October 26, 2023

Schuyler Hamilton
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Report of Work Completed – Tank Release

ECMC Location Name (ID)	PRF-63N97W/21NESE (315979)
Operator Location Name	Pinyon Ridge Federal C-1W
Remediation Project Number	23348
Legal Description	NESE Sec. 21 T3N-R97W
Coordinates (Lat/Long)	40.212478 / -108.276409
County	Rio Blanco County, Colorado

Mr. Hamilton,

Confluence Compliance Companies, LLC (Confluence) prepared Report of Work Completed (ROWC) for Anschutz Exploration Corporation (Anschutz) to document the findings of site investigation conducted to delineate the vertical extents of soil impacts associated with a release of produced water at the Pinyon Ridge Federal C-1W well pad (Location). The Location is 22.7 miles northwest of Meeker, Colorado in Rio Blanco County as illustrated in the attached Topographic Location Map. Additional information on the Location and associated remediation project is provided in the title block above and in the attached topographic location map and site diagrams. The ROWC provides a brief background on the incident and remediation project, methods used to complete the drilling assessment, results of the assessment, and recommendations for how to proceed with this information.

Background

On March 27, 2022, an unknown volume of produced water overflowed from a tank and spilled inside lined secondary containment. Standing fluids were observed both inside and outside of secondary containment. Fluids were recovered via vacuum truck, resulting in the recovery of approximately 19 barrels of produced water. Energy & Carbon Management Commission (ECMC) Initial Form 19 Document 403000387 was submitted to document the release and to open Spill/Release Point ID 481972. ECMC Initial Form 27 Document 403056825 was later submitted to open Remediation Project Number 23348.

Initial site investigation efforts, including soil and water sampling, were completed on May 10, 2022. Eight soil samples were collected from the point of release (POR) and from visibly saturated areas of the pad surface. Analytical results of soil samples indicated exceedances of ECMC Table 915-1 Residential Screening Levels (RSSLs) for total petroleum hydrocarbons (TPH), pH, sodium adsorption ratio (SAR), and arsenic. Three water samples were also collected from the Location. 220510-PREFCIW-WW was collected from equipment on site as a produced water waste characterization sample. 220510-PREFCIW-OFLOW POND was collected as a surface water sample from the overflow pond on location, and 220510-PREFCIW-STOCK was collected from the surface water downgradient of the location. The waste characterization sample demonstrated levels of benzene, chloride, and sulfate above ECMC Table 915-1 RSSLs. Analytical results of both surface water samples were within ECMC Table 915-1 allowable limits for all constituents of concern.

On July 25, 2022, Confluence coordinated and oversaw drilling activities to delineate the extents of confirmed soil impacts. A total of 10 soil borings (SB01-SB10) were advanced using a direct push drill rig. With the exception of SB04, two soil samples were collected from each soil boring: one from the most impacted interval as determined by field observations and one from the terminus of the boring. No sample was collected from SB04 due to encountering refusal at 4 feet below ground surface (bgs). Analytical results of the soil boring samples indicate compliance with ECMC Table 915-1 RSSLs except for SAR, pH, and arsenic.

On September 28, 2022, Confluence returned to the Location to delineate the extent of soil impacts within secondary containment. Three soil borings (PHNE, PHNW, and PHS) were advanced with a hand auger to total depths ranging from 4 to 12 feet bgs. Two soil samples were collected from each boring with the exception of PHNW: one from the most impacted interval as determined by field observations and one from the terminus of the boring. One soil sample was collected from PHNW as field screening did not indicate soil impacts. Additionally, five background soil samples were collected from nearby, native, non-impacted soil. Analytical results of soil boring samples exceed ECMC Table 915-1 RSSLs for TPH, SAR, pH, and arsenic. Analytical results of background samples exceed ECMC Table 915-1 RSSLs for pH and arsenic.

Methodology

From July 11 to July 13, 2023, Confluence returned to the Location to continue delineation efforts. Six delineation soil borings (SB11-SB13 and SB15-SB17) were advanced using a direct push drill rig to total depths ranging from 4 to 18 feet bgs. Two soil samples were collected from each soil boring: one from the most impacted interval as determined by field observations and one from the terminus of the boring. A third sample was collected from SB16 to characterize additional potential impacts. Four additional soil borings (SB14, SB18, SB19, and SB20) were advanced around the Location in native, non-impacted soil to further characterize native levels of inorganic constituents. Twelve soil samples were collected from the background investigation borings. Soil samples were field screened using visual and olfactory observations and using a photoionization detector (PID).

On October 3, 2023, Confluence returned to the Location to collect a produced water characterization sample. The fluid sample was collected from a produced water tank at the Location.

All collected soil samples were placed in laboratory provided containers, immediately placed on ice, and shipped for laboratory analysis under a completed chain-of-custody form to Pace Analytical Services (Pace). Characterization soil samples were submitted for analysis of the approved reduced suite of TPH, pH, SAR, and arsenic. Background samples were submitted for analysis of ECMC Table 915-1 inorganic constituents. The produced water sample was submitted for analysis of pH and metals. Sample locations are illustrated in the attached Site Diagrams.

Results

These results summarize findings from the site investigation. For organizational and presentation purposes, the results summary is divided between general observations of lithology and hydrogeology for the entire Location and site investigation activities. Collected spatial data are depicted in the attached Site Diagrams. Laboratory analytical reports are attached and summarized in the Laboratory Results Summary Table.

Lithology and Hydrogeology

Lithology at the Location is characterized by clay loam with interbedded mudstone lenses between 4 feet bgs to 22.5 feet bgs. Groundwater is expected to flow northeast towards Open Gulch and ultimately to the White River, located 4.7 miles south of the Location. During the course of site investigation, multiple soil borings have been advanced to refusal around the Location with a maximum depth of 25 feet bgs. Groundwater has not been encountered during site investigation to date. For this reason, depth to groundwater at the Location is assumed to be greater than 25 feet bgs, beneath a lithologic confining layer.

Delineation Soil Borings

Potential soil impacts were observed in SB11 and SB16; hydrocarbon staining and odor were noted within SB11 at 8 feet bgs, and hydrocarbon odor was noted within SB16 at 4 feet bgs. PID measurements of these samples ranged from 162.0 to 2,154 parts per million (ppm). Field screening of the remaining soil samples did not indicate impacts with PID measurements ranging from 0.2 ppm to 30.1 ppm. Analytical results of the delineation soil boring samples exceed ECMC Table 915-1 RSSLs for SAR, pH, and arsenic. Exceedances of SAR range from 7.70 to 21.8, and pH exceedances range from 8.32 to 9.68. Arsenic exceedances range from 4.32 to 14.2 milligrams per kilogram (mg/kg).

Background Investigation

Analytical results of background samples exceed ECMC Table 915-1 RSSLs for EC, SAR, pH, arsenic, and hexavalent chromium. EC exceedances range from 4.160 to 8.510 millimhos per centimeter (mmhos/cm), SAR exceedances range from 8.15 to 18.8, and pH exceedances range from 8.35 to 9.00. Arsenic exceedances range from 4.75 to 14.3 mg/kg, and hexavalent chromium exceedances range from 0.303 to 0.453 mg/kg.

Produced Water Characterization

Analytical results of the produced water characterization indicate an arsenic value below laboratory detection limits and near-neutral pH at 6.46. See the attached Laboratory Results Summary Table for additional details and results.

Analysis and Recommendations

Although levels of SAR exceeding ECMC Table 915-1 RSSL remain at the Location, analytical results of background sample 230713-PR_C-1W_SB18@12-15 indicates a native SAR value of 18.8. SB18 shares the same elevation and soil type as the Location (Kobase silty clay loam) therefore, it is reasonable to conclude that SB18 is representative of native soil conditions at the Location. Confluence recommends that Anschutz request consideration of ECMC Table 915-1 Footnote 1 to establish an alternative allowable limit for SAR of 18.8. Additionally, although levels of pH and arsenic exceeding ECMC Table 915-1 Residential Soil Screening Levels remain at the Location, produced water characterization data indicates the release was not a significant source of arsenic or pH.

Confluence recommends that Anschutz request consideration of ECMC Rule 915.e.(2).C. to remove arsenic, pH, and SAR as constituents of concern based on operator knowledge that the produced water at the Location is not a significant source of arsenic and contains near-neutral pH. Additionally, this is supported by analytical results from the initial point of release samples, which are below native SAR levels observed at the Location.

Assuming the proposed alternative allowable limit, operator knowledge, and source characterization are accepted, all constituents of concern are within allowable limits or alternative allowable limits except for TPH. Exceedances of TPH remain in the release area, and have been delineated vertically and horizontally. Confluence recommends that TPH impacts be removed and properly disposed or remediated in place. Confluence also recommends that Anschutz request an updated reduced analyte list of TPH prior to additional sampling.

Confluence is grateful for the opportunity to support you with this project. If you have any questions about the methods, results, or recommendations presented here, please do not hesitate to contact us.

Regards,

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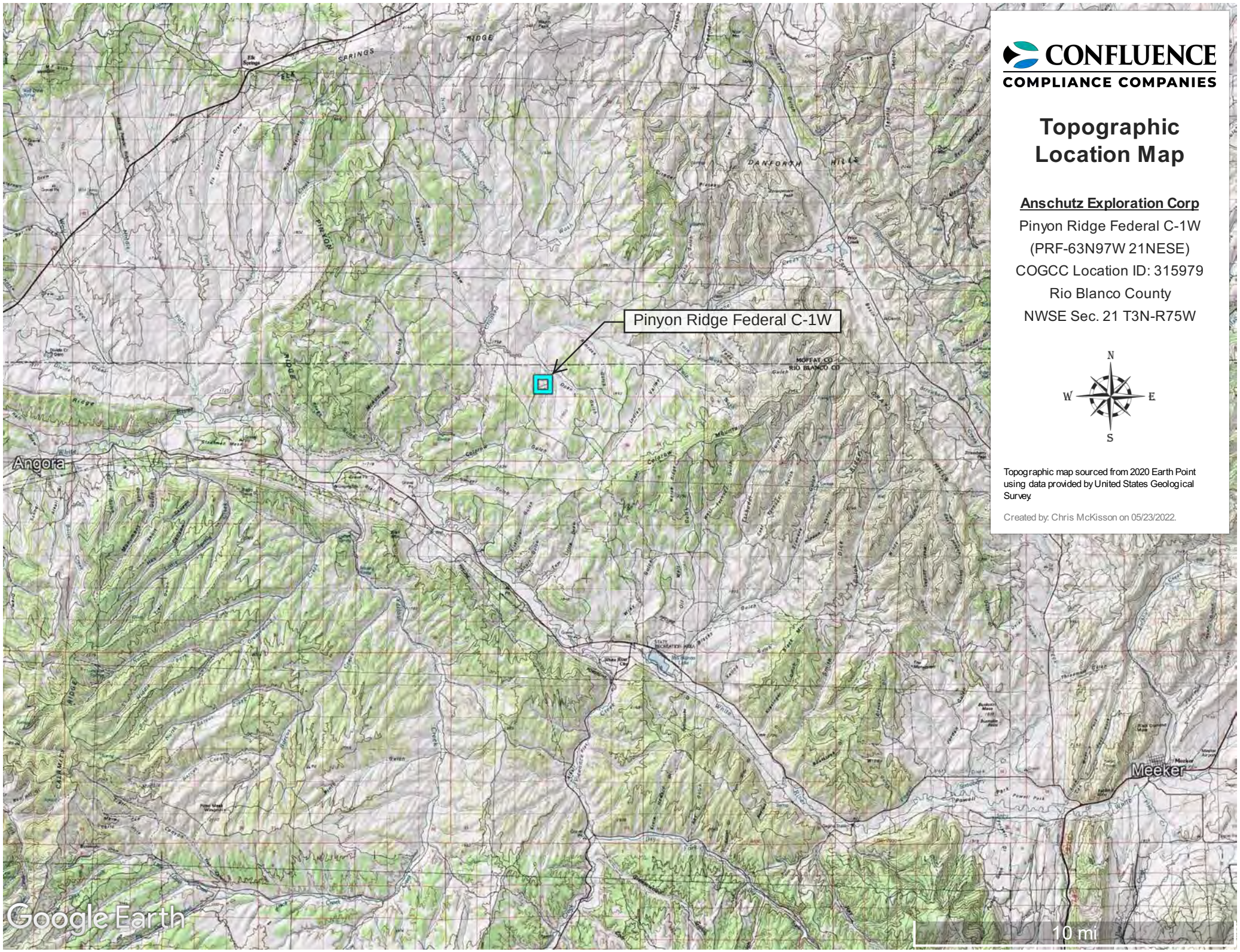
Attachments

- Topographic Location Map
- Site Diagram – Site Investigation
- Site Diagram – Supporting Samples
- Analytical Results Summary Table – Soil
- Analytical Results Summary Table – Water
- Laboratory Report



