:04	WG2376639
(S) 1,2-Dichloroethane-d4	120			70.0-130	10/06/2024 03:04	WG2376639

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 13:22	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 13:22	WG2378539
(S) o-Terphenyl	70.8			18.0-148	10/10/2024 13:22	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 00:52	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 00:52	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 00:52	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 00:52	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 00:52	WG2378502
(S) p-Terphenyl-d14	107			23.0-120	10/10/2024 00:52	WG2378502
(S) Nitrobenzene-d5	87.7			14.0-149	10/10/2024 00:52	WG2378502
(S) 2-Fluorobiphenyl	97.0			34.0-125	10/10/2024 00:52	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.206		1	10/06/2024 10:54	WG2376556

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 17:15	WG2374556

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.19	T8	1	10/07/2024 12:40	WG2376926

5
Sr

6
Qc

Sample Narrative:

L1783096-18 WG2376926: 8.19 at 19.3C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	175	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

9
Sc

Sample Narrative:

L1783096-18 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:41	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	3.88		0.200	5	10/06/2024 20:18	WG2375301
Barium	140		0.400	5	10/06/2024 20:18	WG2375301
Cadmium	0.278	J	0.200	5	10/06/2024 20:18	WG2375301
Copper	11.3		0.400	5	10/06/2024 20:18	WG2375301
Lead	9.33		0.200	5	10/06/2024 20:18	WG2375301
Nickel	12.4		0.400	5	10/06/2024 20:18	WG2375301
Selenium	1.15	J	0.260	5	10/06/2024 20:18	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:18	WG2375301
Zinc	47.4		0.740	5	10/06/2024 20:18	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 10:41	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	91.3			77.0-120	10/05/2024 10:41	WG2376381

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/05/2024 16:38	WG2376643
Toluene	ND		0.00500	1	10/05/2024 16:38	WG2376643
Ethylbenzene	ND		0.00500	1	10/05/2024 16:38	WG2376643
Xylenes, Total	ND		0.0100	1	10/05/2024 16:38	WG2376643
1,2,4-Trimethylbenzene	ND		0.00500	1	10/05/2024 16:38	WG2376643
1,3,5-Trimethylbenzene	ND		0.00500	1	10/05/2024 16:38	WG2376643
(S) Toluene-d8	97.9			75.0-131	10/05/2024 16:38	WG2376643
(S) 4-Bromofluorobenzene	100			67.0-138	10/05/2024 16:38	WG2376643
(S) 1,2-Dichloroethane-d4	121			70.0-130	10/05/2024 16:38	WG2376643

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 13:36	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 13:36	WG2378539
(S) o-Terphenyl	55.3			18.0-148	10/10/2024 13:36	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 01:10	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 01:10	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 01:10	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 01:10	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 01:10	WG2378502
(S) p-Terphenyl-d14	115			23.0-120	10/10/2024 01:10	WG2378502
(S) Nitrobenzene-d5	89.4			14.0-149	10/10/2024 01:10	WG2378502
(S) 2-Fluorobiphenyl	105			34.0-125	10/10/2024 01:10	WG2378502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.244		1	10/06/2024 10:55	WG2376556

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 17:21	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.25	T8	1	10/07/2024 12:40	WG2376926

Sample Narrative:
L1783096-19 WG2376926: 8.25 at 19.6C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	182	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

Sample Narrative:
L1783096-19 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:42	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	3.56		0.200	5	10/06/2024 20:21	WG2375301
Barium	135		0.400	5	10/06/2024 20:21	WG2375301
Cadmium	ND		0.200	5	10/06/2024 20:21	WG2375301
Copper	54.2		0.400	5	10/06/2024 20:21	WG2375301
Lead	9.92		0.200	5	10/06/2024 20:21	WG2375301
Nickel	10.7		0.400	5	10/06/2024 20:21	WG2375301
Selenium	0.980	J	0.260	5	10/06/2024 20:21	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:21	WG2375301
Zinc	44.5		0.740	5	10/06/2024 20:21	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 11:00	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120	10/05/2024 11:00	WG2376381

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/05/2024 16:57	WG2376643
Toluene	ND		0.00500	1	10/05/2024 16:57	WG2376643
Ethylbenzene	ND		0.00500	1	10/05/2024 16:57	WG2376643
Xylenes, Total	ND		0.0100	1	10/05/2024 16:57	WG2376643
1,2,4-Trimethylbenzene	ND		0.00500	1	10/05/2024 16:57	WG2376643
1,3,5-Trimethylbenzene	ND		0.00500	1	10/05/2024 16:57	WG2376643
(S) Toluene-d8	98.1			75.0-131	10/05/2024 16:57	WG2376643
(S) 4-Bromofluorobenzene	101			67.0-138	10/05/2024 16:57	WG2376643
(S) 1,2-Dichloroethane-d4	122			70.0-130	10/05/2024 16:57	WG2376643

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:32	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:32	WG2378539
(S) o-Terphenyl	64.6			18.0-148	10/10/2024 14:32	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 01:27	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 01:27	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 01:27	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 01:27	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 01:27	WG2378502
(S) p-Terphenyl-d14	117			23.0-120	10/10/2024 01:27	WG2378502
(S) Nitrobenzene-d5	95.0			14.0-149	10/10/2024 01:27	WG2378502
(S) 2-Fluorobiphenyl	107			34.0-125	10/10/2024 01:27	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.394		1	10/06/2024 09:00	WG2376554

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 17:27	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.25	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:

L1783096-20 WG2376920: 8.25 at 20.1C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	214	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:

L1783096-20 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 09:50	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	3.52		0.200	5	10/06/2024 20:24	WG2375301
Barium	123		0.400	5	10/06/2024 20:24	WG2375301
Cadmium	ND		0.200	5	10/06/2024 20:24	WG2375301
Copper	9.40		0.400	5	10/06/2024 20:24	WG2375301
Lead	8.15		0.200	5	10/06/2024 20:24	WG2375301
Nickel	11.4		0.400	5	10/06/2024 20:24	WG2375301
Selenium	0.933	J	0.260	5	10/06/2024 20:24	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:24	WG2375301
Zinc	77.3		0.740	5	10/06/2024 20:24	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 11:19	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120	10/05/2024 11:19	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/05/2024 17:15	WG2376643
Toluene	ND		0.00500	1	10/05/2024 17:15	WG2376643
Ethylbenzene	ND		0.00500	1	10/05/2024 17:15	WG2376643
Xylenes, Total	ND		0.0100	1	10/05/2024 17:15	WG2376643
1,2,4-Trimethylbenzene	ND		0.00500	1	10/05/2024 17:15	WG2376643
1,3,5-Trimethylbenzene	ND		0.00500	1	10/05/2024 17:15	WG2376643
(S) Toluene-d8	100			75.0-131	10/05/2024 17:15	WG2376643
(S) 4-Bromofluorobenzene	99.5			67.0-138	10/05/2024 17:15	WG2376643
(S) 1,2-Dichloroethane-d4	109			70.0-130	10/05/2024 17:15	WG2376643

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 12:26	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 12:26	WG2378539
(S) o-Terphenyl	50.8			18.0-148	10/10/2024 12:26	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 01:45	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 01:45	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 01:45	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 01:45	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 01:45	WG2378502
(S) p-Terphenyl-d14	104			23.0-120	10/10/2024 01:45	WG2378502
(S) Nitrobenzene-d5	81.1			14.0-149	10/10/2024 01:45	WG2378502
(S) 2-Fluorobiphenyl	94.8			34.0-125	10/10/2024 01:45	WG2378502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	2.18		1	10/06/2024 09:02	WG2376554

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 17:33	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.49	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:
L1783096-21 WG2376920: 8.49 at 20.1C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	384	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:
L1783096-21 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 09:52	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.68		0.200	5	10/06/2024 20:28	WG2375301
Barium	131		0.400	5	10/06/2024 20:28	WG2375301
Cadmium	0.280	J	0.200	5	10/06/2024 20:28	WG2375301
Copper	15.0		0.400	5	10/06/2024 20:28	WG2375301
Lead	11.4		0.200	5	10/06/2024 20:28	WG2375301
Nickel	13.9		0.400	5	10/06/2024 20:28	WG2375301
Selenium	1.04	J	0.260	5	10/06/2024 20:28	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:28	WG2375301
Zinc	51.7		0.740	5	10/06/2024 20:28	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 11:39	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120	10/05/2024 11:39	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/05/2024 17:34	WG2376643
Toluene	ND		0.00500	1	10/05/2024 17:34	WG2376643
Ethylbenzene	ND		0.00500	1	10/05/2024 17:34	WG2376643
Xylenes, Total	ND		0.0100	1	10/05/2024 17:34	WG2376643
1,2,4-Trimethylbenzene	ND		0.00500	1	10/05/2024 17:34	WG2376643
1,3,5-Trimethylbenzene	ND		0.00500	1	10/05/2024 17:34	WG2376643
(S) Toluene-d8	97.2			75.0-131	10/05/2024 17:34	WG2376643
(S) 4-Bromofluorobenzene	99.5			67.0-138	10/05/2024 17:34	WG2376643
(S) 1,2-Dichloroethane-d4	120			70.0-130	10/05/2024 17:34	WG2376643