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Topographic Location Map

Anschutz Exploration Corp

Pinyon Ridge Federal C-1W

(PRF-63N97W 21NESE)

COGCC Location ID: 315979

Rio Blanco County

NWSE Sec. 21 T3N-R75W

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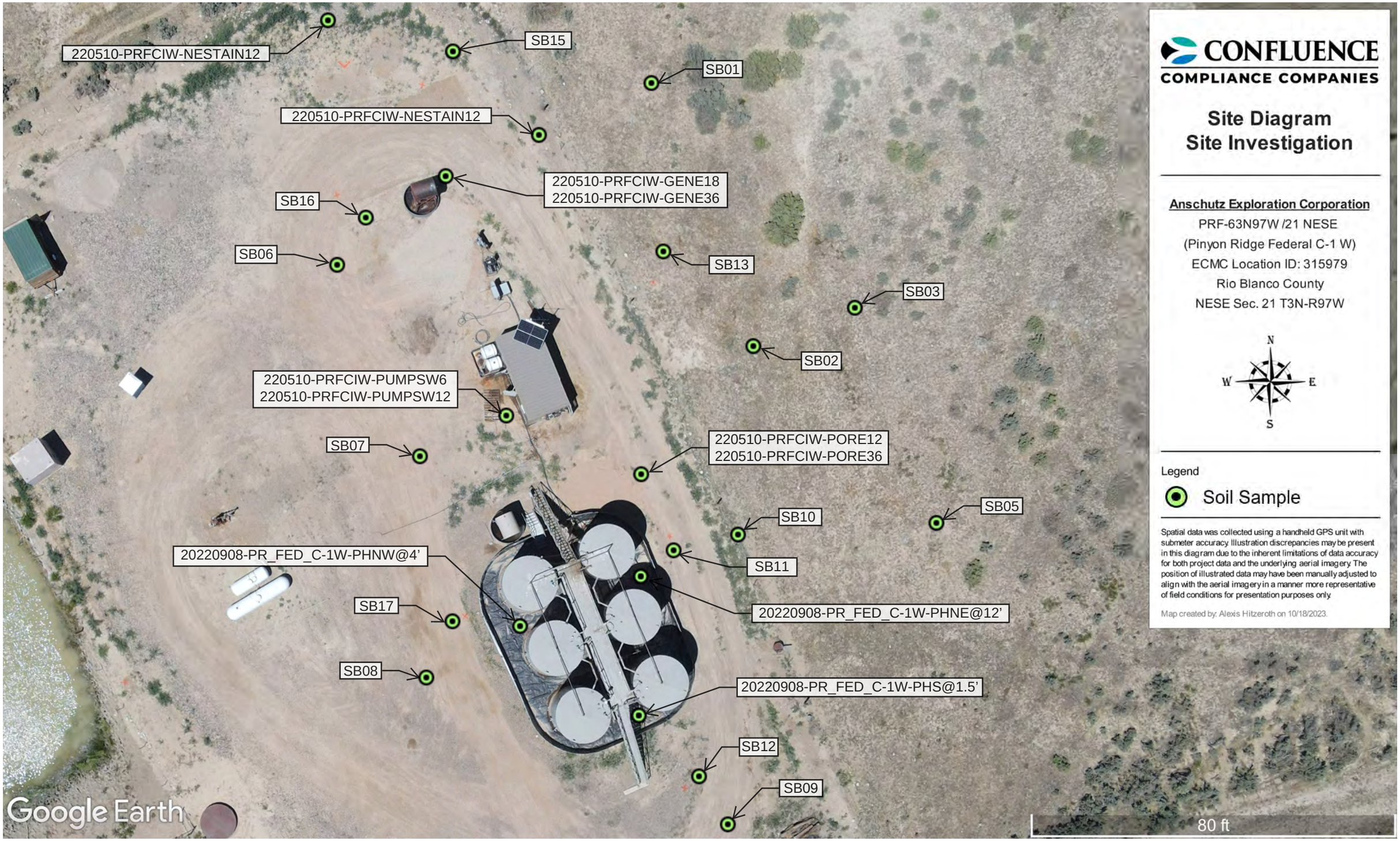
Topographic map sourced from 2020 Earth Point using data provided by United States Geological Survey.

Created by: Chris McKisson on 05/23/2022.



CONFLUENCE
COMPLIANCE COMPANIES

Site Diagram
Site Investigation

Anschutz Exploration Corporation
PRF-63N97W /21 NESE
(Pinyon Ridge Federal C-1 W)
ECMC Location ID: 315979
Rio Blanco County
NESE Sec. 21 T3N-R97W

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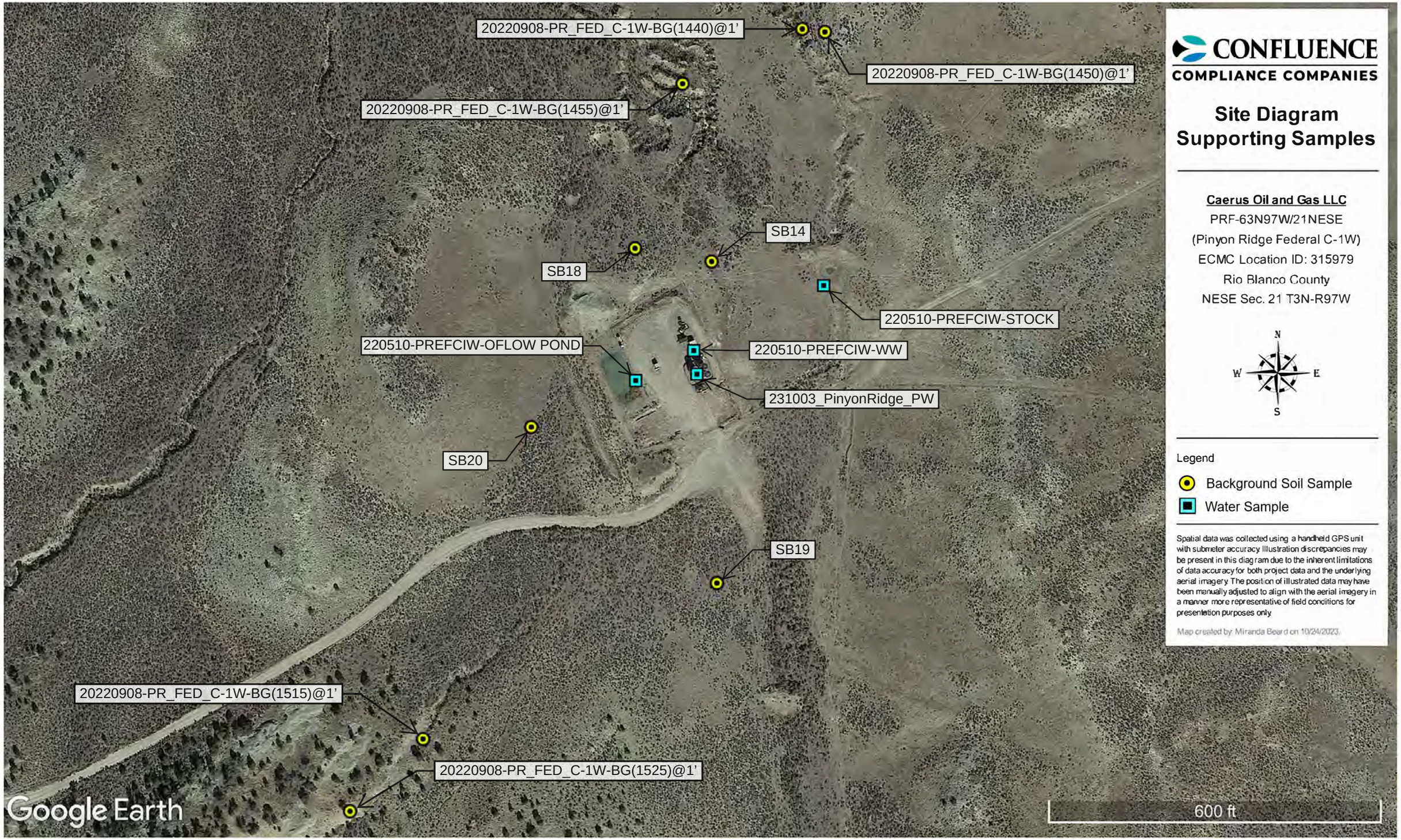
Legend

Soil Sample

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Alexis Hitzeroth on 10/18/2023.



CONFLUENCE
COMPLIANCE COMPANIES

Site Diagram
Supporting Samples

Caerus Oil and Gas LLC
PRF-63N97W/21NESE
(Pinyon Ridge Federal C-1W)
ECMC Location ID: 315979
Rio Blanco County
NESE Sec. 21 T3N-R97W

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Legend

- Background Soil Sample
- Water Sample

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Miranda Beard on 10/24/2023

CONFLUENCE

Laboratory Results Summary Table - Soil
Soil Pinyon Ridge Federal C-1

10/23/2023

					Organic Compounds (mg/kg [ppm])																										
			ECMC Soil Screening Levels																												
			ECMC Table 915-1 Residential -->	NA	500	NA	NA	NA	1.2	490	5.8	58	30	27	360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	18	24	2	180
Sample Date	Solid/Soil Source (Equipment) (Vault/Sump, Separator, Tank Battery, Pump Line, Pit, Cuttings, Background, etc.)	Depth - Z (feet) (NEGATIVE VALUE) below ground surface (bgs)	Sample ID	PID (ppm)	TPH (total volatile and extractable petroleum hydrocarbons) (GRO+DRO+ORO)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-ORO (C28-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total (sum of o-, m-, p- isomers)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(A)pyrene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Chrysene	Dibenz(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3,C,D)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Pyrene
7/13/2023	Tank Battery	-4	230713-PR_C-1W_SB17@0-4	4.6	8.95	0.0614	6.44	2.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Tank Battery	-11	230713-PR_C-1W_SB17@8-11	1.1	4.96	0.0457	2.90	2.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB11@4-8	2154	428.5	374	37.4	17.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-18	230712-PR_C-1W_SB11@16-18	8.9	4.03	0.0907	2.15	1.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB12@4-8	1.6	4.99	0.160	2.13	2.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-14	230712-PR_C-1W_SB12@12-14	0.8	6.46	0.109	2.70	3.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB13@4-8	0.5	10.04	0.0798	3.65	6.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-12	230712-PR_C-1W_SB13@8-12	9.9	8.41	0.0688	3.36	4.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-4	230712-PR_C-1W_SB15@0-4	30.1	282	0.0846	148	134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-11	230712-PR_C-1W_SB15@8-11	0.2	1.18	0.0820	<4.00	1.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-4	230712-PR_C-1W_SB16@0-4	162.0	128.2	1.05	84.3	42.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB16@4-8	5.5	5.26	0.102	2.13	3.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-11	230712-PR_C-1W_SB16@8-11	3.0	5.20	0.0898	3.20	1.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-12	20220928-PR_FED_C-1W-PHNE@12'	2148	1101	1050	36.7	13.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHNE@4'	2702	1535	1420	88.3	26.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHS@4'	5.9	0.393	0.0828	<4.00	0.310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHNW@4'	1.5	1.77	0.0559	<4.00	1.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-1.5	20220928-PR_FED_C-1W-PHS@1.5'	309.2	32.4	6.59	11.7	14.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-25	220725-C1W-SB05@22'-25'	NA	2.54	0.0411	<4.00	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-22.5	220725-C1W-SB01@20'-22.5'	NA	0.481	<0.100	<4.00	0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-22.5	220725-C1W-SB03@20'-22.5'	NA	83.6	44.2	34.8	4.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB06@17.5'-20'	NA	ND	<0.100	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB01@17.5'-20'	NA	2.03	<0.100	<4.00	2.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB05@17.5'-20'	NA	0.0374	0.0374	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19.5	220725-C1W-SB09@17'-19.5'	NA	0.444	0.0938	<4.00	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19.5	220725-C1W-SB10@17.5'-19.5'	NA	0.836	0.0384	<4.00	0.798	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19	220725-C1W-SB03@16'-19'	NA	155	142	6.44	6.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-17.5	220725-C1W-SB07@15'-17.5'	NA	ND	<0.100	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-17.5	220725-C1W-SB02@15'-17.5'	NA	2.13	0.0277	<4.00	2.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB07@12.5'-15'	NA	2.93	<0.100	<4.00	2.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB10@12.5'-15'	NA	336	332	2.17	1.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB06@12.5'-15'	NA	26.5	<0.100	2.39	24.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB09@12.5'-15'	NA	1.15	0.0765	<4.00	1.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB02@10'-15'	NA	49.2	49.2	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-14.5	220725-C1W-SB08@12'-14.5'	NA	ND	<0.100	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-10	220725-C1W-SB08@8'-10'	NA	3.51	<0.100	<4.00	3.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/10/2022	Tank Battery	-3	220510-PRFCIW-PORE36	1470	1743	1400	282	61.2	0.0123	0.0705	1.23	21.3	6.02	5.85	0.00424	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00897	<0.00600	0.0719	0.205	0.105	<0.00600
5/10/2022	Tank Battery	-3	220510-PRFCIW-GENE36	438.9	2855	485	2370	<40.0	0.00455	0.0123	1.82	5.2	12.4	2.88	0.266	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.403	<0.00600	2.34	2.76	1.54	0.142
5/10/2022	Tank Battery	-1.5	220510-PRFCIW-GENE18	397.6	4414	495	3900	18.6	0.0054	0.0194	1.45	5.03	11.3	2.6	0.24	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.383	<0.00600	2.8	3.19	1.74	0.116
5/10/2022	Tank Battery	-1	220510-PRFCIW-PUMPSW12	0.8	20.2	0.12	6.34	13.7	<0.00100	<0.00500	<0.00250	0.00124	<0.00500	0.00752	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600
5/10/2022	Tank Battery	-1	220510-PRFCIW-NESTAIN12	88.8	3392	1.51	2340	1050	0.00065	0.00455	0.00657	0.216	0.295	0.153	0.0748	<0.00600	<0.00600	<0.00600	0.00459	0.00408	0.0185	<0.00600	0.0204	0.401	<0.00600	1.35	1.72	0.277	0.0154
5/10/2022	Tank Battery	-1	220510-PRFCIW-PORE12	28.7	60.2	1.8	31.9	26.5	<0.00100	<0.00500	<0.00250	0.0143	0.00528	0.0234	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600
5/10/2022	Tank Battery	-1	220510-PRFCIW-NSTAIN12	138.7	339	5.68	227	106	<0.00100	<0.00100	0.00085	0.00376	0.00478	0.114	0.0128	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.003	<0.00600	0.00282	0.0505	<0.00600	0.178	0.00555	0.00902	0.00317
5/10/2022	Tank Battery	-0.5	220510-PRFCIW-PUMPSW6	40	69.3	0.791	41.6	26.9	<0.00100	<0.00500	<0.00250	0.00178	<0.00500	0.0079	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00262	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600