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 13:08	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 13:08	WG2378539
(S) o-Terphenyl	47.4			18.0-148	10/10/2024 13:08	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 02:03	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:03	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:03	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 02:03	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 02:03	WG2378502
(S) p-Terphenyl-d14	107			23.0-120	10/10/2024 02:03	WG2378502
(S) Nitrobenzene-d5	90.9			14.0-149	10/10/2024 02:03	WG2378502
(S) 2-Fluorobiphenyl	101			34.0-125	10/10/2024 02:03	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	7.09		1	10/06/2024 09:04	WG2376554

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 18:50	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.86	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:

L1783096-22 WG2376920: 8.86 at 20.6C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	565	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:

L1783096-22 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 09:57	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.91		0.200	5	10/06/2024 20:31	WG2375301
Barium	114		0.400	5	10/06/2024 20:31	WG2375301
Cadmium	ND		0.200	5	10/06/2024 20:31	WG2375301
Copper	15.8		0.400	5	10/06/2024 20:31	WG2375301
Lead	13.3		0.200	5	10/06/2024 20:31	WG2375301
Nickel	11.9		0.400	5	10/06/2024 20:31	WG2375301
Selenium	1.21	J	0.260	5	10/06/2024 20:31	WG2375301
Silver	ND		0.0865	5	10/06/2024 20:31	WG2375301
Zinc	53.1		0.740	5	10/06/2024 20:31	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 11:58	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	93.6			77.0-120	10/05/2024 11:58	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/05/2024 17:53	WG2376643
Toluene	ND		0.00500	1	10/05/2024 17:53	WG2376643
Ethylbenzene	ND		0.00500	1	10/05/2024 17:53	WG2376643
Xylenes, Total	ND		0.0100	1	10/05/2024 17:53	WG2376643
1,2,4-Trimethylbenzene	ND		0.00500	1	10/05/2024 17:53	WG2376643
1,3,5-Trimethylbenzene	ND		0.00500	1	10/05/2024 17:53	WG2376643
(S) Toluene-d8	98.1			75.0-131	10/05/2024 17:53	WG2376643
(S) 4-Bromofluorobenzene	98.8			67.0-138	10/05/2024 17:53	WG2376643
(S) 1,2-Dichloroethane-d4	119			70.0-130	10/05/2024 17:53	WG2376643

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 13:50	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 13:50	WG2378539
(S) o-Terphenyl	43.0			18.0-148	10/10/2024 13:50	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 02:20	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:20	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:20	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 02:20	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 02:20	WG2378502
(S) p-Terphenyl-d14	103			23.0-120	10/10/2024 02:20	WG2378502
(S) Nitrobenzene-d5	97.6			14.0-149	10/10/2024 02:20	WG2378502
(S) 2-Fluorobiphenyl	96.7			34.0-125	10/10/2024 02:20	WG2378502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	5.40		1	10/06/2024 09:05	WG2376554

1
Cp

2
Tc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 18:59	WG2374556

3
Ss

4
Cn

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.49	T8	1	10/07/2024 11:25	WG2376920

5
Sr

6
Qc

Sample Narrative:

L1783096-23 WG2376920: 8.49 at 20.1C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	627	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

9
Sc

Sample Narrative:

L1783096-23 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 09:58	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	3.95		0.200	5	10/06/2024 20:34	WG2375301
Barium	152		0.400	5	10/06/2024 20:34	WG2375301
Cadmium	ND		0.200	5	10/06/2024 20:34	WG2375301
Copper	12.1		0.400	5	10/06/2024 20:34	WG2375301
Lead	9.40		0.200	5	10/06/2024 20:34	WG2375301
Nickel	13.0		0.400	5	10/06/2024 20:34	WG2375301
Selenium	0.880	J	0.260	5	10/06/2024 20:34	WG2375301
Silver	0.0959	J	0.0865	5	10/06/2024 20:34	WG2375301
Zinc	44.6		0.740	5	10/06/2024 20:34	WG2375301

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 12:18	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120	10/05/2024 12:18	WG2376381

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/05/2024 18:12	WG2376643
Toluene	ND		0.00500	1	10/05/2024 18:12	WG2376643
Ethylbenzene	ND		0.00500	1	10/05/2024 18:12	WG2376643
Xylenes, Total	ND		0.0100	1	10/05/2024 18:12	WG2376643
1,2,4-Trimethylbenzene	ND		0.00500	1	10/05/2024 18:12	WG2376643
1,3,5-Trimethylbenzene	ND		0.00500	1	10/05/2024 18:12	WG2376643
(S) Toluene-d8	100			75.0-131	10/05/2024 18:12	WG2376643
(S) 4-Bromofluorobenzene	99.1			67.0-138	10/05/2024 18:12	WG2376643
(S) 1,2-Dichloroethane-d4	110			70.0-130	10/05/2024 18:12	WG2376643

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 15:29	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 15:29	WG2378539
(S) o-Terphenyl	49.7			18.0-148	10/10/2024 15:29	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 02:38	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:38	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:38	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 02:38	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 02:38	WG2378502
(S) p-Terphenyl-d14	101			23.0-120	10/10/2024 02:38	WG2378502
(S) Nitrobenzene-d5	96.7			14.0-149	10/10/2024 02:38	WG2378502
(S) 2-Fluorobiphenyl	102			34.0-125	10/10/2024 02:38	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	9.42		1	10/06/2024 10:57	WG2376556

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 19:05	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	9.08	T8	1	10/07/2024 12:40	WG2376926

Sample Narrative:

L1783096-24 WG2376926: 9.08 at 19.4C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	789	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

Sample Narrative:

L1783096-24 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:44	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	2.58		0.200	5	10/08/2024 12:20	WG2375388
Barium	85.9		0.400	5	10/08/2024 12:20	WG2375388
Cadmium	ND		0.200	5	10/08/2024 12:20	WG2375388
Copper	10.9		0.400	5	10/08/2024 12:20	WG2375388
Lead	12.4		0.200	5	10/08/2024 12:20	WG2375388
Nickel	12.2		0.400	5	10/08/2024 12:20	WG2375388
Selenium	0.620	J	0.260	5	10/08/2024 12:20	WG2375388
Silver	ND		0.0865	5	10/08/2024 12:20	WG2375388
Zinc	58.4		0.740	5	10/08/2024 12:20	WG2375388

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 12:37	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	93.4			77.0-120	10/05/2024 12:37	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 21:41	WG2376909
Toluene	ND		0.00500	1	10/06/2024 21:41	WG2376909
Ethylbenzene	ND		0.00500	1	10/06/2024 21:41	WG2376909
Xylenes, Total	ND		0.0100	1	10/06/2024 21:41	WG2376909
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 21:41	WG2376909
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 21:41	WG2376909
(S) Toluene-d8	95.1			75.0-131	10/06/2024 21:41	WG2376909
(S) 4-Bromofluorobenzene	103			67.0-138	10/06/2024 21:41	WG2376909
(S) 1,2-Dichloroethane-d4	97.2			70.0-130	10/06/2024 21:41	WG2376909

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 12:40	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 12:40	WG2378539
(S) o-Terphenyl	51.5			18.0-148	10/10/2024 12:40	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 02:56	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:56	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 02:56	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 02:56	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 02:56	WG2378502
(S) p-Terphenyl-d14	112			23.0-120	10/10/2024 02:56	WG2378502
(S) Nitrobenzene-d5	97.9			14.0-149	10/10/2024 02:56	WG2378502
(S) 2-Fluorobiphenyl	105			34.0-125	10/10/2024 02:56	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	8.07		1	10/06/2024 09:07	WG2376554

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 19:11	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.75	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:
L1783096-25 WG2376920: 8.75 at 20.1C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	652	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:
L1783096-25 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 10:00	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.36		0.200	5	10/08/2024 12:37	WG2375388
Barium	118		0.400	5	10/08/2024 12:37	WG2375388
Cadmium	0.203	J	0.200	5	10/08/2024 12:37	WG2375388
Copper	9.94		0.400	5	10/08/2024 12:37	WG2375388
Lead	8.49		0.200	5	10/08/2024 12:37	WG2375388
Nickel	11.2		0.400	5	10/08/2024 12:37	WG2375388
Selenium	0.732	J	0.260	5	10/08/2024 12:37	WG2375388
Silver	ND		0.0865	5	10/08/2024 12:37	WG2375388
Zinc	42.6		0.740	5	10/08/2024 12:37	WG2375388

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 12:57	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	90.9			77.0-120	10/05/2024 12:57	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 22:00	WG2376909
Toluene	ND		0.00500	1	10/06/2024 22:00	WG2376909
Ethylbenzene	ND		0.00500	1	10/06/2024 22:00	WG2376909
Xylenes, Total	ND		0.0100	1	10/06/2024 22:00	WG2376909
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:00	WG2376909
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:00	WG2376909
(S) Toluene-d8	94.1			75.0-131	10/06/2024 22:00	WG2376909
(S) 4-Bromofluorobenzene	103			67.0-138	10/06/2024 22:00	WG2376909
(S) 1,2-Dichloroethane-d4	101			70.0-130	10/06/2024 22:00	WG2376909

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 10:34	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 10:34	WG2378539
(S) o-Terphenyl	61.7			18.0-148	10/10/2024 10:34	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 03:13	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 03:13	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 03:13	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 03:13	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 03:13	WG2378502
(S) p-Terphenyl-d14	116			23.0-120	10/10/2024 03:13	WG2378502
(S) Nitrobenzene-d5	102			14.0-149	10/10/2024 03:13	WG2378502
(S) 2-Fluorobiphenyl	110			34.0-125	10/10/2024 03:13	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	7.32		1	10/06/2024 09:09	WG2376554