Orange Fill = Exceedance
Dark Gray Italics = Below Reporting Detection Limit (RDL)
"NA" = Not Analyzed
mg/kg = milligrams per kilogram / parts per million

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Laboratory Results Summary Table - Soil
Soil Pinyon Ridge Federal C-1

10/23/2023

ECMC Soil Screening Levels					Soil Suitability for Reclamation				Metals (mg/kg [ppm])									
ECMC Table 915-1 Residential -->				NA	4	6	6-8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
Sample Date	Solid/Soil Source (Equipment) (Dan/Dump, Separator, Tank Battery, Dump Line, Pit, Cuttings, Background, etc.)	Depth - Z (feet) (NEGATIVE VALUE) (below ground surface (bgs)	Sample ID	PID (ppm)	EC (Specific Conductance) (millimhos/centimeter) (by saturated paste method)	SAR (Sodium Adsorption Ratio) (calculation) (by saturated paste method)	pH (pH Units) (by saturated paste method)	Boron - Hot Water Soluble (mg/L)	Arsenic	Barium	Cadmium (mg/Kg)	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
7/13/2023	Tank Battery	-4	230713-PR_C-1W_SB17@0-4	4.6	NA	2.91	8.89	NA	4.72	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Tank Battery	-11	230713-PR_C-1W_SB17@8-11	1.1	NA	10.5	7.48	NA	4.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB11@4-8	2154	NA	11.8	8.30	NA	5.93	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-18	230712-PR_C-1W_SB11@16-18	8.9	NA	7.70	7.74	NA	4.78	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB12@4-8	1.6	NA	21.8	8.61	NA	6.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-14	230712-PR_C-1W_SB12@12-14	0.8	NA	11.6	8.32	NA	8.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB13@4-8	0.5	NA	11.6	8.29	NA	6.87	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-12	230712-PR_C-1W_SB13@8-12	9.9	NA	13.7	8.23	NA	5.96	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-4	230712-PR_C-1W_SB15@0-4	30.1	NA	2.46	8.47	NA	6.45	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-11	230712-PR_C-1W_SB15@8-11	0.2	NA	2.50	9.68	NA	7.40	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-4	230712-PR_C-1W_SB16@0-4	162.0	NA	3.53	7.80	NA	6.94	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-8	230712-PR_C-1W_SB16@4-8	5.5	NA	1.09	7.93	NA	5.55	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Tank Battery	-11	230712-PR_C-1W_SB16@8-11	3.0	NA	0.753	7.91	NA	14.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-12	20220928-PR_FED_C-1W-PHNE@12'	2148	NA	25.7	8.69	NA	5.67	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHNE@4'	2702	NA	20.6	8.27	NA	6.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHS@4'	5.9	NA	18.4	8.61	NA	6.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHNW@4'	1.5	NA	3.74	8.24	NA	6.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-1.5	20220928-PR_FED_C-1W-PHS@1.5'	309.2	NA	70.2	8.35	NA	6.88	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-25	220725-C1W-SB05@22'-25'	NA	NA	10.6	7.94	NA	8.70	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-22.5	220725-C1W-SB01@20'-22.5'	NA	NA	14.2	6.54	NA	6.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-22.5	220725-C1W-SB03@20'-22.5'	NA	NA	7.02	6.66	NA	38.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB06@17.5'-20'	NA	NA	23.5	7.19	NA	6.59	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB01@17.5'-20'	NA	NA	17.5	5.45	NA	30.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB05@17.5'-20'	NA	NA	4.60	7.82	NA	6.30	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19.5	220725-C1W-SB09@17'-19.5'	NA	NA	6.44	7.98	NA	7.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19.5	220725-C1W-SB10@17.5'-19.5'	NA	NA	5.78	7.51	NA	5.25	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19	220725-C1W-SB03@16'-19'	NA	NA	8.23	8.08	NA	19.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-17.5	220725-C1W-SB07@15'-17.5'	NA	NA	34.7	5.55	NA	4.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-17.5	220725-C1W-SB02@15'-17.5'	NA	NA	5.90	7.52	NA	26.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB07@12.5'-15'	NA	NA	26.8	5.03	NA	12.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB10@12.5'-15'	NA	NA	21.2	7.94	NA	8.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB06@12.5'-15'	NA	NA	14.3	4.81	NA	49.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB09@12.5'-15'	NA	NA	9.55	8.05	NA	6.50	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB02@10'-15'	NA	NA	8.11	8.12	NA	6.43	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-14.5	220725-C1W-SB08@12'-14.5'	NA	NA	19.6	6.73	NA	11.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-10	220725-C1W-SB08@8'-10'	NA	NA	15.3	7.14	NA	21.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/10/2022	Tank Battery	-3	220510-PRFCIW-PORE36	1470	2.810	17.6	7.77	1.040	5.15	95.3	0.285	<1.00	14.3	8.26	12.2	<2.00	<1.00	44.7
5/10/2022	Tank Battery	-3	220510-PRFCIW-GENE36	438.9	0.443	3.46	7.67	0.647	7.12	114	0.388	<1.00	21.2	10.7	16.2	<2.00	<1.00	57.8
5/10/2022	Tank Battery	-1.5	220510-PRFCIW-GENE18	397.6	0.955	1.14	7.38	0.573	4.52	80.6	0.289	<1.00	15	10.7	11.6	<2.00	<1.00	44.3
5/10/2022	Tank Battery	-1	220510-PRFCIW-PUMPSW12	0.8	1.560	12.4	8.85	0.812	5.92	132	0.289	<0.255	15.3	8.65	15.5	<2.00	<1.00	44.4
5/10/2022	Tank Battery	-1	220510-PRFCIW-NESTAIN12	88.8	0.729	8.25	8.38	0.696	6.44	193	0.323	<1.00	15.3	10.2	18	<2.00	<1.00	46.1
5/10/2022	Tank Battery	-1	220510-PRFCIW-PORE12	28.7	1.060	4.63	8.45	0.903	4.46	95.8	0.261	0.3	17.5	6.94	22.5	<2.00	<1.00	40.2
5/10/2022	Tank Battery	-1	220510-PRFCIW-NSTAIN12	138.7	1.390	0.871	7.69	0.423	7.85	114	0.308	<1.00	18.3	11	18.8	0.838	<1.00	53.1
5/10/2022	Tank Battery	-0.5	220510-PRFCIW-PUMPSW6	40	1.300	2.02	8.84	0.138	5.45	105	0.281	0.261	14.6	8.62	12.9	<2.00	<1.00	43.9

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Laboratory Results Summary Table - Backgrounds
Pinyon Ridge Federal C-1W

10/23/2023

					Organic Compounds (mg/kg [ppm])																									
ECMC Soil Screening Levels																														
ECMC Table 915-1 Residential -->				NA	500	NA	NA	NA	1.2	490	5.8	58	30	27	360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	18	24	2	180
Sample Date	Soil/Soil Source (Equipment) (Native Material, Stockpile, Backfill, Dump Line, Pit, Cuttings, Background, etc.)	Depth - Z (feet) (NEGATIVE VALUE) below ground surface (bgs)	Sample ID	PID (ppm)	TPH (total volatile and extractable petroleum hydrocarbons) (GRO+DRO+ORO)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-ORO (C28-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total (sum of o-, m-, p- isomers)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(A)pyrene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Chrysene	Dibenz(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3,C,D)pyrene	1- Methylnaphthalene	2- Methylnaphthalene	Naphthalene	Pyrene
7/13/2023	Background	-4	230713-PR_C-1W_SB18@4-8	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Background	-12	230713-PR_C-1W_SB18@8-12	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Background	-15	230713-PR_C-1W_SB18@12-15	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Background	-8	230713-PR_C-1W_SB20@4-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Background	-10	230713-PR_C-1W_SB20@8-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Background	-8	230713-PR_C-1W_SB19@4-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Background	-12	230713-PR_C-1W_SB19@8-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/13/2023	Background	-15	230713-PR_C-1W_SB19@12-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-8	230712-PR_C-1W_SB14@5-8	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-12	230712-PR_C-1W_SB14@8-12	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-14	230712-PR_C-1W_SB14@12-14	0.4	10.44	0.0680	4.01	6.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-18	230712-PR_C-1W_SB14@14-18	0.0	4.18	0.0604	1.85	2.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-14	230712-PR_C-1W_SB14@12-14	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-18	230712-PR_C-1W_SB14@14-18	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1455) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1450) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1515) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG (1520) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG (1440) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Orange Fill = Exceedance
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"NA" = Not Analyzed
mg/kg = milligrams per kilogram / parts per million

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Laboratory Results Summary Table - Backgrounds
Pinyon Ridge Federal C-1W