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 19:17	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.78	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:
L1783096-26 WG2376920: 8.78 at 20.3C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	538	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:
L1783096-26 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 10:02	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.88		0.200	5	10/08/2024 12:40	WG2375388
Barium	113		0.400	5	10/08/2024 12:40	WG2375388
Cadmium	0.258	J	0.200	5	10/08/2024 12:40	WG2375388
Copper	10.9		0.400	5	10/08/2024 12:40	WG2375388
Lead	9.30		0.200	5	10/08/2024 12:40	WG2375388
Nickel	12.8		0.400	5	10/08/2024 12:40	WG2375388
Selenium	0.744	J	0.260	5	10/08/2024 12:40	WG2375388
Silver	ND		0.0865	5	10/08/2024 12:40	WG2375388
Zinc	46.6		0.740	5	10/08/2024 12:40	WG2375388

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 13:16	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120	10/05/2024 13:16	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 22:19	WG2376909
Toluene	ND		0.00500	1	10/06/2024 22:19	WG2376909
Ethylbenzene	ND		0.00500	1	10/06/2024 22:19	WG2376909
Xylenes, Total	ND		0.0100	1	10/06/2024 22:19	WG2376909
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:19	WG2376909
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:19	WG2376909
(S) Toluene-d8	93.9			75.0-131	10/06/2024 22:19	WG2376909
(S) 4-Bromofluorobenzene	101			67.0-138	10/06/2024 22:19	WG2376909
(S) 1,2-Dichloroethane-d4	97.0			70.0-130	10/06/2024 22:19	WG2376909

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 10:48	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 10:48	WG2378539
(S) o-Terphenyl	68.1			18.0-148	10/10/2024 10:48	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Anthracene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Benzo(a)anthracene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Benzo(b)fluoranthene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Benzo(k)fluoranthene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Benzo(a)pyrene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Chrysene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Dibenz(a,h)anthracene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Fluoranthene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Fluorene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/10/2024 03:31	WG2378502
1-Methylnaphthalene	ND		0.00500	1	10/10/2024 03:31	WG2378502
2-Methylnaphthalene	ND		0.00500	1	10/10/2024 03:31	WG2378502
Naphthalene	ND		0.00408	1	10/10/2024 03:31	WG2378502
Pyrene	ND		0.00500	1	10/10/2024 03:31	WG2378502
(S) p-Terphenyl-d14	110			23.0-120	10/10/2024 03:31	WG2378502
(S) Nitrobenzene-d5	97.1			14.0-149	10/10/2024 03:31	WG2378502
(S) 2-Fluorobiphenyl	110			34.0-125	10/10/2024 03:31	WG2378502

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	2.98		1	10/11/2024 16:42	WG2379579

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 19:24	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	9.55	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:

L1783096-27 WG2376920: 9.55 at 20.3C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	734	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:

L1783096-27 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 10:03	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.82		0.200	5	10/08/2024 12:43	WG2375388
Barium	124		0.400	5	10/08/2024 12:43	WG2375388
Cadmium	0.374	J	0.200	5	10/08/2024 12:43	WG2375388
Copper	13.2		0.400	5	10/08/2024 12:43	WG2375388
Lead	9.65		0.200	5	10/08/2024 12:43	WG2375388
Nickel	13.3		0.400	5	10/08/2024 12:43	WG2375388
Selenium	1.41	J	0.260	5	10/08/2024 12:43	WG2375388
Silver	ND		0.0865	5	10/08/2024 12:43	WG2375388
Zinc	51.6		0.740	5	10/08/2024 12:43	WG2375388

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 13:36	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	92.2			77.0-120	10/05/2024 13:36	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 22:38	WG2376909
Toluene	ND		0.00500	1	10/06/2024 22:38	WG2376909
Ethylbenzene	ND		0.00500	1	10/06/2024 22:38	WG2376909
Xylenes, Total	ND		0.0100	1	10/06/2024 22:38	WG2376909
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:38	WG2376909
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:38	WG2376909
(S) Toluene-d8	95.1			75.0-131	10/06/2024 22:38	WG2376909
(S) 4-Bromofluorobenzene	100			67.0-138	10/06/2024 22:38	WG2376909
(S) 1,2-Dichloroethane-d4	92.1			70.0-130	10/06/2024 22:38	WG2376909

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 11:44	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 11:44	WG2378539
(S) o-Terphenyl	48.0			18.0-148	10/10/2024 11:44	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Anthracene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Chrysene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Fluoranthene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Fluorene	ND		0.00500	1	10/09/2024 22:44	WG2378503
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 22:44	WG2378503
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 22:44	WG2378503
2-Methylnaphthalene	0.0129	U	0.00500	1	10/09/2024 22:44	WG2378503
Naphthalene	0.00910	U	0.00408	1	10/09/2024 22:44	WG2378503
Pyrene	ND		0.00500	1	10/09/2024 22:44	WG2378503
(S) p-Terphenyl-d14	84.7			23.0-120	10/09/2024 22:44	WG2378503
(S) Nitrobenzene-d5	98.9			14.0-149	10/09/2024 22:44	WG2378503
(S) 2-Fluorobiphenyl	85.5			34.0-125	10/09/2024 22:44	WG2378503

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	7.16		1	10/06/2024 09:10	WG2376554

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 19:30	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.69	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:
L1783096-28 WG2376920: 8.69 at 19.9C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	631	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:
L1783096-28 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 10:05	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.70		0.200	5	10/08/2024 12:53	WG2375388
Barium	170		0.400	5	10/08/2024 12:53	WG2375388
Cadmium	ND		0.200	5	10/08/2024 12:53	WG2375388
Copper	12.0		0.400	5	10/08/2024 12:53	WG2375388
Lead	9.66		0.200	5	10/08/2024 12:53	WG2375388
Nickel	11.9		0.400	5	10/08/2024 12:53	WG2375388
Selenium	0.640	J	0.260	5	10/08/2024 12:53	WG2375388
Silver	ND		0.0865	5	10/08/2024 12:53	WG2375388
Zinc	42.7		0.740	5	10/08/2024 12:53	WG2375388

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 13:55	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	92.0			77.0-120	10/05/2024 13:55	WG2376381

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 22:57	WG2376909
Toluene	ND		0.00500	1	10/06/2024 22:57	WG2376909
Ethylbenzene	ND		0.00500	1	10/06/2024 22:57	WG2376909
Xylenes, Total	ND		0.0100	1	10/06/2024 22:57	WG2376909
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:57	WG2376909
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 22:57	WG2376909
(S) Toluene-d8	93.1			75.0-131	10/06/2024 22:57	WG2376909
(S) 4-Bromofluorobenzene	99.7			67.0-138	10/06/2024 22:57	WG2376909
(S) 1,2-Dichloroethane-d4	96.4			70.0-130	10/06/2024 22:57	WG2376909

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 12:54	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 12:54	WG2378539
(S) o-Terphenyl	55.5			18.0-148	10/10/2024 12:54	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Anthracene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Chrysene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Fluoranthene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Fluorene	ND		0.00500	1	10/09/2024 23:01	WG2378503
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 23:01	WG2378503
1-Methylnaphthalene	0.00614	U	0.00500	1	10/09/2024 23:01	WG2378503
2-Methylnaphthalene	0.0130	U	0.00500	1	10/09/2024 23:01	WG2378503
Naphthalene	0.00581	U	0.00408	1	10/09/2024 23:01	WG2378503
Pyrene	ND		0.00500	1	10/09/2024 23:01	WG2378503
(S) p-Terphenyl-d14	95.3			23.0-120	10/09/2024 23:01	WG2378503
(S) Nitrobenzene-d5	104			14.0-149	10/09/2024 23:01	WG2378503
(S) 2-Fluorobiphenyl	87.4			34.0-125	10/09/2024 23:01	WG2378503

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	4.85		1	10/06/2024 09:12	WG2376554

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/07/2024 21:51	WG2374556

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.51	T8	1	10/07/2024 11:25	WG2376920

Sample Narrative:
L1783096-29 WG2376920: 8.51 at 19.5C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	537	umhos/cm		10.0	1	10/07/2024 16:05	WG2376919

Sample Narrative:
L1783096-29 WG2376919: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 10:07	WG2376558

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	7.09		0.200	5	10/08/2024 12:57	WG2375388
Barium	147		0.400	5	10/08/2024 12:57	WG2375388
Cadmium	ND		0.200	5	10/08/2024 12:57	WG2375388
Copper	17.0		0.400	5	10/08/2024 12:57	WG2375388
Lead	12.6		0.200	5	10/08/2024 12:57	WG2375388
Nickel	13.7		0.400	5	10/08/2024 12:57	WG2375388
Selenium	0.981	J	0.260	5	10/08/2024 12:57	WG2375388
Silver	ND		0.0865	5	10/08/2024 12:57	WG2375388
Zinc	51.1		0.740	5	10/08/2024 12:57	WG2375388

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 14:14	WG2376381
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120	10/05/2024 14:14	WG2376381