10/23/2023

					Soil Suitability for Reclamation				Metals (mg/kg [ppm])									
ECMC Soil Screening Levels																		
ECMC Table 915-1 Residential -->				NA	4	6	6-8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
Sample Date	Solid/Soil Source (Equipment) [Vault/Sump, Separator, Tank Battery, Dump Line, Pit, Cuttings, Background, etc.]	Depth - Z (feet) (NEGATIVE VALUE) below ground surface (bgs)	Sample ID	PID (ppm)	EC (Specific Conductance) (millimhos/centimeter) (by saturated paste method)	SAR (Sodium Adsorption Ratio) (calculation) (by saturated paste method)	pH (pH Units) (by saturated paste method)	Boron - Hot Water Soluble (mg/L)	Arsenic	Barium	Cadmium (mg/kg)	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
7/13/2023	Background	-4	230713-PR_C-1W_SB18@4-8	1.5	6.820	12.5	8.16	1.17	7.12	122	0.248	0.303	16.5	9.45	11.7	1.69	<0.500	44.7
7/13/2023	Background	-12	230713-PR_C-1W_SB18@8-12	1.3	8.510	8.15	7.97	0.808	14.3	142	0.651	0.453	19.6	12.3	11.5	0.996	0.109	50.3
7/13/2023	Background	-15	230713-PR_C-1W_SB18@12-15	0.6	2.740	18.8	8.79	0.46	14.2	37.1	<1.00	0.309	13.0	8.86	3.89	1.810	<0.500	52.4
7/13/2023	Background	-8	230713-PR_C-1W_SB20@4-8	NA	1.850	17.0	8.58	0.693	7.52	62.3	0.396	<1.00	26.8	12.5	18.3	0.813	0.110	65.7
7/13/2023	Background	-10	230713-PR_C-1W_SB20@8-10	NA	2.490	9.94	8.09	0.726	13.9	129	0.425	<1.00	28.0	16.2	17.3	1.14	0.116	72.7
7/13/2023	Background	-8	230713-PR_C-1W_SB19@4-8	NA	1.380	5.46	8.03	0.515	4.90	117	0.284	0.289	20.6	10.6	14.7	0.612	0.0987	53.2
7/13/2023	Background	-12	230713-PR_C-1W_SB19@8-12	NA	4.560	3.07	7.84	0.936	4.75	149	0.488	<1.00	13.5	9.06	12.1	0.669	<0.500	40.1
7/13/2023	Background	-15	230713-PR_C-1W_SB19@12-15	NA	4.160	1.87	7.65	0.802	6.15	52.1	0.273	0.268	16.9	9.12	15.1	0.504	0.0912	49.2
7/12/2023	Background	-8	230712-PR_C-1W_SB14@5-8	1.0	0.284	4.72	9.00	0.437	8.34	79.0	0.453	<1.00	16.4	10.3	13.1	0.604	<0.500	46.6
7/12/2023	Background	-12	230712-PR_C-1W_SB14@8-12	0.0	1.980	11.2	8.35	0.700	6.82	92.3	0.350	0.335	21.6	13.0	17.8	0.670	0.0916	68.7
7/12/2023	Background	-14	230712-PR_C-1W_SB14@12-14	0.4	NA	9.18	8.11	NA	7.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-18	230712-PR_C-1W_SB14@14-18	0.0	NA	10.1	8.20	NA	11.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/12/2023	Background	-14	230712-PR_C-1W_SB14@12-14	0.4	1.030	NA	8.09	0.462	7.05	213	0.452	<1.00	17.8	11.3	15.4	0.733	0.112	53.5
7/12/2023	Background	-18	230712-PR_C-1W_SB14@14-18	0.0	1.220	NA	8.19	0.418	12.4	69.0	0.461	0.319	31.4	15.8	19.9	0.952	0.177	73.7
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1455) @ 1'	NA	NA	4.26	8.75	NA	8.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1450) @ 1'	NA	NA	0.108	8.33	NA	3.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1515) @ 1'	NA	NA	0.0659	8.29	NA	4.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG (1520) @ 1'	NA	NA	0.0772	8.37	NA	5.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG (1440) @ 1'	NA	NA	0.0894	8.19	NA	8.16	NA	NA	NA	NA	NA	NA	NA	NA	NA

Confluence Compliance Companies, LLC
info@confluence-cc.com

Orange Fill = Exceedance
Dark Gray Italics = Below Reporting Detection Limit (RDL)
"NA" = Not Analyzed
mg/kg = milligrams per kilogram / parts per million

CONFLUENCE

Laboratory Results Summary Table - Water
Pinyon Ridge Federal C-1W

10/23/2023

ECMC Allowable Concentration (915-Groundwater)		Organic Compounds (µg/L)							Inorganics (mg/L)			ECMC Standard Not Applicable										
		5	560-1,000	700	1,400-10,000	140	67	67	1.25xBG	250 or 1.25xBG	250 or 1.25xBG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample Date	Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	TDS 1.25 x background	Chlorides 1.25 x background	Sulfates 1.25 x background	Arsenic, dissolved	Barium, dissolved	Boron	Cadmium, dissolved	Chromium (VI)	Copper, dissolved	Lead, dissolved	Nickel	pH	Selenium, dissolved	Silver, dissolved	Zinc
10/3/23	231003_PINYONRIDGE_PW	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*<0.00500*	**72.9**	**26.5**	*<0.00500*	*<0.000500*	**0.0621**	**0.00440**	*<0.0100*	**6.46**	*<0.0100*	*<0.00500*	*<0.100*
5/10/22	220510-PREFCIW-WW	**6.73**	**6.01**	**0.243**	**2.35**	*<2.50*	**0.317**	**0.0845**	**46000**	**27400**	*<500*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
5/10/22	220510-PREFCIW-OFLOW POND	*<0.00100*	*<0.00100*	*<0.00100*	*<0.00300*	*<0.00500*	*<0.00100*	*<0.00100*	**600**	**18.1**	**233**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
5/10/22	220510-PREFCIW-STOCK	*<0.00100*	*<0.00100*	*<0.00100*	*<0.00300*	*<0.00500*	*<0.00100*	*<0.00100*	**521**	**1.33**	**1.28**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

Blue Fill = Exceedance
Italics = Below Reporting Detection Limit (RDL)
"NA" = Not Analyzed
µg/L = micrograms per liter
mg/L = milligrams per liter

Confluence Compliance Companies, LLC
info@confluence-cc.com

ANALYTICAL REPORT

August 22, 2023

Revised Report

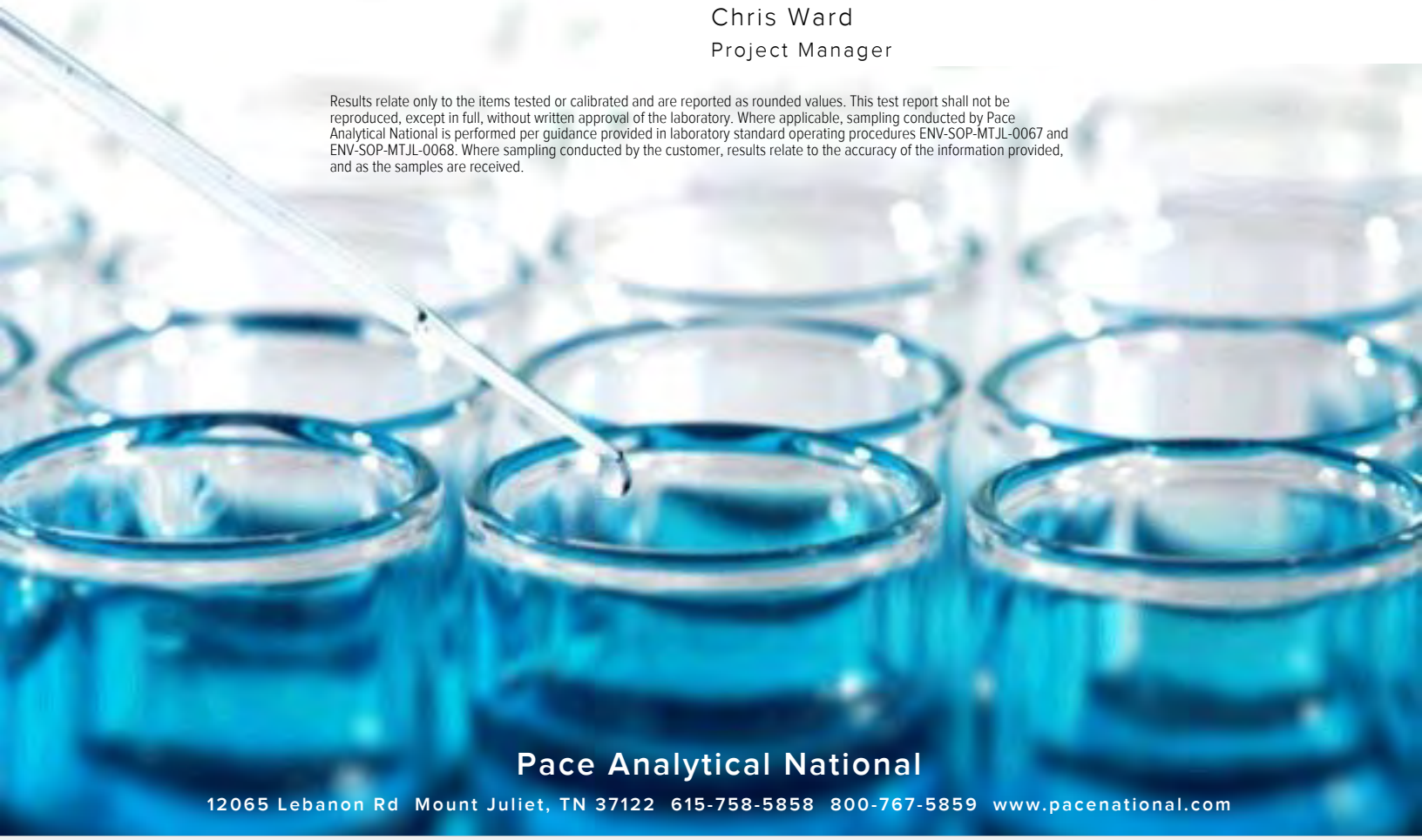
Anschutz Exploration Corporation

Sample Delivery Group:	L1635892
Samples Received:	07/15/2023
Project Number:	
Description:	Tank Battery Release

Report To: Schuyler Hamilton
555 17th Street Suite 2400
Denver, CO 80202

Entire Report Reviewed By:

Chris Ward
Project Manager



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

TABLE OF CONTENTS

SAMPLE SUMMARY

230713-PR_C-1W_SB17@0-4 L1635892-01 Solid

Collected by: Alex Slorby
Collected date/time: 07/13/23 09:05
Received date/time: 07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096651	1	07/25/23 18:16	07/25/23 18:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097668	1	07/19/23 10:51	07/19/23 13:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097070	5	07/18/23 16:19	07/21/23 19:29	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2097676	1	07/19/23 09:02	07/19/23 16:22	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098204	1	07/21/23 10:16	07/22/23 11:52	JAS	Mt. Juliet, TN

230713-PR_C-1W_SB17@8-11 L1635892-02 Solid

Collected by: Alex Slorby
Collected date/time: 07/13/23 09:20
Received date/time: 07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096651	1	07/25/23 18:19	07/25/23 18:19	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097668	1	07/19/23 10:51	07/19/23 13:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097070	5	07/18/23 16:19	07/21/23 19:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2097676	1	07/19/23 09:02	07/19/23 16:45	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098204	1	07/21/23 10:16	07/22/23 11:39	JAS	Mt. Juliet, TN

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: 07/26/23 11:35

Project Narrative

Report reissued 8/22 for corrected client info

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.91		1	07/25/2023 18:16	WG2096651

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.89	T8	1	07/19/2023 13:00	WG2097668

Sample Narrative:

L1635892-01 WG2097668: 8.89 at 22.1C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.72		0.100	1.00	5	07/21/2023 19:29	WG2097070

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0614	B J	0.0217	0.100	1	07/19/2023 16:22	WG2097676
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*07/19/2023 16:22*	WG2097676

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.44		1.61	4.00	1	07/22/2023 11:52	WG2098204
C28-C36 Motor Oil Range	2.45	J	0.274	4.00	1	07/22/2023 11:52	WG2098204
(S) o-Terphenyl	*40.7*			*18.0-148*		*07/22/2023 11:52*	WG2098204

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.5		1	07/25/2023 18:19	WG2096651

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.48	T8	1	07/19/2023 13:00	WG2097668

Sample Narrative:

L1635892-02 WG2097668: 7.48 at 21.9C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.32		0.100	1.00	5	07/21/2023 19:33	WG2097070

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0457	B J	0.0217	0.100	1	07/19/2023 16:45	WG2097676
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*07/19/2023 16:45*	WG2097676

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.90	J	1.61	4.00	1	07/22/2023 11:39	WG2098204
C28-C36 Motor Oil Range	2.01	J	0.274	4.00	1	07/22/2023 11:39	WG2098204
(S) o-Terphenyl	*40.1*			*18.0-148*		*07/22/2023 11:39*	WG2098204

L1635933-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635933-01 07/19/23 13:00 • (DUP) R3950290-2 07/19/23 13:00

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.64	7.66	1	0.261		1

Sample Narrative:

OS: 7.64 at 21.4C

DUP: 7.66 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3950290-1 07/19/23 13:00

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

Sample Narrative:

LCS: 10 at 21C

Method Blank (MB)

(MB) R3951471-1 07/21/23 18:42

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

Laboratory Control Sample (LCS)

(LCS) R3951471-2 07/21/23 18:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	89.1	89.1	80.0-120	

L1635890-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635890-01 07/21/23 18:49 • (MS) R3951471-5 07/21/23 18:59 • (MSD) R3951471-6 07/21/23 19:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.13	84.6	84.2	81.4	81.1	5	75.0-125			0.435	20

Method Blank (MB)

(MB) R3951152-2 07/19/23 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0261	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3951152-1 07/19/23 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.35	79.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

Method Blank (MB)

(MB) R3951597-1 07/22/23 09:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*49.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3951597-2 07/22/23 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.6	65.2	50.0-150	
(S) o-Terphenyl			*64.1*	*18.0-148*	

L1635647-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635647-06 07/22/23 14:43 • (MS) R3951597-3 07/22/23 14:56 • (MSD) R3951597-4 07/22/23 15:09

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	48.0	29600	13900	25100	0.000	0.000	500	50.0-150	V	J3 V	57.4	20
(S) o-Terphenyl					*0.000*	*0.000*		*18.0-148*	J7	J7		

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

E182

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Work... Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: ~~Caerus Oil and Gas LLC~~ Aschute