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 23:16	WG2376909
Toluene	ND		0.00500	1	10/06/2024 23:16	WG2376909
Ethylbenzene	ND		0.00500	1	10/06/2024 23:16	WG2376909
Xylenes, Total	ND		0.0100	1	10/06/2024 23:16	WG2376909
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 23:16	WG2376909
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 23:16	WG2376909
(S) Toluene-d8	94.9			75.0-131	10/06/2024 23:16	WG2376909
(S) 4-Bromofluorobenzene	101			67.0-138	10/06/2024 23:16	WG2376909
(S) 1,2-Dichloroethane-d4	97.5			70.0-130	10/06/2024 23:16	WG2376909

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:47	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:47	WG2378539
(S) o-Terphenyl	46.4			18.0-148	10/10/2024 14:47	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Anthracene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Chrysene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Fluoranthene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Fluorene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 23:18	WG2378503
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 23:18	WG2378503
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 23:18	WG2378503
Naphthalene	ND		0.00408	1	10/09/2024 23:18	WG2378503
Pyrene	ND		0.00500	1	10/09/2024 23:18	WG2378503
(S) p-Terphenyl-d14	95.8			23.0-120	10/09/2024 23:18	WG2378503
(S) Nitrobenzene-d5	104			14.0-149	10/09/2024 23:18	WG2378503
(S) 2-Fluorobiphenyl	90.4			34.0-125	10/09/2024 23:18	WG2378503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	9.97		1	10/06/2024 10:59	WG2376556

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 01:38	WG2374558

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.93	T8	1	10/07/2024 12:40	WG2376926

Sample Narrative:

L1783096-30 WG2376926: 8.93 at 19.5C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	686	umhos/cm		10.0	1	10/07/2024 16:55	WG2376928

Sample Narrative:

L1783096-30 WG2376928: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 08:45	WG2376559

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.39		0.200	5	10/08/2024 19:42	WG2375382
Barium	106		0.400	5	10/08/2024 19:42	WG2375382
Cadmium	ND		0.200	5	10/08/2024 19:42	WG2375382
Copper	13.4		0.400	5	10/08/2024 19:42	WG2375382
Lead	9.31		0.200	5	10/08/2024 19:42	WG2375382
Nickel	12.9		0.400	5	10/08/2024 19:42	WG2375382
Selenium	0.439	J	0.260	5	10/08/2024 19:42	WG2375382
Silver	ND		0.0865	5	10/08/2024 19:42	WG2375382
Zinc	48.8		0.740	5	10/08/2024 19:42	WG2375382

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
TPH (GC/FID) Low Fraction	ND		0.500	1	10/05/2024 20:42	WG2376695
(S) a,a,a-Trifluorotoluene(FID)	77.0			77.0-120	10/05/2024 20:42	WG2376695

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	10/06/2024 23:35	WG2376909
Toluene	ND		0.00500	1	10/06/2024 23:35	WG2376909
Ethylbenzene	ND		0.00500	1	10/06/2024 23:35	WG2376909
Xylenes, Total	ND		0.0100	1	10/06/2024 23:35	WG2376909
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2024 23:35	WG2376909
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2024 23:35	WG2376909
(S) Toluene-d8	94.3			75.0-131	10/06/2024 23:35	WG2376909
(S) 4-Bromofluorobenzene	100			67.0-138	10/06/2024 23:35	WG2376909
(S) 1,2-Dichloroethane-d4	94.4			70.0-130	10/06/2024 23:35	WG2376909

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	10/10/2024 14:04	WG2378539
C28-C36 Motor Oil Range	ND		50.0	1	10/10/2024 14:04	WG2378539
(S) o-Terphenyl	46.9			18.0-148	10/10/2024 14:04	WG2378539

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Anthracene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Benzo(a)anthracene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Benzo(b)fluoranthene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Benzo(k)fluoranthene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Benzo(a)pyrene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Chrysene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Dibenz(a,h)anthracene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Fluoranthene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Fluorene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	10/09/2024 23:36	WG2378503
1-Methylnaphthalene	ND		0.00500	1	10/09/2024 23:36	WG2378503
2-Methylnaphthalene	ND		0.00500	1	10/09/2024 23:36	WG2378503
Naphthalene	ND		0.00408	1	10/09/2024 23:36	WG2378503
Pyrene	ND		0.00500	1	10/09/2024 23:36	WG2378503
(S) p-Terphenyl-d14	77.4			23.0-120	10/09/2024 23:36	WG2378503
(S) Nitrobenzene-d5	90.7			14.0-149	10/09/2024 23:36	WG2378503
(S) 2-Fluorobiphenyl	74.6			34.0-125	10/09/2024 23:36	WG2378503

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.0760		1	10/07/2024 16:35	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 01:45	WG2374558

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	7.92	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-31 WG2377296: 7.92 at 20C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	297	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-31 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:46	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	6.31		0.200	5	10/08/2024 19:54	WG2375382
Barium	139		0.400	5	10/08/2024 19:54	WG2375382
Cadmium	0.230	J	0.200	5	10/08/2024 19:54	WG2375382
Copper	14.0		0.400	5	10/08/2024 19:54	WG2375382
Lead	12.7		0.200	5	10/08/2024 19:54	WG2375382
Nickel	16.5		0.400	5	10/08/2024 19:54	WG2375382
Selenium	0.704	J	0.260	5	10/08/2024 19:54	WG2375382
Silver	ND		0.0865	5	10/08/2024 19:54	WG2375382
Zinc	54.5		0.740	5	10/08/2024 19:54	WG2375382

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	1.33		1	10/07/2024 16:36	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 02:28	WG2374558

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.43	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-32 WG2377296: 8.43 at 20C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	302	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-32 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:48	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.33		0.200	5	10/08/2024 19:57	WG2375382
Barium	155		0.400	5	10/08/2024 19:57	WG2375382
Cadmium	ND		0.200	5	10/08/2024 19:57	WG2375382
Copper	14.7		0.400	5	10/08/2024 19:57	WG2375382
Lead	11.2		0.200	5	10/08/2024 19:57	WG2375382
Nickel	17.4		0.400	5	10/08/2024 19:57	WG2375382
Selenium	0.659	J	0.260	5	10/08/2024 19:57	WG2375382
Silver	ND		0.0865	5	10/08/2024 19:57	WG2375382
Zinc	60.4		0.740	5	10/08/2024 19:57	WG2375382

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	5.53		1	10/07/2024 16:38	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 02:34	WG2374558

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.95	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-33 WG2377296: 8.95 at 19.9C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	511	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-33 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:53	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.65		0.200	5	10/08/2024 20:00	WG2375382
Barium	139		0.400	5	10/08/2024 20:00	WG2375382
Cadmium	ND		0.200	5	10/08/2024 20:00	WG2375382
Copper	12.2		0.400	5	10/08/2024 20:00	WG2375382
Lead	9.89		0.200	5	10/08/2024 20:00	WG2375382
Nickel	15.2		0.400	5	10/08/2024 20:00	WG2375382
Selenium	0.637	J	0.260	5	10/08/2024 20:00	WG2375382
Silver	ND		0.0865	5	10/08/2024 20:00	WG2375382
Zinc	48.2		0.740	5	10/08/2024 20:00	WG2375382

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.0716		1	10/07/2024 16:40	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 02:40	WG2374558

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	7.96	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-34 WG2377296: 7.96 at 20C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	243	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-34 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:55	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.83		0.200	5	10/08/2024 20:03	WG2375382
Barium	139		0.400	5	10/08/2024 20:03	WG2375382
Cadmium	ND		0.200	5	10/08/2024 20:03	WG2375382
Copper	12.2		0.400	5	10/08/2024 20:03	WG2375382
Lead	10.5		0.200	5	10/08/2024 20:03	WG2375382
Nickel	15.4		0.400	5	10/08/2024 20:03	WG2375382
Selenium	0.670	J	0.260	5	10/08/2024 20:03	WG2375382
Silver	ND		0.0865	5	10/08/2024 20:03	WG2375382
Zinc	48.8		0.740	5	10/08/2024 20:03	WG2375382

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	1.49		1	10/05/2024 14:27	WG2375748

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 02:46	WG2374558

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.52	T8	1	10/05/2024 19:00	WG2376705

Sample Narrative:
L1783096-35 WG2376705: 8.52 at 21.7C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	326	umhos/cm		10.0	1	10/05/2024 21:30	WG2376709

Sample Narrative:
L1783096-35 WG2376709: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/08/2024 17:58	WG2375800

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	4.69		0.200	5	10/08/2024 20:06	WG2375382
Barium	149		0.400	5	10/08/2024 20:06	WG2375382
Cadmium	ND		0.200	5	10/08/2024 20:06	WG2375382
Copper	13.1		0.400	5	10/08/2024 20:06	WG2375382
Lead	10.1		0.200	5	10/08/2024 20:06	WG2375382
Nickel	15.7		0.400	5	10/08/2024 20:06	WG2375382
Selenium	0.647	J	0.260	5	10/08/2024 20:06	WG2375382
Silver	ND		0.0865	5	10/08/2024 20:06	WG2375382
Zinc	50.0		0.740	5	10/08/2024 20:06	WG2375382

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	5.80		1	10/07/2024 16:45	WG2375792

Wet Chemistry by Method 7199

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Hexavalent Chromium	ND		0.300	1	10/09/2024 02:53	WG2374558

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.99	T8	1	10/08/2024 11:30	WG2377296

Sample Narrative:
L1783096-36 WG2377296: 8.99 at 20C

Wet Chemistry by Method 9050AMod

	Result	Units	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte				umhos/cm			
Specific Conductance	467	umhos/cm		10.0	1	10/07/2024 17:25	WG2377298

Sample Narrative:
L1783096-36 WG2377298: at 25C

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

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Hot Water Sol. Boron	ND		2.00	1	10/06/2024 00:57	WG2375802

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg			
Arsenic	5.23		0.200	5	10/08/2024 20:09	WG2375382
Barium	154		0.400	5	10/08/2024 20:09	WG2375382
Cadmium	ND		0.200	5	10/08/2024 20:09	WG2375382
Copper	16.3		0.400	5	10/08/2024 20:09	WG2375382
Lead	11.5		0.200	5	10/08/2024 20:09	WG2375382
Nickel	17.6		0.400	5	10/08/2024 20:09	WG2375382
Selenium	0.656	J	0.260	5	10/08/2024 20:09	WG2375382
Silver	ND		0.0865	5	10/08/2024 20:09	WG2375382
Zinc	58.8		0.740	5	10/08/2024 20:09	WG2375382

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129662-1 10/07/24 13:50

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

L1783088-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1783088-07 10/07/24 14:05 • (DUP) R4129662-3 10/07/24 14:11

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

L1783088-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1783088-10 10/07/24 23:43 • (DUP) R4129662-9 10/07/24 23:51

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

Laboratory Control Sample (LCS)

(LCS) R4129662-2 10/07/24 13:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.78	97.8	80.0-120	

L1783096-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-17 10/07/24 16:44 • (MS) R4129662-5 10/07/24 16:50 • (MSD) R4129662-6 10/07/24 16:56

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	13.9	13.4	69.6	67.0	1	75.0-125	J6	J6	3.81	20

L1783096-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L1783096-17 10/07/24 16:44 • (MS) R4129662-7 10/07/24 17:02

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	633	ND	451	71.3	50	75.0-125	J6

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4130229-1 10/09/24 01:05

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

L1783698-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1783698-03 10/09/24 03:11 • (DUP) R4130229-7 10/09/24 03:17

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

L1783698-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1783698-07 10/09/24 03:55 • (DUP) R4130229-8 10/09/24 04:01

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

Laboratory Control Sample (LCS)

(LCS) R4130229-2 10/09/24 01:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.2	102	80.0-120	

L1783096-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-31 10/09/24 01:45 • (MS) R4130229-3 10/09/24 01:51 • (MSD) R4130229-4 10/09/24 01:57

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	17.4	16.7	86.9	83.3	1	75.0-125			4.19	20

L1783096-31 Original Sample (OS) • Matrix Spike (MS)

(OS) L1783096-31 10/09/24 01:45 • (MS) R4130229-5 10/09/24 02:03

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	641	ND	577	90.0	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4130236-1 10/09/24 02:06

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

L1783096-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-03 10/09/24 05:09 • (DUP) R4130236-3 10/09/24 05:18

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

L1783096-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-07 10/09/24 05:53 • (DUP) R4130236-4 10/09/24 06:02

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

Laboratory Control Sample (LCS)

(LCS) R4130236-2 10/09/24 02:15

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.70	97.0	80.0-120	

L1783096-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-09 10/09/24 06:20 • (MS) R4130236-6 10/09/24 06:56 • (MSD) R4130236-7 10/09/24 07:05

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	19.6	19.8	97.8	99.0	1	75.0-125			1.12	20

L1783096-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1783096-09 10/09/24 06:20 • (MS) R4130236-8 10/09/24 07:14

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	651	ND	597	91.7	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1783096-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-35 10/05/24 19:00 • (DUP) R4128966-2 10/05/24 19:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.52	8.49	1	0.353		1

Sample Narrative:

OS: 8.52 at 21.7C

DUP: 8.49 at 21.6C

L1783884-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1783884-01 10/05/24 19:00 • (DUP) R4128966-3 10/05/24 19:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.79	8.80	1	0.114		1

Sample Narrative:

OS: 8.79 at 21.3C

DUP: 8.8 at 21.2C

Laboratory Control Sample (LCS)

(LCS) R4128966-1 10/05/24 19:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.96	99.6	99.0-101	

Sample Narrative:

LCS: 9.96 at 21.1C



L1783096-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-21 10/07/24 11:25 • (DUP) R4129453-2 10/07/24 11:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.49	8.49	1	0.000		1

Sample Narrative:

OS: 8.49 at 20.1C

DUP: 8.49 at 20.1C

L1783850-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1783850-08 10/07/24 11:25 • (DUP) R4129453-3 10/07/24 11:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.32	8.28	1	0.482		1

Sample Narrative:

OS: 8.32 at 19.3C

DUP: 8.28 at 19.7C

Laboratory Control Sample (LCS)

(LCS) R4129453-1 10/07/24 11:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.01 at 20.1C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1783088-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1783088-08 10/07/24 12:40 • (DUP) R4129457-2 10/07/24 12:40

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.34	8.30	1	0.481		1

Sample Narrative:

OS: 8.34 at 20.1C

DUP: 8.3 at 20.2C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1783876-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1783876-02 10/07/24 12:40 • (DUP) R4129457-3 10/07/24 12:40

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.73	8.71	1	0.229		1

Sample Narrative:

OS: 8.73 at 19.7C

DUP: 8.71 at 19.9C

Laboratory Control Sample (LCS)

(LCS) R4129457-1 10/07/24 12:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 19.3C

L1783096-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-05 10/08/24 11:30 • (DUP) R4129851-2 10/08/24 11:30

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.72	7.76	1	0.517		1

Sample Narrative:

OS: 7.72 at 20.4C

DUP: 7.76 at 20.5C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1783884-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1783884-02 10/08/24 11:30 • (DUP) R4129851-3 10/08/24 11:30

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.39	8.35	1	0.478		1

Sample Narrative:

OS: 8.39 at 19.4C

DUP: 8.35 at 19.7C

Laboratory Control Sample (LCS)

(LCS) R4129851-1 10/08/24 11:30

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.02 at 20.3C

Method Blank (MB)

(MB) R4128977-1 10/05/24 21:30

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

Sample Narrative:

BLANK: at 25C

L1783096-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-35 10/05/24 21:30 • (DUP) R4128977-3 10/05/24 21:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	326	324	1	0.615		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1783879-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1783879-01 10/05/24 21:30 • (DUP) R4128977-4 10/05/24 21:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1760	1760	1	0.398		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4128977-2 10/05/24 21:30

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	737	101	85.0-115	

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129583-1 10/07/24 16:05

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

Sample Narrative:

BLANK: at 25C

L1783096-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-20 10/07/24 16:05 • (DUP) R4129583-3 10/07/24 16:05

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	214	213	1	0.234		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1783868-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1783868-01 10/07/24 16:05 • (DUP) R4129583-4 10/07/24 16:05

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1670	1640	1	1.51		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4129583-2 10/07/24 16:05

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	750	102	85.0-115	

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129591-1 10/07/24 16:55

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

Sample Narrative:

BLANK: at 25C

L1783096-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-01 10/07/24 16:55 • (DUP) R4129591-3 10/07/24 16:55

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	363	361	1	0.552		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1783868-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1783868-02 10/07/24 16:55 • (DUP) R4129591-4 10/07/24 16:55

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	962	956	1	0.626		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4129591-2 10/07/24 16:55

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	731	99.7	85.0-115	

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129592-1 10/07/24 17:25

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

Sample Narrative:

BLANK: at 25C

L1783096-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1783096-06 10/07/24 17:25 • (DUP) R4129592-3 10/07/24 17:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	240	236	1	1.64		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1783879-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1783879-03 10/07/24 17:25 • (DUP) R4129592-4 10/07/24 17:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	640	640	1	0.000		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4129592-2 10/07/24 17:25

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	736	100	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4130160-1 10/08/24 17:53

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

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

(LCS) R4130160-2 10/08/24 17:54 • (LCSD) R4130160-3 10/08/24 17:56

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	1.01	1.04	101	104	80.0-120			3.15	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129016-1 10/06/24 00:31

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

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

(LCS) R4129016-2 10/06/24 00:33 • (LCSD) R4129016-3 10/06/24 00:35

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	0.990	0.995	99.0	99.5	80.0-120			0.526	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4129085-1 10/06/24 09:37

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

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

(LCS) R4129085-2 10/06/24 09:39 • (LCSD) R4129085-3 10/06/24 09:40

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	0.979	100	97.9	80.0-120			2.46	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4129083-1 10/06/24 08:13

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	ND		0.0167	0.200

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

(LCS) R4129083-2 10/06/24 08:14 • (LCSD) R4129083-3 10/06/24 08:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.07	1.05	107	105	80.0-120			1.22	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4129133-1 10/06/24 17:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	1.00
Barium	ND		0.152	2.50
Cadmium	ND		0.0855	1.00
Copper	ND		0.133	5.00
Lead	ND		0.0990	2.00
Nickel	ND		0.197	2.50
Selenium	ND		0.180	2.50
Silver	ND		0.0865	0.500
Zinc	ND		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R4129133-2 10/06/24 17:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	102	102	80.0-120	
Barium	100	96.9	96.9	80.0-120	
Cadmium	100	110	110	80.0-120	
Copper	100	104	104	80.0-120	
Lead	100	100	100	80.0-120	
Nickel	100	108	108	80.0-120	
Selenium	100	102	102	80.0-120	
Silver	20.0	20.4	102	80.0-120	
Zinc	100	102	102	80.0-120	