Billing Information: Info on file

Address: Info on file

Report To: Chris McKisson

Email To: chris.mckisson@confluence-cc.com

Copy To: remediation@confluence-cc.com

Site Collection Info/Address:

Customer Project Name/Number: Tank Battery Release

State: CO / County/City: Rio Blanco

Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Phone:
Email:

Site/Facility ID #: Pinyon Ridge Federal C-1W

Compliance Monitoring? [ ] Yes [X] No

Collected By (print): Alex Slorby

Purchase Order # :
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): Alex Slorby

Turnaround Date Required: Standard
Turnaround

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal:
[ ] Dispose as appropriate
[ ] Return
[ ] Archive: _____
[ ] Hold: _____

Rush: (Expedite Charges Apply)
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day
[ ] 4 Day [ ] 5 Day

Field Filtered (if applicable):
[ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	TPH (ORO, GRO, DRO)	pH, SAR	Arsenic	LAB USE ONLY Lab Sample # / Comments
230713-PR_C-1W_SB17@0-4	SL	G			7/13/2023	0905		3	G/P	X	X	X	L1635592 -01
230713-PR_C-1W_SB17@8-11	SL	G			7/13/2023	0920		3	G/P	X	X	X	-02

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N
If Applicable
VOA Zero Headspace: Y N
Pres.Correct/Check: Y N
5.6 + 0 = 5.6

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:

	Date/Time:		Date/Time:
Relinquished by/Company: (Signature) Alex Slorby	7/14/2023 1600	Received by/Company: (Signature)	
Relinquished by/Company: (Signature)	7/14/23 1700	Received by/Company: (Signature)	
Relinquished by/Company: (Signature)		Received by/Company: (Signature) Hana Mitchell	7.15.23

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

09147

ANALYTICAL REPORT

September 01, 2023

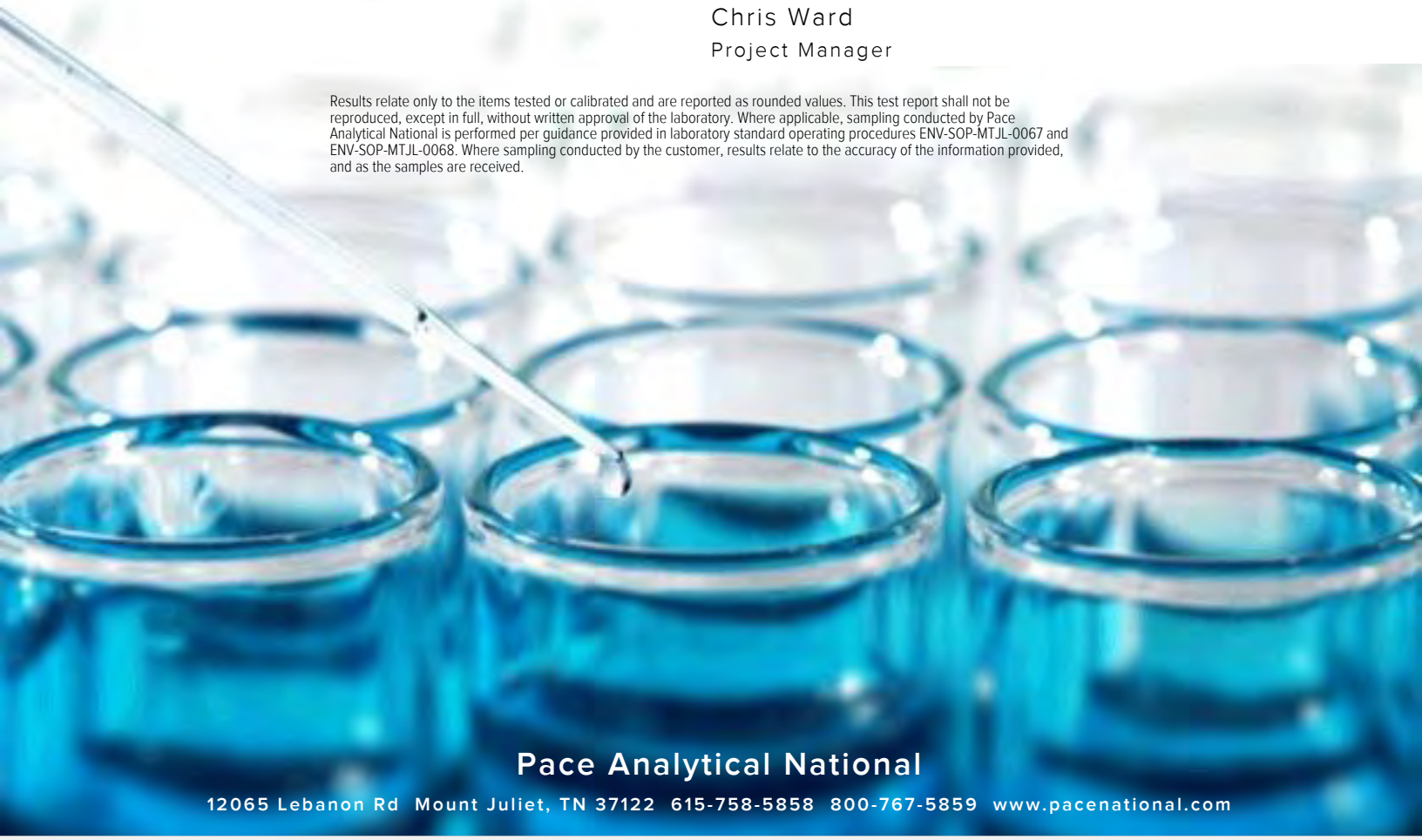
Anschutz Exploration Corporation

Sample Delivery Group:	L1648717
Samples Received:	07/14/2023
Project Number:	315979
Description:	AECO05-Pinyon Ridge Fed C-1W

Report To: Schuyler Hamilton
555 17th Street Suite 2400
Denver, CO 80202

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

SAMPLE SUMMARY

230712-PR_C-1W_SB14@12-14 L1648717-01 Solid

Collected by: Alex Slorby
Collected date/time: 07/12/23 13:45
Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2119912	1	08/24/23 00:20	08/25/23 11:57	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2121252	1	08/26/23 15:00	08/26/23 15:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2121183	1	08/26/23 07:25	08/26/23 12:18	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2124219	1	08/31/23 16:01	09/01/23 10:05	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2123590	20	08/30/23 12:17	08/30/23 23:41	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2123590	5	08/30/23 12:17	08/30/23 22:09	LD	Mt. Juliet, TN

230712-PR_C-1W_SB14@14-18 L1648717-02 Solid

Collected by: Alex Slorby
Collected date/time: 07/12/23 15:00
Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2119912	1	08/24/23 00:20	08/25/23 12:06	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2121252	1	08/26/23 15:00	08/26/23 15:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2121183	1	08/26/23 07:25	08/26/23 12:18	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2124219	1	08/31/23 16:01	09/01/23 10:07	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2123590	5	08/30/23 12:17	08/30/23 22:49	LD	Mt. Juliet, TN

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

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	08/25/2023 11:57	WG2119912

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.09	T8	1	08/26/2023 15:45	WG2121252

Sample Narrative:

L1648717-01 WG2121252: 8.09 at 23.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1030	T8	10.0	1	08/26/2023 12:18	WG2121183

Sample Narrative:

L1648717-01 WG2121183: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.462		0.0167	0.200	1	09/01/2023 10:05	WG2124219

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.05		0.100	1.00	5	08/30/2023 22:09	WG2123590
Barium	213		0.608	10.0	20	08/30/2023 23:41	WG2123590
Cadmium	0.452	J	0.0855	1.00	5	08/30/2023 22:09	WG2123590
Copper	17.8		0.132	5.00	5	08/30/2023 22:09	WG2123590
Lead	11.3		0.0990	2.00	5	08/30/2023 22:09	WG2123590
Nickel	15.4		0.197	2.50	5	08/30/2023 22:09	WG2123590
Selenium	0.733	J O1	0.180	2.50	5	08/30/2023 22:09	WG2123590
Silver	0.112	J	0.0865	0.500	5	08/30/2023 22:09	WG2123590
Zinc	53.5	O1	0.740	25.0	5	08/30/2023 22:09	WG2123590

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.319	J	0.255	1.00	1	08/25/2023 12:06	WG2119912

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	T8	1	08/26/2023 15:45	WG2121252

Sample Narrative:
L1648717-02 WG2121252: 8.19 at 23.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1220	T8	10.0	1	08/26/2023 12:18	WG2121183

Sample Narrative:
L1648717-02 WG2121183: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.418		0.0167	0.200	1	09/01/2023 10:07	WG2124219

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.4		0.100	1.00	5	08/30/2023 22:49	WG2123590
Barium	69.0		0.152	2.50	5	08/30/2023 22:49	WG2123590
Cadmium	0.461	J	0.0855	1.00	5	08/30/2023 22:49	WG2123590
Copper	31.4		0.132	5.00	5	08/30/2023 22:49	WG2123590
Lead	15.8		0.0990	2.00	5	08/30/2023 22:49	WG2123590
Nickel	19.9		0.197	2.50	5	08/30/2023 22:49	WG2123590
Selenium	0.952	J	0.180	2.50	5	08/30/2023 22:49	WG2123590
Silver	0.177	J	0.0865	0.500	5	08/30/2023 22:49	WG2123590
Zinc	73.7		0.740	25.0	5	08/30/2023 22:49	WG2123590

QUALITY CONTROL SUMMARY

L1648717-01,02

Method Blank (MB)

(MB) R3965626-1 08/25/23 11:39

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

L1648779-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1648779-01 08/25/23 12:23 • (DUP) R3965626-3 08/25/23 12:32

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

L1648827-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1648827-01 08/25/23 15:31 • (DUP) R3965626-8 08/25/23 15:40

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

Laboratory Control Sample (LCS)

(LCS) R3965626-2 08/25/23 11:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	11.0	110	80.0-120	

L1648784-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1648784-01 08/25/23 13:26 • (MS) R3965626-4 08/25/23 13:35 • (MSD) R3965626-5 08/25/23 13:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	U	21.8	22.8	109	114	1	75.0-125			4.45	20

L1648784-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1648784-01 08/25/23 13:26 • (MS) R3965626-6 08/25/23 13:53

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	638	U	1110	174	50	75.0-125	J5

L1648647-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1648647-02 08/26/23 15:45 • (DUP) R3965795-2 08/26/23 15:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.30	7.36	1	0.819		1

Sample Narrative:

OS: 7.3 at 23.8C

DUP: 7.36 at 23.9C

L1648785-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1648785-01 08/26/23 15:45 • (DUP) R3965795-3 08/26/23 15:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	8.02	8.02	1	0.000		1

Sample Narrative:

OS: 8.02 at 22.9C

DUP: 8.02 at 23.1C

Laboratory Control Sample (LCS)

(LCS) R3965795-1 08/26/23 15:45

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

Sample Narrative:

LCS: 10 at 23.6C

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

Method Blank (MB)

(MB) R3965763-1 08/26/23 12:18

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

Sample Narrative:
BLANK: at 25C

L1649401-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1649401-04 08/26/23 12:18 • (DUP) R3965763-3 08/26/23 12:18

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	511	515	1	0.780		20

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

L1649406-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1649406-04 08/26/23 12:18 • (DUP) R3965763-4 08/26/23 12:18

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	186	185	1	0.647		20

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

Laboratory Control Sample (LCS)

(LCS) R3965763-2 08/26/23 12:18

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	729	99.6	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R3968354-1 09/01/23 09:57

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

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

(LCS) R3968354-2 09/01/23 09:59 • (LCSD) R3968354-3 09/01/23 10:02

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	1.05	1.06	105	106	80.0-120			0.990	20

QUALITY CONTROL SUMMARY

L1648717-01,02

Method Blank (MB)

(MB) R3967541-1 08/30/23 22:02

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

Laboratory Control Sample (LCS)

(LCS) R3967541-2 08/30/23 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.5	96.5	80.0-120	
Barium	100	92.3	92.3	80.0-120	
Cadmium	100	95.6	95.6	80.0-120	
Copper	100	90.6	90.6	80.0-120	
Lead	100	91.6	91.6	80.0-120	
Nickel	100	95.0	95.0	80.0-120	
Selenium	100	99.7	99.7	80.0-120	
Silver	20.0	19.6	97.8	80.0-120	
Zinc	100	92.9	92.9	80.0-120	

L1648717-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1648717-01 08/30/23 22:09 • (MS) R3967541-5 08/30/23 22:19 • (MSD) R3967541-6 08/30/23 22:22