L1783096-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-02 10/06/24 17:08 • (MS) R4129133-5 10/06/24 17:18 • (MSD) R4129133-6 10/06/24 17:21

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 %
Arsenic	100	5.22	98.8	108	93.6	102	5	75.0-125			8.42	20
Barium	100	147	227	252	80.1	105	5	75.0-125			10.4	20
Cadmium	100	ND	98.7	111	98.5	110	5	75.0-125			11.3	20
Copper	100	12.9	103	115	90.3	102	5	75.0-125			10.8	20
Lead	100	11.2	99.8	112	88.6	101	5	75.0-125			11.6	20
Nickel	100	16.2	110	123	93.9	107	5	75.0-125			11.2	20
Selenium	100	1.32	94.5	102	93.2	101	5	75.0-125		E	7.73	20
Silver	20.0	ND	18.5	20.7	92.3	104	5	75.0-125			11.6	20
Zinc	100	51.0	143	154	92.3	103	5	75.0-125			6.91	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4129141-1 10/06/24 18:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	1.00
Barium	ND		0.152	2.50
Cadmium	ND		0.0855	1.00
Copper	ND		0.133	5.00
Lead	ND		0.0990	2.00
Nickel	ND		0.197	2.50
Selenium	ND		0.180	2.50
Silver	ND		0.0865	0.500
Zinc	ND		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R4129141-2 10/06/24 19:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	92.1	92.1	80.0-120	
Barium	100	84.6	84.6	80.0-120	
Cadmium	100	97.6	97.6	80.0-120	
Copper	100	90.0	90.0	80.0-120	
Lead	100	88.9	88.9	80.0-120	
Nickel	100	96.4	96.4	80.0-120	
Selenium	100	91.2	91.2	80.0-120	
Silver	20.0	18.2	91.2	80.0-120	
Zinc	100	91.0	91.0	80.0-120	

L1783077-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783077-14 10/06/24 19:03 • (MS) R4129141-5 10/06/24 19:13 • (MSD) R4129141-6 10/06/24 19:17

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	5.42	97.8	103	92.4	97.4	5	75.0-125			4.94	20
Barium	100	125	226	229	101	104	5	75.0-125			1.17	20
Cadmium	100	ND	98.6	102	98.5	102	5	75.0-125			3.08	20
Copper	100	11.0	101	105	89.5	94.3	5	75.0-125			4.67	20
Lead	100	9.13	98.6	103	89.4	94.3	5	75.0-125			4.85	20
Nickel	100	13.8	108	112	93.8	98.5	5	75.0-125			4.35	20
Selenium	100	0.770	95.3	99.7	94.5	98.9	5	75.0-125			4.48	20
Silver	20.0	ND	18.4	19.3	91.9	96.3	5	75.0-125			4.63	20
Zinc	100	40.0	130	136	89.6	95.7	5	75.0-125			4.60	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4130145-1 10/08/24 18:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	1.00
Barium	ND		0.152	2.50
Cadmium	ND		0.0855	1.00
Copper	ND		0.133	5.00
Lead	ND		0.0990	2.00
Nickel	ND		0.197	2.50
Selenium	ND		0.180	2.50
Silver	ND		0.0865	0.500
Zinc	ND		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R4130145-7 10/08/24 19:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.9	96.9	80.0-120	
Barium	100	92.2	92.2	80.0-120	
Cadmium	100	98.5	98.5	80.0-120	
Copper	100	98.4	98.4	80.0-120	
Lead	100	94.3	94.3	80.0-120	
Nickel	100	100	100	80.0-120	
Selenium	100	93.4	93.4	80.0-120	
Silver	20.0	19.5	97.3	80.0-120	
Zinc	100	95.9	95.9	80.0-120	

L1783229-181 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783229-181 10/08/24 18:39 • (MS) R4130145-5 10/08/24 18:48 • (MSD) R4130145-6 10/08/24 18:51

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	1.39	101	110	99.3	108	5	75.0-125			8.56	20
Barium	100	27.2	127	132	99.7	105	5	75.0-125			4.17	20
Cadmium	100	ND	102	111	102	111	5	75.0-125			8.91	20
Copper	100	5.75	106	114	100	108	5	75.0-125			7.12	20
Lead	100	1.72	94.2	106	92.5	105	5	75.0-125			12.0	20
Nickel	100	3.69	105	116	102	112	5	75.0-125			9.45	20
Selenium	100	ND	101	107	101	107	5	75.0-125			5.57	20
Silver	20.0	ND	20.2	21.8	101	109	5	75.0-125			7.63	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129930-1 10/08/24 12:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	1.00
Barium	ND		0.152	2.50
Cadmium	ND		0.0855	1.00
Copper	ND		0.133	5.00
Lead	ND		0.0990	2.00
Nickel	ND		0.197	2.50
Selenium	ND		0.180	2.50
Silver	ND		0.0865	0.500
Zinc	ND		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R4129930-2 10/08/24 12:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	93.2	93.2	80.0-120	
Barium	100	90.8	90.8	80.0-120	
Cadmium	100	94.1	94.1	80.0-120	
Copper	100	93.0	93.0	80.0-120	
Lead	100	88.0	88.0	80.0-120	
Nickel	100	96.2	96.2	80.0-120	
Selenium	100	93.9	93.9	80.0-120	
Silver	20.0	18.9	94.4	80.0-120	
Zinc	100	93.8	93.8	80.0-120	

L1783096-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-24 10/08/24 12:20 • (MS) R4129930-5 10/08/24 12:30 • (MSD) R4129930-6 10/08/24 12:33

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 %
Arsenic	100	2.58	106	109	104	107	5	75.0-125			2.68	20
Barium	100	85.9	175	173	89.3	87.2	5	75.0-125			1.22	20
Cadmium	100	ND	105	107	105	107	5	75.0-125			1.93	20
Copper	100	10.9	113	121	102	110	5	75.0-125			6.39	20
Lead	100	12.4	114	117	102	105	5	75.0-125			2.42	20
Nickel	100	12.2	116	129	104	117	5	75.0-125			10.9	20
Selenium	100	0.620	104	109	103	108	5	75.0-125			4.61	20
Silver	20.0	ND	20.7	21.5	103	107	5	75.0-125			3.78	20
Zinc	100	58.4	160	180	102	121	5	75.0-125			11.3	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4131441-2 10/05/24 01:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	ND		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4131441-1 10/05/24 01:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.55	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4129967-2 10/05/24 08:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0277	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4129967-1 10/05/24 04:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.75	115	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			100	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4129105-2 10/05/24 17:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0449	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4129105-1 10/05/24 17:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.06	101	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			100	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4129935-3 10/07/24 21:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.798	⬇	0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	96.2			77.0-120

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

(LCS) R4129935-1 10/07/24 19:51 • (LCSD) R4129935-2 10/07/24 20:10

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 %
TPH (GC/FID) Low Fraction	5.00	5.46	5.64	109	113	72.0-127			3.24	20
(S) a,a,a-Trifluorotoluene(FID)				106	105	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129504-3 10/05/24 21:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	96.1			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	120			70.0-130

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

(LCS) R4129504-1 10/05/24 19:45 • (LCSD) R4129504-2 10/05/24 20:04

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	0.114	0.106	91.2	84.8	70.0-123			7.27	20
Toluene	0.125	0.112	0.103	89.6	82.4	75.0-121			8.37	20
Ethylbenzene	0.125	0.110	0.0992	88.0	79.4	74.0-126			10.3	20
Xylenes, Total	0.375	0.343	0.314	91.5	83.7	72.0-127			8.83	20
1,2,4-Trimethylbenzene	0.125	0.128	0.118	102	94.4	70.0-126			8.13	20
1,3,5-Trimethylbenzene	0.125	0.127	0.115	102	92.0	73.0-127			9.92	20
(S) Toluene-d8				98.8	98.6	75.0-131				
(S) 4-Bromofluorobenzene				97.6	98.9	67.0-138				
(S) 1,2-Dichloroethane-d4				123	124	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4131374-2 10/05/24 10:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	99.6			75.0-131
(S) 4-Bromofluorobenzene	96.6			67.0-138
(S) 1,2-Dichloroethane-d4	112			70.0-130

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

(LCS) R4131374-1 10/05/24 08:51 • (LCSD) R4131374-3 10/05/24 11:02

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	0.111	0.113	88.8	90.4	70.0-123			1.79	20
Toluene	0.125	0.109	0.108	87.2	86.4	75.0-121			0.922	20
Ethylbenzene	0.125	0.108	0.109	86.4	87.2	74.0-126			0.922	20
Xylenes, Total	0.375	0.331	0.333	88.3	88.8	72.0-127			0.602	20
1,2,4-Trimethylbenzene	0.125	0.121	0.124	96.8	99.2	70.0-126			2.45	20
1,3,5-Trimethylbenzene	0.125	0.121	0.117	96.8	93.6	73.0-127			3.36	20
(S) Toluene-d8				98.5	98.6	75.0-131				
(S) 4-Bromofluorobenzene				96.6	100	67.0-138				
(S) 1,2-Dichloroethane-d4				108	124	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129204-2 10/06/24 20:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	92.6			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	95.6			70.0-130