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	7.05	110	104	103	96.8	5	75.0-125			5.47	20
Barium	100	212	290	236	78.0	24.0	5	75.0-125	E	E J3 J6	20.6	20
Cadmium	100	0.452	112	103	112	102	5	75.0-125			8.53	20
Copper	100	17.8	122	110	104	91.8	5	75.0-125			10.9	20
Lead	100	11.3	119	109	108	97.7	5	75.0-125			8.78	20
Nickel	100	15.4	115	110	100	94.6	5	75.0-125			4.79	20
Selenium	100	0.733	118	107	118	106	5	75.0-125			10.1	20
Silver	20.0	0.112	23.0	20.7	115	103	5	75.0-125			10.5	20
Zinc	100	53.5	151	151	97.3	97.3	5	75.0-125			0.00285	20

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

Qualifier	Description
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.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKissen, remediation@confluence-cc.com	Email To: Info on file
Copy To: same	Site Collection Info/Address: NESE Sec. 21 T39N R7W 40.21620/-108.276390
Customer Project Name/Number: AECOOS-Pinyon Ridge Fed C-1W (315979)	State: / County/City: / Time Zone Collected: [ ]PT [✓]MT [ ]CT [ ]ET
Phone: Email: On File	Site/Facility ID #: same as above
Collected By (print): Alex Slosky	Purchase Order #: Quote #:
Collected By (signature): AS	Turnaround Date Required:
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [✓] 5 Day (Expedite Charges Apply)
Compliance Monitoring? [ ] Yes [ ] No	DW PWS ID #: DW Location Code:
Immediately Packed on Ice: [✓] Yes [ ] No	Field Filtered (if applicable): [ ] Yes [✓] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: TPH; SAR, pH, EC, Boron, S.S.; Arsenic; COGCC Table 915-1 Metals; EC, Boron

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	Y N (NA)
Collector Signature Present	(Y) N NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH	SAR, pH, EC, Boron, S.S.	Arsenic	COGCC Table 915-1 Metals	EC, Boron	Lab Sample # / Comments
230712-PR_C-1W_SB11@4-8	SL		7/12	10:15				2	X	X	X			L16559 99 8/28/23
230712-PR_C-1W_SB11@16-18	SL			10:35				2	X	X	X			-01
230712-PR_C-1W_SB12@4-8	SL			11:25				2	X	X	X			-02
230712-PR_C-1W_SB12@12-14	SL			11:40				2	X	X	X			-03
230712-PR_C-1W_SB13@4-8	SL			12:20				2	X	X	X			-04
230712-PR_C-1W_SB13@8-12	SL			12:30				2	X	X	X			-05
230712-PR_C-1W_SB14@5-8	SL			13:20				2		X		X	X	-06
230712-PR_C-1W_SB14@8-12	SL			13:30				2		X		X	X	-07
230712-PR_C-1W_SB14@12-14	SL			13:45				2	X	X	X			-08
230712-PR_C-1W_SB14@14-18	SL			15:00				2	X	X	X			-09 L16VB717-01 -10 -02

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 6426 8306 6694

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments: GRAB 0.7 to 0.7

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Relinquished by/Company: (Signature) AS	Date/Time: 7/13/23 -1300	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time: 7/13/23 1600	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) Caleb Tapp	Date/Time: 7/14/23 09:00

L-094

Acctnum:
Template:
Prelogin:
PM:
PB:

Non Conformance(s): YES / NO

Page: 1 of: 2

L1635599-09, -10

R5

Please relog -09 and -10 to a new SDG for
PH
SPCON
AGG
ASG
BAG
CDG
CR6IC
CUG
HWBICP
NIG
PBG
SAR
SEG
ZNG

Thanks,
[Description: ESC Leaf for Email Signature Line] Chris Ward (He/him/his)
Project Manager2
Pace Analytical National
12065 Lebanon Road | Mt. Juliet, TN 37122
Chris.ward@pacelabs.com<mailto:Chris.ward@pacelabs.com> |
www.pacenational.com<http://www.pacenational.com/>
615.773.9712

MAKE YOUR PAYMENTS ONLINE<https://login.unitedtranzactions.com/obp/pace_analytical>

Time estimate: oh **Time spent:** oh

Members

CW Chris Ward (responsible)

ANALYTICAL REPORT

August 17, 2023

Revised Report

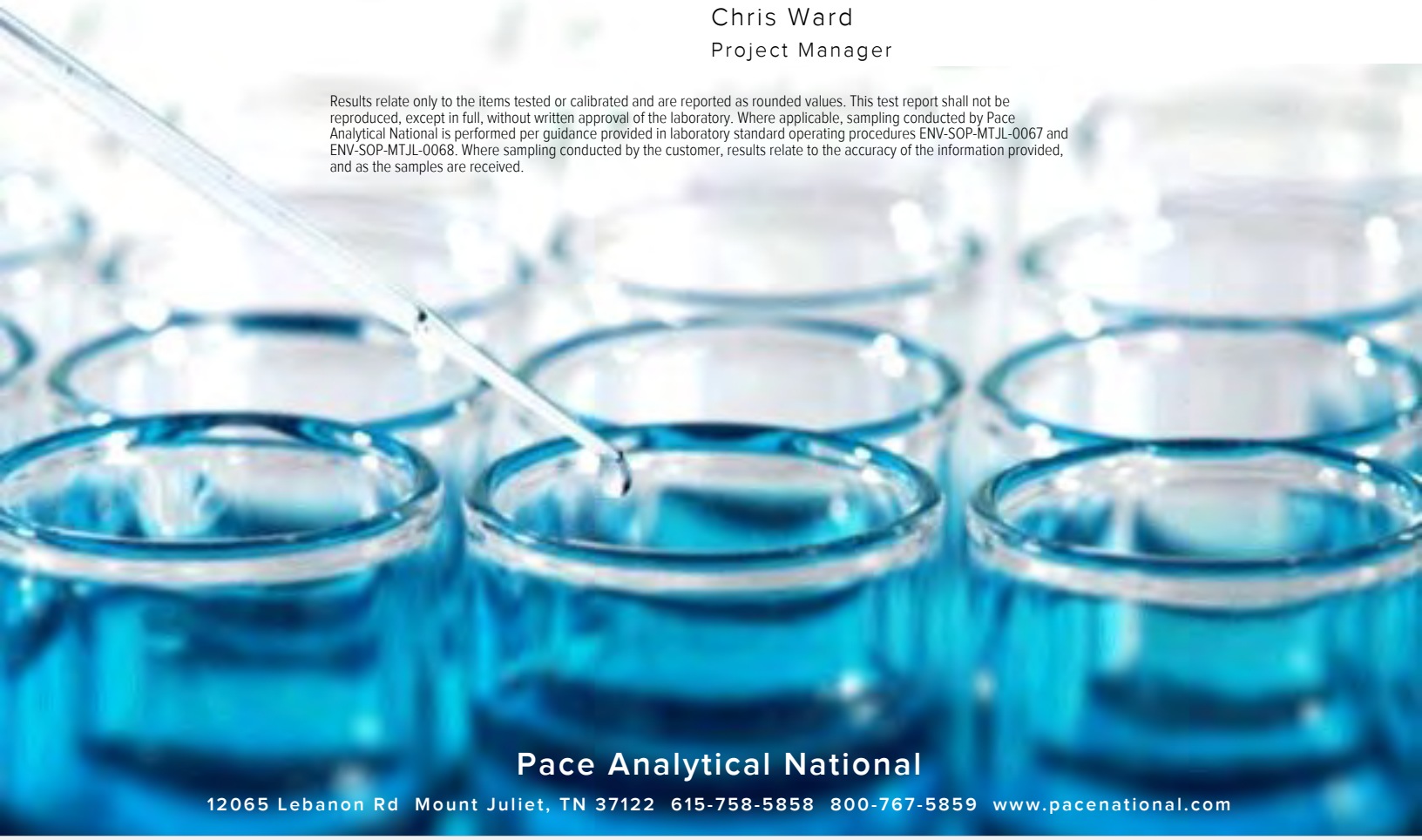
Anschutz Exploration Corporation

Sample Delivery Group:	L1635599
Samples Received:	07/14/2023
Project Number:	315979
Description:	AECO05-Pinyon Ridge Fed C-1W

Report To: Schuyler Hamilton
555 17th Street Suite 2400
Denver, CO 80202

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

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230712-PR_C-1W_SB11@4-8 L1635599-01 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 10:15 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095327	1	07/25/23 16:59	07/25/23 16:59	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2097190	100	07/17/23 15:04	07/19/23 01:35	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2097491	1	07/20/23 00:02	07/20/23 11:48	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB11@16-18 L1635599-02 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 10:35 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095327	1	07/25/23 17:02	07/25/23 17:02	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095590	5	07/15/23 16:58	07/17/23 12:51	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2097196	1	07/17/23 15:04	07/19/23 12:53	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2097491	1	07/20/23 00:02	07/20/23 10:42	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB12@4-8 L1635599-03 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 11:25 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095327	1	07/25/23 17:05	07/25/23 17:05	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095590	5	07/15/23 16:58	07/17/23 12:54	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 03:18	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2097491	1	07/20/23 00:02	07/20/23 10:55	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB12@12-14 L1635599-04 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 11:40 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095327	1	07/25/23 17:08	07/25/23 17:08	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095590	5	07/15/23 16:58	07/17/23 14:18	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 03:41	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2097491	1	07/20/23 00:02	07/20/23 10:02	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB13@4-8 L1635599-05 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 12:20 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095327	1	07/25/23 17:16	07/25/23 17:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 04:04	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2097491	1	07/20/23 00:02	07/20/23 10:15	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB13@8-12 L1635599-06 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 12:30 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:19	07/23/23 16:19	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:44	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 04:28	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2097491	1	07/20/23 00:02	07/20/23 15:59	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB14@5-8 L1635599-07 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 13:20 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:22	07/23/23 16:22	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095093	1	07/16/23 21:26	07/17/23 14:44	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096073	1	07/17/23 10:32	07/17/23 14:32	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2097897	1	08/02/23 13:28	08/02/23 22:30	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:47	JPD	Mt. Juliet, TN

230712-PR_C-1W_SB14@8-12 L1635599-08 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 13:30 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:25	07/23/23 16:25	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095093	1	07/16/23 21:26	07/17/23 14:49	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096073	1	07/17/23 10:32	07/17/23 14:32	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2097897	1	08/02/23 13:28	08/02/23 22:33	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:51	JPD	Mt. Juliet, TN

230712-PR_C-1W_SB14@12-14 L1635599-09 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 13:45 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:27	07/23/23 16:27	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 20:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 04:51	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2097491	1	07/20/23 00:02	07/20/23 11:08	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB14@14-18 L1635599-10 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 15:00 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:30	07/23/23 16:30	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 20:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 05:14	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098203	1	07/21/23 09:04	07/21/23 14:22	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB15@0-4 L1635599-11 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 14:35 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:33	07/23/23 16:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 20:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 05:37	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098203	1	07/21/23 09:04	07/21/23 14:35	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB15@8-11 L1635599-12 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 15:05 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:36	07/23/23 16:36	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2096058	1	07/17/23 09:05	07/17/23 12:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 20:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 06:00	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098203	1	07/21/23 09:04	07/21/23 14:10	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB16@0-4 L1635599-13 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 15:10 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:38	07/23/23 16:38	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2096058	1	07/17/23 09:05	07/17/23 12:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 20:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 06:23	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098203	1	07/21/23 09:04	07/21/23 15:02	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB16@4-8 L1635599-14 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 15:20 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:41	07/23/23 16:41	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2096058	1	07/17/23 09:05	07/17/23 12:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 20:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 06:46	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098203	1	07/21/23 09:04	07/21/23 14:10	JAS	Mt. Juliet, TN

230712-PR_C-1W_SB16@8-11 L1635599-15 Solid

Collected by: Alex Slorby | Collected date/time: 07/12/23 15:30 | Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095328	1	07/23/23 16:49	07/23/23 16:49	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2096058	1	07/17/23 09:05	07/17/23 12:00	SJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 18:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 15:04	07/18/23 07:09	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098203	1	07/21/23 09:04	07/21/23 14:22	JAS	Mt. Juliet, TN

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: 08/03/23 15:10

Project Narrative

Changed to correct project -SC

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	11.8		1	07/25/2023 16:59	WG2095327

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.30	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-01 WG2095847: 8.3 at 21.8C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.93		0.100	1.00	5	07/18/2023 19:38	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	374		2.17	10.0	100	07/19/2023 01:35	WG2097190
(S) a,a,a-Trifluorotoluene(FID)	*91.5*			*77.0-120*		*07/19/2023 01:35*	WG2097190

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	37.4		1.61	4.00	1	07/20/2023 11:48	WG2097491
C28-C36 Motor Oil Range	17.1		0.274	4.00	1	07/20/2023 11:48	WG2097491
(S) o-Terphenyl	*40.3*			*18.0-148*		*07/20/2023 11:48*	WG2097491

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.70		1	07/25/2023 17:02	WG2095327

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.74	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-02 WG2095847: 7.74 at 21.6C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.78		0.100	1.00	5	07/17/2023 12:51	WG2095590