Laboratory Control Sample (LCS)

(LCS) R4129204-1 10/06/24 19:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.141	113	70.0-123	
Toluene	0.125	0.122	97.6	75.0-121	
Ethylbenzene	0.125	0.118	94.4	74.0-126	
Xylenes, Total	0.375	0.345	92.0	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.100	80.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.109	87.2	73.0-127	
(S) Toluene-d8			93.4	75.0-131	
(S) 4-Bromofluorobenzene			93.5	67.0-138	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

1
Cp

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Tc

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Ss

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Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4130567-3 10/08/24 10:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	99.9			70.0-130

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

(LCS) R4130567-1 10/08/24 08:57 • (LCSD) R4130567-2 10/08/24 09:16

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	0.139	0.124	111	99.2	70.0-123			11.4	20
Toluene	0.125	0.139	0.126	111	101	75.0-121			9.81	20
Ethylbenzene	0.125	0.139	0.126	111	101	74.0-126			9.81	20
Xylenes, Total	0.375	0.413	0.378	110	101	72.0-127			8.85	20
1,2,4-Trimethylbenzene	0.125	0.124	0.112	99.2	89.6	70.0-126			10.2	20
1,3,5-Trimethylbenzene	0.125	0.128	0.120	102	96.0	73.0-127			6.45	20
(S) Toluene-d8				103	102	75.0-131				
(S) 4-Bromofluorobenzene				102	102	67.0-138				
(S) 1,2-Dichloroethane-d4				110	110	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4131180-1 10/10/24 10:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	ND		1.61	4.00
C28-C36 Motor Oil Range	ND		0.274	4.00
(S) o-Terphenyl	90.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4131180-2 10/10/24 10:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	42.0	84.0	50.0-150	
(S) o-Terphenyl			85.3	18.0-148	

L1783096-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-01 10/10/24 11:07 • (MS) R4131180-3 10/10/24 11:19 • (MSD) R4131180-4 10/10/24 11:32

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 %
C10-C28 Diesel Range	48.9	ND	ND	ND	81.4	82.4	1	50.0-150			1.00	20
(S) o-Terphenyl					69.2	71.8		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4131151-1 10/10/24 10:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	ND		1.61	4.00
C28-C36 Motor Oil Range	ND		0.274	4.00
(S) o-Terphenyl	66.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4131151-2 10/10/24 10:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.9	75.8	50.0-150	
(S) o-Terphenyl			74.0	18.0-148	

L1783096-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-29 10/10/24 14:47 • (MS) R4131151-3 10/10/24 15:01 • (MSD) R4131151-4 10/10/24 15:15

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	49.0	ND	ND	ND	71.0	56.9	1	50.0-150			17.2	20
(S) o-Terphenyl					72.0	59.0		18.0-148				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4131530-2 10/09/24 21:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	ND		0.00209	0.00600
Anthracene	ND		0.00230	0.00600
Benzo(a)anthracene	ND		0.00173	0.00600
Benzo(b)fluoranthene	ND		0.00153	0.00600
Benzo(k)fluoranthene	ND		0.00215	0.00600
Benzo(a)pyrene	ND		0.00179	0.00600
Chrysene	ND		0.00232	0.00600
Dibenz(a,h)anthracene	ND		0.00172	0.00600
Fluoranthene	ND		0.00227	0.00600
Fluorene	ND		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	ND		0.00181	0.00600
1-Methylnaphthalene	ND		0.00449	0.0200
2-Methylnaphthalene	ND		0.00427	0.0200
Naphthalene	ND		0.00408	0.0200
Pyrene	ND		0.00200	0.00600
(S) p-Terphenyl-d14	129	J1		23.0-120
(S) Nitrobenzene-d5	122			14.0-149
(S) 2-Fluorobiphenyl	126	J1		34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4131530-1 10/09/24 21:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0723	90.4	50.0-120	
Anthracene	0.0800	0.0815	102	50.0-126	
Benzo(a)anthracene	0.0800	0.0803	100	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0838	105	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0815	102	49.0-125	
Benzo(a)pyrene	0.0800	0.0764	95.5	42.0-120	
Chrysene	0.0800	0.0871	109	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0715	89.4	47.0-125	
Fluoranthene	0.0800	0.0883	110	49.0-129	
Fluorene	0.0800	0.0827	103	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0713	89.1	46.0-125	
1-Methylnaphthalene	0.0800	0.0746	93.3	51.0-121	
2-Methylnaphthalene	0.0800	0.0709	88.6	50.0-120	
Naphthalene	0.0800	0.0702	87.8	50.0-120	
Pyrene	0.0800	0.0783	97.9	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4131530-1 10/09/24 21:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
(S) p-Terphenyl-d14			119	23.0-120	
(S) Nitrobenzene-d5			120	14.0-149	
(S) 2-Fluorobiphenyl			122	34.0-125	

L1783096-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783096-14 10/09/24 23:24 • (MS) R4131530-3 10/09/24 23:42 • (MSD) R4131530-4 10/09/24 23:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthene	0.0780	0.00849	0.0673	0.0615	75.4	67.6	1	14.0-127			9.01	27
Anthracene	0.0780	ND	0.0744	0.0687	90.9	83.2	1	10.0-145			7.97	30
Benzo(a)anthracene	0.0780	ND	0.0710	0.0643	91.0	82.0	1	10.0-139			9.90	30
Benzo(b)fluoranthene	0.0780	ND	0.0787	0.0697	101	88.9	1	10.0-140			12.1	36
Benzo(k)fluoranthene	0.0780	ND	0.0792	0.0690	102	88.0	1	10.0-137			13.8	31
Benzo(a)pyrene	0.0780	ND	0.0742	0.0662	95.1	84.4	1	10.0-141			11.4	31
Chrysene	0.0780	ND	0.0796	0.0711	102	90.7	1	10.0-145			11.3	30
Dibenz(a,h)anthracene	0.0780	ND	0.0664	0.0603	85.1	76.9	1	10.0-132			9.63	31
Fluoranthene	0.0780	ND	0.0794	0.0714	102	91.1	1	10.0-153			10.6	33
Fluorene	0.0780	0.0110	0.0765	0.0688	84.0	73.7	1	11.0-130			10.6	29
Indeno(1,2,3-cd)pyrene	0.0780	ND	0.0641	0.0581	82.2	74.1	1	10.0-137			9.82	32
1-Methylnaphthalene	0.0780	0.0102	0.0714	0.0639	78.5	68.5	1	10.0-142			11.1	28
2-Methylnaphthalene	0.0780	0.0332	0.0682	0.0595	44.9	33.5	1	10.0-137			13.6	28
Naphthalene	0.0780	0.0428	0.0687	0.0607	33.2	22.8	1	10.0-135			12.4	27
Pyrene	0.0780	ND	0.0738	0.0655	94.6	83.5	1	10.0-148			11.9	35
(S) p-Terphenyl-d14					106	94.2		23.0-120				
(S) Nitrobenzene-d5					109	100		14.0-149				
(S) 2-Fluorobiphenyl					109	98.3		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4132207-2 10/09/24 22:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	ND		0.00209	0.00600
Anthracene	ND		0.00230	0.00600
Benzo(a)anthracene	ND		0.00173	0.00600
Benzo(b)fluoranthene	ND		0.00153	0.00600
Benzo(k)fluoranthene	ND		0.00215	0.00600
Benzo(a)pyrene	ND		0.00179	0.00600
Chrysene	ND		0.00232	0.00600
Dibenz(a,h)anthracene	ND		0.00172	0.00600
Fluoranthene	ND		0.00227	0.00600
Fluorene	ND		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	ND		0.00181	0.00600
1-Methylnaphthalene	ND		0.00449	0.0200
2-Methylnaphthalene	ND		0.00427	0.0200
Naphthalene	ND		0.00408	0.0200
Pyrene	ND		0.00200	0.00600
(S) p-Terphenyl-d14	131	J1		23.0-120
(S) Nitrobenzene-d5	128			14.0-149
(S) 2-Fluorobiphenyl	116			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4132207-1 10/09/24 22:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0714	89.3	50.0-120	
Anthracene	0.0800	0.0750	93.8	50.0-126	
Benzo(a)anthracene	0.0800	0.0791	98.9	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0871	109	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0865	108	49.0-125	
Benzo(a)pyrene	0.0800	0.0804	101	42.0-120	
Chrysene	0.0800	0.0852	106	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0885	111	47.0-125	
Fluoranthene	0.0800	0.0816	102	49.0-129	
Fluorene	0.0800	0.0785	98.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0836	105	46.0-125	
1-Methylnaphthalene	0.0800	0.0854	107	51.0-121	
2-Methylnaphthalene	0.0800	0.0804	101	50.0-120	
Naphthalene	0.0800	0.0784	98.0	50.0-120	
Pyrene	0.0800	0.0860	108	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4132207-1 10/09/24 22:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			119	23.0-120	
(S) Nitrobenzene-d5			119	14.0-149	
(S) 2-Fluorobiphenyl			107	34.0-125	

L1783833-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783833-03 10/10/24 03:37 • (MS) R4132207-3 10/10/24 03:54 • (MSD) R4132207-4 10/10/24 04:11