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0907	B J	0.0217	0.100	1	07/19/2023 12:53	WG2097196
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*77.0-120*		*07/19/2023 12:53*	WG2097196

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.15	J	1.61	4.00	1	07/20/2023 10:42	WG2097491
C28-C36 Motor Oil Range	1.79	B J	0.274	4.00	1	07/20/2023 10:42	WG2097491
(S) o-Terphenyl	*60.2*			*18.0-148*		*07/20/2023 10:42*	WG2097491

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	21.8		1	07/25/2023 17:05	WG2095327

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.61	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-03 WG2095847: 8.61 at 21.5C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.05		0.100	1.00	5	07/17/2023 12:54	WG2095590

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.160	B	0.0217	0.100	1	07/18/2023 03:18	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*		*07/18/2023 03:18*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.13	J	1.61	4.00	1	07/20/2023 10:55	WG2097491
C28-C36 Motor Oil Range	2.70	B J	0.274	4.00	1	07/20/2023 10:55	WG2097491
(S) o-Terphenyl	*43.3*			*18.0-148*		*07/20/2023 10:55*	WG2097491

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	11.6		1	07/25/2023 17:08	WG2095327

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.32	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-04 WG2095847: 8.32 at 21.5C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.86		0.100	1.00	5	07/17/2023 14:18	WG2095590

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.109	B	0.0217	0.100	1	07/18/2023 03:41	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*07/18/2023 03:41*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.70	J	1.61	4.00	1	07/20/2023 10:02	WG2097491
C28-C36 Motor Oil Range	3.65	B J	0.274	4.00	1	07/20/2023 10:02	WG2097491
(S) o-Terphenyl	*55.7*			*18.0-148*		*07/20/2023 10:02*	WG2097491

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	11.6		1	07/25/2023 17:16	WG2095327

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.29	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-05 WG2095847: 8.29 at 21.5C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.87		0.100	1.00	5	07/18/2023 19:41	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0798	B J	0.0217	0.100	1	07/18/2023 04:04	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*07/18/2023 04:04*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.65	J	1.61	4.00	1	07/20/2023 10:15	WG2097491
C28-C36 Motor Oil Range	6.31	B	0.274	4.00	1	07/20/2023 10:15	WG2097491
(S) o-Terphenyl	*62.8*			*18.0-148*		*07/20/2023 10:15*	WG2097491

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	13.7		1	07/23/2023 16:19	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.23	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-06 WG2095847: 8.23 at 21.5C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.96		0.100	1.00	5	07/18/2023 19:44	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0688	B J	0.0217	0.100	1	07/18/2023 04:28	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*07/18/2023 04:28*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.36	J	1.61	4.00	1	07/20/2023 15:59	WG2097491
C28-C36 Motor Oil Range	4.98	B	0.274	4.00	1	07/20/2023 15:59	WG2097491
(S) o-Terphenyl	*53.2*			*18.0-148*		*07/20/2023 15:59*	WG2097491

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.72		1	07/23/2023 16:22	WG2095328

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/17/2023 14:44	WG2095093

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.00	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-07 WG2095847: 9 at 21.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	284		10.0	1	07/17/2023 14:32	WG2096073

Sample Narrative:

L1635599-07 WG2096073: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.437		0.0167	0.200	1	08/02/2023 22:30	WG2097897

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.34		0.100	1.00	5	07/18/2023 19:47	WG2095886
Barium	79.0		0.152	2.50	5	07/18/2023 19:47	WG2095886
Cadmium	0.453	J	0.0855	1.00	5	07/18/2023 19:47	WG2095886
Copper	16.4		0.132	5.00	5	07/18/2023 19:47	WG2095886
Lead	10.3		0.0990	2.00	5	07/18/2023 19:47	WG2095886
Nickel	13.1		0.197	2.50	5	07/18/2023 19:47	WG2095886
Selenium	0.604	J	0.180	2.50	5	07/18/2023 19:47	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:47	WG2095886
Zinc	46.6		0.740	25.0	5	07/18/2023 19:47	WG2095886

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	11.2		1	07/23/2023 16:25	WG2095328

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.335	J	0.255	1.00	1	07/17/2023 14:49	WG2095093

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.35	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-08 WG2095847: 8.35 at 21.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1980		10.0	1	07/17/2023 14:32	WG2096073

Sample Narrative:

L1635599-08 WG2096073: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.700		0.0167	0.200	1	08/02/2023 22:33	WG2097897

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.82		0.100	1.00	5	07/18/2023 19:51	WG2095886
Barium	92.3		0.152	2.50	5	07/18/2023 19:51	WG2095886
Cadmium	0.350	J	0.0855	1.00	5	07/18/2023 19:51	WG2095886
Copper	21.6		0.132	5.00	5	07/18/2023 19:51	WG2095886
Lead	13.0		0.0990	2.00	5	07/18/2023 19:51	WG2095886
Nickel	17.8		0.197	2.50	5	07/18/2023 19:51	WG2095886
Selenium	0.670	J	0.180	2.50	5	07/18/2023 19:51	WG2095886
Silver	0.0916	J	0.0865	0.500	5	07/18/2023 19:51	WG2095886
Zinc	68.7		0.740	25.0	5	07/18/2023 19:51	WG2095886

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	9.18		1	07/23/2023 16:27	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.11	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-09 WG2095847: 8.11 at 21.7C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.02		0.100	1.00	5	07/18/2023 20:04	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0680	B J	0.0217	0.100	1	07/18/2023 04:51	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*07/18/2023 04:51*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.01		1.61	4.00	1	07/20/2023 11:08	WG2097491
C28-C36 Motor Oil Range	6.36	B	0.274	4.00	1	07/20/2023 11:08	WG2097491
(S) o-Terphenyl	*61.1*			*18.0-148*		*07/20/2023 11:08*	WG2097491

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.1		1	07/23/2023 16:30	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.20	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-10 WG2095847: 8.2 at 22.1C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	11.3		0.100	1.00	5	07/18/2023 20:07	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0604	B J	0.0217	0.100	1	07/18/2023 05:14	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*77.0-120*		*07/18/2023 05:14*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.85	J	1.61	4.00	1	07/21/2023 14:22	WG2098203
C28-C36 Motor Oil Range	2.27	J	0.274	4.00	1	07/21/2023 14:22	WG2098203
(S) o-Terphenyl	*65.0*			*18.0-148*		*07/21/2023 14:22*	WG2098203

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.46		1	07/23/2023 16:33	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.47	T8	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635599-11 WG2095847: 8.47 at 21.6C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.45		0.100	1.00	5	07/18/2023 20:11	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0846	B J	0.0217	0.100	1	07/18/2023 05:37	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*07/18/2023 05:37*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	148		1.61	4.00	1	07/21/2023 14:35	WG2098203
C28-C36 Motor Oil Range	134		0.274	4.00	1	07/21/2023 14:35	WG2098203
(S) o-Terphenyl	*61.2*			*18.0-148*		*07/21/2023 14:35*	WG2098203

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.50		1	07/23/2023 16:36	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.68	T8	1	07/17/2023 12:00	WG2096058

Sample Narrative:

L1635599-12 WG2096058: 9.68 at 22.5C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.40		0.100	1.00	5	07/18/2023 20:14	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0820	B J	0.0217	0.100	1	07/18/2023 06:00	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-120*		*07/18/2023 06:00*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	07/21/2023 14:10	WG2098203
C28-C36 Motor Oil Range	1.10	J	0.274	4.00	1	07/21/2023 14:10	WG2098203
(S) o-Terphenyl	*61.3*			*18.0-148*		*07/21/2023 14:10*	WG2098203

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.53		1	07/23/2023 16:38	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.80	T8	1	07/17/2023 12:00	WG2096058

Sample Narrative:

L1635599-13 WG2096058: 7.8 at 22.6C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.94		0.100	1.00	5	07/18/2023 20:17	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.05		0.0217	0.100	1	07/18/2023 06:23	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*77.0-120*		*07/18/2023 06:23*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	84.3		1.61	4.00	1	07/21/2023 15:02	WG2098203
C28-C36 Motor Oil Range	42.8		0.274	4.00	1	07/21/2023 15:02	WG2098203
(S) o-Terphenyl	*45.9*			*18.0-148*		*07/21/2023 15:02*	WG2098203

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.09		1	07/23/2023 16:41	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.93	T8	1	07/17/2023 12:00	WG2096058

Sample Narrative:

L1635599-14 WG2096058: 7.93 at 22.8C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.55		0.100	1.00	5	07/18/2023 20:20	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.102	B	0.0217	0.100	1	07/18/2023 06:46	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*95.5*			*77.0-120*		*07/18/2023 06:46*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.13	J	1.61	4.00	1	07/21/2023 14:10	WG2098203
C28-C36 Motor Oil Range	3.03	J	0.274	4.00	1	07/21/2023 14:10	WG2098203
(S) o-Terphenyl	*47.4*			*18.0-148*		*07/21/2023 14:10*	WG2098203

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.753		1	07/23/2023 16:49	WG2095328

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.91	T8	1	07/17/2023 12:00	WG2096058

Sample Narrative:

L1635599-15 WG2096058: 7.91 at 22.7C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	14.2		0.100	1.00	5	07/18/2023 18:48	WG2095886

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0898	B J	0.0217	0.100	1	07/18/2023 07:09	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*77.0-120*		*07/18/2023 07:09*	WG2096505

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.20	J	1.61	4.00	1	07/21/2023 14:22	WG2098203
C28-C36 Motor Oil Range	1.91	J	0.274	4.00	1	07/21/2023 14:22	WG2098203
(S) o-Terphenyl	*64.8*			*18.0-148*		*07/21/2023 14:22*	WG2098203

Method Blank (MB)

(MB) R3949459-1 07/17/23 12:05

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

L1635109-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1635109-02 07/17/23 12:23 • (DUP) R3949459-3 07/17/23 12:28

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.331	0.298	1	10.7	J	20

L1635112-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1635112-08 07/17/23 13:46 • (DUP) R3949459-8 07/17/23 13:52

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.598	0.599	1	0.0720	J	20

Laboratory Control Sample (LCS)

(LCS) R3949459-2 07/17/23 12:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	11.9	119	80.0-120	

L1635112-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635112-06 07/17/23 13:15 • (MS) R3949459-4 07/17/23 13:20 • (MSD) R3949459-5 07/17/23 13:25

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	0.385	20.6	21.7	101	106	1	75.0-125			4.97	20

L1635112-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1635112-06 07/17/23 13:15 • (MS) R3949459-6 07/17/23 13:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	643	0.385	866	135	50	75.0-125	J5

L1635593-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635593-01 07/17/23 10:00 • (DUP) R3949261-2 07/17/23 10:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.64	8.63	1	0.116		1

Sample Narrative:

OS: 8.64 at 22.2C

DUP: 8.63 at 22.2C

L1635599-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1635599-07 07/17/23 10:00 • (DUP) R3949261-3 07/17/23 10:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	9.00	9.04	1	0.443		1

Sample Narrative:

OS: 9 at 21.5C

DUP: 9.04 at 21.5C

Laboratory Control Sample (LCS)

(LCS) R3949261-1 07/17/23 10:00

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

Sample Narrative:

LCS: 10 at 21.6C

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

L1635599-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1635599-14 07/17/23 12:00 • (DUP) R3949332-2 07/17/23 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.93	7.92	1	0.126		1

Sample Narrative:

OS: 7.93 at 22.8C

DUP: 7.92 at 22.6C

L1635621-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635621-01 07/17/23 12:00 • (DUP) R3949332-3 07/17/23 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.86	7.89	1	0.381		1

Sample Narrative:

OS: 7.86 at 22.9C

DUP: 7.89 at 22.8C

Laboratory Control Sample (LCS)

(LCS) R3949332-1 07/17/23 12:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 22.9C

Method Blank (MB)

(MB) R3949387-1 07/17/23 14:32

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

Sample Narrative:
BLANK: at 25C

L1635618-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635618-01 07/17/23 14:32 • (DUP) R3949387-3 07/17/23 14:32

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	443	444	1	0.225		20

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

L1635618-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1635618-02 07/17/23 14:32 • (DUP) R3949387-4 07/17/23 14:32

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	214	213	1	0.328		20

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

Laboratory Control Sample (LCS)

(LCS) R3949387-2 07/17/23 14:32

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	743	102	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R3956276-1 08/02/23 22:22

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

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

(LCS) R3956276-2 08/02/23 22:24 • (LCSD) R3956276-3 08/02/23 22:27

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	1.08	1.18	108	118	80.0-120			8.66	20

Method Blank (MB)

(MB) R3949529-1 07/17/23 11:58

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

Laboratory Control Sample (LCS)