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 %
Acenaphthene	0.0780	ND	0.0611	0.0626	78.3	80.7	1	14.0-127			2.43	27
Anthracene	0.0780	ND	0.0638	0.0662	81.8	85.3	1	10.0-145			3.69	30
Benzo(a)anthracene	0.0780	ND	0.0672	0.0681	86.2	87.8	1	10.0-139			1.33	30
Benzo(b)fluoranthene	0.0780	ND	0.0729	0.0737	93.5	95.0	1	10.0-140			1.09	36
Benzo(k)fluoranthene	0.0780	ND	0.0712	0.0714	91.3	92.0	1	10.0-137			0.281	31
Benzo(a)pyrene	0.0780	ND	0.0710	0.0718	91.0	92.5	1	10.0-141			1.12	31
Chrysene	0.0780	ND	0.0726	0.0740	93.1	95.4	1	10.0-145			1.91	30
Dibenz(a,h)anthracene	0.0780	ND	0.0745	0.0754	95.5	97.2	1	10.0-132			1.20	31
Fluoranthene	0.0780	ND	0.0705	0.0721	90.4	92.9	1	10.0-153			2.24	33
Fluorene	0.0780	ND	0.0683	0.0685	87.6	88.3	1	11.0-130			0.292	29
Indeno(1,2,3-cd)pyrene	0.0780	ND	0.0697	0.0709	89.4	91.4	1	10.0-137			1.71	32
1-Methylnaphthalene	0.0780	ND	0.0710	0.0746	91.0	96.1	1	10.0-142			4.95	28
2-Methylnaphthalene	0.0780	ND	0.0672	0.0680	86.2	87.6	1	10.0-137			1.18	28
Naphthalene	0.0780	ND	0.0668	0.0684	85.6	88.1	1	10.0-135			2.37	27
Pyrene	0.0780	ND	0.0733	0.0744	94.0	95.9	1	10.0-148			1.49	35
(S) p-Terphenyl-d14					99.6	106		23.0-120				
(S) Nitrobenzene-d5					99.3	107		14.0-149				
(S) 2-Fluorobiphenyl					91.0	98.4		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

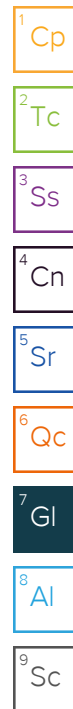
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
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.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

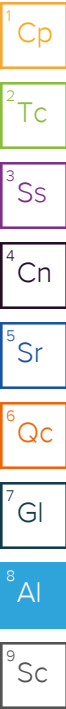
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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	LA000356
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.



Company Name/Address:
Quandary consultants
4480 BARFIELD ST
DENVER CO 80216

Billing Information:
Civitas - Quandary

Report to:
bvanhorn@quandaryconsultants.com

Email To:
Jacob Evans

Project Description:
PRATT F unit 1

City/State Collected:
CO

Please Circle:
PT MT CT ET

Phone:
720-297-1942

Client Project #

Lab Project #

Collected by (print):
Rustin Henry

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)
Three Day

Quote #
Civitas BVCO - Quandary
Date Results Needed
STANDARD TAT

No. of Cntrs

Immediately
Packed on Ice N Y X

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs
2-0-29-FL-B03e3'				09-26-24	—	3
21-29-FL-B03e3'						
12-29-FL-B02e3'						
0-2-29-FL-B02e3'						
WH-BG01e3'						
WH-BG01e3'						
WH-BG01e6'						
WH-BG02e3'						
WH-BG02e3'						
WH-BG02e6'						

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

Remarks:
ED 9-28-24

Samples returned via:
UPS FedEx Courier

Tracking #
multi

Relinquished by: (Signature)
Rustin Henry

Date:
9/27/24

Time:
1000

Received by: (Signature)
[Signature]

Trip Blank Received: Yes/No
HCL/MeOH
TBR

Temp: °C
Bottles Received: 108

If preservation required by Login: Date/Time

Relinquished by: (Signature)
[Signature]

Date:
9/27/24

Time:
1800

Received by: (Signature)
[Signature]

Temp: °C
Bottles Received: 108

If preservation required by Login: Date/Time

Relinquished by: (Signature)
[Signature]

Date:
9/28-24

Time:
0900

Received by: (Signature)
[Signature]

Temp: °C
Bottles Received: 108

If preservation required by Login: Date/Time

Analysis / Container / Preservative

Analysis / Container / Preservative
Full table 915
915 inorganics

Chain of Custody

Page ___ of ___

Pace

PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-term.pdf>

E110

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Remarks

Sample # (lab only)

Company Name/Address: Quandary Consultants 4480 GRIFFIN ST DENVER CO 80216			Billing Information: CIVITAS BVCO - Quandary			Analysis / Container / Preservative <div style="border: 1px solid black; height: 100px; width: 100%;"></div>			Chain of Custody Page ____ of ____ PEOPLE ADVANCING SCIENCE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf											
Report to: bvanhorn@quandaryconsultants.com			Email To: Jaob Evans			Pres Chk <div style="border: 1px solid black; height: 100px; width: 100%;"></div>														
Project Description: PRATF Unit 1			City/State Collected: CO									Please Circle: PT <input type="radio"/> AMT <input type="radio"/> CT <input type="radio"/> ET								
Phone: 720-297-1942			Client Project #									Lab Project #								
Collected by (print): Rukin Henry			Site/Facility ID #									P.O. #								
Collected by (signature): <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day			Quote # CIVITAS BVCO - Quandary Date Results Needed Standard TAR			No. of Cntrs <div style="border: 1px solid black; height: 100px; width: 100%;"></div>											
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>			Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>			Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>														
Sample ID			Comp/Grab			Matrix*						Depth			Date			Time		
0-2-29-FL-B01e3'			S			426-24						1235			3					
4-2-29-W45-N01e3''			S			1241			x			71								
2-4-29-FL-B02e3''			S			1540			x			72								
22-29-FL-B02e3'			S			1541			x			73								
4-2-29-FL-B02e3'			S			1542			x			74								
20-29-FL-B02e3'			S			1543			x			75								
21-29-FL-B02e3'			S			1544			x			76								
2-4-29-FL-B03e3'			S			-			x			77								
22-29-FL-B03e3'			S			-			x			78								
4-2-29-FL-B03e3'			S			-			x			79								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____			Remarks: ED 928-24			Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier			Tracking #			pH _____ Temp _____ Flow _____ Other _____			Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
Relinquished by: (Signature) Rukin Henry			Date: 9/28/24			Time: 1000			Received by: (Signature) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			Trip Blank Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> HCL/MeOH TBR			Temp: _____ °C Bottles Received: 108			If preservation required by Login: Date/Time		
Relinquished by: (Signature) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			Date: 9/28/24			Time: 1600			Received by: (Signature) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			Temp: _____ °C Bottles Received: multi			Hold:					
Relinquished by: (Signature) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			Date: 9-28-24			Time: 0900			Received for lab by: (Signature) in Nava			Date: 9-28-24			Time: 0900			Condition:		

Company Name/Address: Quandary consultants 4480 CARRFIELD ST DENVER, CO 80216	Billing Information: CIVITAS-BVCO- Quandary	Analysis / Container / Preservative	Chain of Custody Page ___ of ___
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Report to: bvanhorn@quandaryconsultants.com	Email To: Jacob Evans	
Project Description: PRATFUNIT I	City/State Collected: CO	Please Circle: PT MT CT ET

Phone: 720-297-1942	Client Project #	Lab Project #
Collected by (print): Ruffin Henry	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) ____ Three Day	Quote # CIVITAS BVCO - Quandary Date Results Needed STANDARD TAT
Immediately Packed on Ice N ____ Y <u>X</u>		No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Chain of Custody
21-29-WH-BØ1@5'		S		9-26-24	1215	3		
2-0-29-WH-BØ1@5'					1219			
22-29-WH-BØ1@5'					1222			
2-4-29-WH-BØ1@5'					1225			
21-29-FL-BØ1@3'					1229			
2-0-29-FL-BØ1@3'					1230			
4-2-29-FL-BØ1@3'					1231			
22-29-FL-BØ1@3'					1232			
2-4-29-FL-BØ1@3'					1233			
12-29-FL-BØ1@3'					1234			

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks: ED-28-24	pH ____ Temp ____ Flow ____ Other ____
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Relinquished by: (Signature) Ruffin Henry	Date: 9/27/24	Time: 1000	Received by: (Signature) [Signature]	Trip Blank Received: Yes/No HCL/MeOH TBR
Relinquished by: (Signature) [Signature]	Date: 9/27/24	Time: 1400	Received by: (Signature) [Signature]	Temp: °C Bottles Received: mu141 108
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [Signature]	Date: 9-28-24

Sample Receipt Checklist
COC Seal Present/Intact: NP <u>Y</u> N
COC Signed/Accurate: <u>Y</u> N
Bottles arrive intact: <u>Y</u> N
Correct bottles used: <u>Y</u> N
Sufficient volume sent: <u>Y</u> N
If Applicable
VOA Zero Headspace: <u>Y</u> N
Preservation Correct/Checked: <u>Y</u> N
RAD Screen <0.5 mR/hr: <u>Y</u> N
If preservation required by Login: Date/Time
Hold:
Condition:

[illegible]

1082 0415 4107

$$1.6 + 0.3 = 1.9.$$
[illegible]

9-28-24

Date _____

L17830916