(LCS) R3949529-2 07/17/23 12:01

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

L1635796-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635796-02 07/17/23 12:04 • (MS) R3949529-5 07/17/23 12:14 • (MSD) R3949529-6 07/17/23 12:17

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	3.71	94.0	94.2	90.3	90.5	5	75.0-125			0.209	20

Method Blank (MB)

(MB) R3950058-1 07/18/23 18:42

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

Laboratory Control Sample (LCS)

(LCS) R3950058-2 07/18/23 18:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	98.5	98.5	80.0-120	
Barium	100	94.6	94.6	80.0-120	
Cadmium	100	102	102	80.0-120	
Copper	100	91.1	91.1	80.0-120	
Lead	100	90.5	90.5	80.0-120	
Nickel	100	98.8	98.8	80.0-120	
Selenium	100	103	103	80.0-120	
Silver	20.0	19.3	96.3	80.0-120	
Zinc	100	94.6	94.6	80.0-120	

L1635599-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635599-15 07/18/23 18:48 • (MS) R3950058-5 07/18/23 18:58 • (MSD) R3950058-6 07/18/23 19:01

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	14.2	97.2	109	83.0	94.9	5	75.0-125			11.6	20
Barium	100	73.9	182	226	108	152	5	75.0-125		J3 J5	21.9	20
Cadmium	100	0.619	95.9	102	95.2	101	5	75.0-125			6.31	20
Copper	100	34.4	115	123	80.9	88.6	5	75.0-125			6.48	20
Lead	100	17.3	104	110	86.4	93.1	5	75.0-125			6.22	20
Nickel	100	24.6	111	121	86.7	96.5	5	75.0-125			8.43	20
Selenium	100	1.12	95.0	102	93.9	101	5	75.0-125			7.36	20
Silver	20.0	0.109	17.7	18.9	88.1	93.9	5	75.0-125			6.28	20
Zinc	100	90.9	167	178	76.5	86.7	5	75.0-125			5.93	20

Method Blank (MB)

(MB) R3949862-2 07/17/23 23:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0245	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3949862-1 07/17/23 22:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.12	74.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*96.6*	*77.0-120*	

Method Blank (MB)

(MB) R3950734-3 07/19/23 00:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	1.36	J	0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	*91.0*			*77.0-120*

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

(LCS) R3950734-1 07/18/23 22:53 • (LCSD) R3950734-2 07/18/23 23:19

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	5.50	5.92	6.18	108	112	72.0-127			4.30	20
(S) a,a,a-Trifluorotoluene(FID)				*96.4*	*96.9*	*77.0-120*				

Method Blank (MB)

(MB) R3951150-2 07/19/23 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0261	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3951150-1 07/19/23 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.35	79.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

Method Blank (MB)

(MB) R3950845-1 07/20/23 09:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	1.01	J	0.274	4.00
(S) o-Terphenyl	*93.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3950845-2 07/20/23 09:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.5	87.0	50.0-150	
(S) o-Terphenyl			*75.1*	*18.0-148*	

L1635514-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635514-01 07/20/23 13:20 • (MS) R3950845-3 07/20/23 13:33 • (MSD) R3950845-4 07/20/23 13:47

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	49.7	14000	13600	11700	0.000	0.000	100	50.0-150	V	V	15.0	20
(S) o-Terphenyl					*0.000*	*0.000*		*18.0-148*	J7	J7		

Sample Narrative:

OS: Dilution and surrogate failure due to matrix interference.

MS: Dilution and surrogate failure due to matrix interference.

MSD: Dilution and surrogate failure due to matrix interference.

Method Blank (MB)

(MB) R3951457-1 07/21/23 13:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*79.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3951457-2 07/21/23 13:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.3	78.6	50.0-150	
(S) o-Terphenyl			*71.6*	*18.0-148*	

L1635599-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635599-15 07/21/23 14:22 • (MS) R3951457-3 07/21/23 14:35 • (MSD) R3951457-4 07/21/23 14:49

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	48.6	3.20	36.3	37.1	68.1	70.3	1	50.0-150			2.18	20
(S) o-Terphenyl					*52.2*	*55.0*		*18.0-148*				

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson, remediation@confluence-cc.com	Email To: Info on file
Copy To: same	Site Collection Info/Address: NESE Sec. 21 T19S R97W 40.212620/-108.276390
Customer Project Name/Number: AECOOS-Pinyon Ridge Fed C-1W (315979)	State: / County/City: Time Zone Collected: [ ] PT [✓] MT [ ] CT [ ] ET
Phone: Email: On File	Site/Facility ID #: same as above
Collected By (print): Alex Slosby	Purchase Order #: Quote #:
Collected By (signature): AS	Turnaround Date Required:
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [✓] 5 Day (Expedite Charges Apply)
Compliance Monitoring? [ ] Yes [ ] No	DW PWS ID #: DW Location Code:
Immediately Packed on Ice: [✓] Yes [ ] No	Field Filtered (if applicable): [ ] Yes [✓] No Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: TPH	SAR, pH, EC, Boron	Arsenic	COGCC Table 915-1 Metals	EC, Boron	Lab Profile/Line: Lab Sample # / Comments: L1635599
230712-PR_C-1W_SB1@4-8	SL		7/12	10:15				2	X	X	X			-01
230712-PR_C-1W_SB1@16-18	SL			10:35				2	X	X	X			-02
230712-PR_C-1W_SB2@4-8	SL			11:25				2	X	X	X			-03
230712-PR_C-1W_SB2@12-14	SL			11:40				2	X	X	X			-04
230712-PR_C-1W_SB3@4-8	SL			12:20				2	X	X	X			-05
230712-PR_C-1W_SB3@8-12	SL			12:30				2	X	X	X			-06
230712-PR_C-1W_SB4@5-8	SL			13:20				2		X		X	X	-07
230712-PR_C-1W_SB4@8-12	SL			13:30				2		X		X	X	-08
230712-PR_C-1W_SB4@12-14	SL			13:45				2	X	X	X			-09
230712-PR_C-1W_SB4@14-18	SL			15:00				2	X	X	X			-10

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 6426 8306 6694

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____oC

Cooler 1 Therm Corr. Factor: _____oC

Cooler 1 Corrected Temp: _____oC

Comments: GBAG 0.7 to 0.7

Relinquished by/Company: (Signature) AS	Date/Time: 7/13/23 1300	Received by/Company: (Signature)	Date/Time:	L-094
Relinquished by/Company: (Signature)	Date/Time: 7/13/23 1600	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) Caleb Tapp	Date/Time: 7/14/23 09:00	PM: PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: ON FILE
Address: ON FILE	
Report To: Chris McKisson	Email To: ON FILE
Copy To: remediation@confluence-cc.com	Site Collection Info/Address: See pg. 1
Customer Project Name/Number: AEC0005-Pinyon Ridge Fed C-1W(315979)	State: / County/City: / Time Zone Collected: [ ] PT [✓] MT [ ] CT [ ] ET
Phone: Email: ON FILE	Site/Facility ID #: same as above
Collected By (print): Alex Slorby	Purchase Order #: Quote #:
Collected By (signature): A.S.	Turnaround Date Required:
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [✓] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No	Container Preservative Type ** / Lab Project Manager:
DW PWS ID #: DW Location Code:	
Immediately Packed on Ice: [✓] Yes [ ] No	
Field Filtered (if applicable): [ ] Yes [✓] No Analysis: _____	

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH	SAR, pH	Arsenic
2307 12-PR_C-1W_SB15@0-4	SL		7/12/23	14:35				2	X	X	X
2307 12-PR_C-1W_SB15@8-11	SL			15:05				2	X	X	X
2307 12-PR_C-1W_SB16@0-4	SL			15:10				2	X	X	X
2307 12-PR_C-1W_SB16@4-8	SL			15:20				2	X	X	X
2307 12-PR_C-1W_SB16@8-11	SL			15:30				2	X	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:
L1635599
-11
-12
-13
-14
-15

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 6426 8306 6694

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments: GBK6 0.7 to =0.1

Relinquished by/Company: (Signature) A.S.	Date/Time: 7/13/23-13:00	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time: 7/13/23 1600	Received by/Company: (Signature)	Date/Time:	Table #: Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) Caleb Tapp	Date/Time: 7/14/23 09:00	

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Confluence	Billing Information: Confluence Compliance Companies
Address: ON FILE	
Report To: CHRIS MCKISSON	Email To: CHRIS.MCKISSON@CONFLUENCE-CC.COM
Copy To: REMEDIATION@CONFLUENCE-CC.COM	Site Collection Info/Address: NESE Sec. 21 3N97W 40.212620/-108.276390
Customer Project Name/Number: AEC005-PINYON RIDGE FED C-1W (315979)	State: / County/City: Time Zone Collected: [ ] PT [✓] MT [ ] CT [ ] ET
Phone: ON FILE Email: ON FILE	Site/Facility ID #: AEC005-PINYON RIDGE FED C-1W (315979)
Collected By (print): Alex Slorby	Purchase Order #: Quote #:
Collected By (signature): Alex Slorby	Turnaround Date Required:
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [✓] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #:
DW Location Code:

Immediately Packed on Ice: [✓] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	COGCC TABLE 915-1 METALS	SAR, pH, EC, Boron (hot water sol.)
230712-PR_C-1W_SB14@5-8	SL		7/12/23	13:20				2	X	X
230712-PR_C-1W_SB14@8-12	SL		7/12/23	13:30				2	X	X
230712-PR_C-1W_SB14@12-14	SL		7/12/23	13:45				2	X	X
230712-PR_C-1W_SB14@14-18	SL		7/12/23	15:00				2	X	X

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Slorby	7/12/2023 1945	Steve Sivigliano	7/12/23 1945
Steve Sivigliano	7/13/23 1300		

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1
of: 1

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Confluence

Billing Information: Confluence Compliance Companies

Address: ON FILE

Report To: CHRIS MCKISSON

Email To: CHRIS.MCKISSON@CONFLUENCE-CC.COM

Copy To: REMEDIATION@CONFLUENCE-CC.COM

Site Collection Info/Address: NESE Sec. 21 3N97W 40.212620/-108.276390

Customer Project Name/Number: AEC005-PINYON RIDGE FED C-1W (315979)

State: / County/City: Time Zone Collected: [ ] PT [✓] MT [ ] CT [ ] ET

Phone: ON FILE
Email: ON FILE

Site/Facility ID #: AEC005-PINYON RIDGE FED C-1W (315979)

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Alex Slorby

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): Alex Slorby

Turnaround Date Required:

Immediately Packed on Ice: [✓] Yes [ ] No

Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [✓] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH	SAR, pH	ARSENIC
230712-PR_C-1W_SB16@8-11	SL		7/12/23	15:30				2	X	X	X

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Slorby	7/12/2023 1945	Steve Sivigliano	7/12/23 1945
Steve Sivigliano	7/13/23 1300		

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Confluence

Billing Information: Confluence Compliance Companies

Address: ON FILE

Report To: CHRIS MCKISSON

Email To: CHRIS.MCKISSON@CONFLUENCE-CC.COM

Copy To: REMEDIATION@CONFLUENCE-CC.COM

Site Collection Info/Address: NESE Sec. 21 3N97W 40.212620/-108.276390

Customer Project Name/Number: AEC005-PINYON RIDGE FED C-1W (315979)

State: / County/City: Time Zone Collected: [ ] PT [✓] MT [ ] CT [ ] ET

Phone: ON FILE
Email: ON FILE

Site/Facility ID #: AEC005-PINYON RIDGE FED C-1W (315979)

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Alex Slorby

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): Alex Slorby

Turnaround Date Required:

Immediately Packed on Ice: [✓] Yes [ ] No

Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [✓] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: TPH	SAR, pH	ARSENIC	Lab Profile/Line
230712-PR_C-1W_SB11@4-8	SL		7/12/23	10:15				2	X	X	X	
230712-PR_C-1W_SB11@16-18	SL		7/12/23	10:35				2	X	X	X	
230712-PR_C-1W_SB12@4-8	SL		7/12/23	11:25				2	X	X	X	
230712-PR_C-1W_SB12@12-14	SL		7/12/23	11:40				2	X	X	X	
230712-PR_C-1W_SB13@4-8	SL		7/12/23	12:20				2	X	X	X	
230712-PR_C-1W_SB13@8-12	SL		7/12/23	12:30				2	X	X	X	
230712-PR_C-1W_SB15@0-4	SL		7/12/23	14:35				2	X	X	X	
230712-PR_C-1W_SB15@8-11	SL		7/12/23	15:05				2	X	X	X	
230712-PR_C-1W_SB16@0-4	SL		7/12/23	15:10				2	X	X	X	
230712-PR_C-1W_SB16@4-8	SL		7/12/23	15:20				2	X	X	X	

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Slorby	7/12/2023 1945	Steve Sivigliano	7/12/23 1945
Steve Sivigliano	7/13/23 1300		

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

ANALYTICAL REPORT

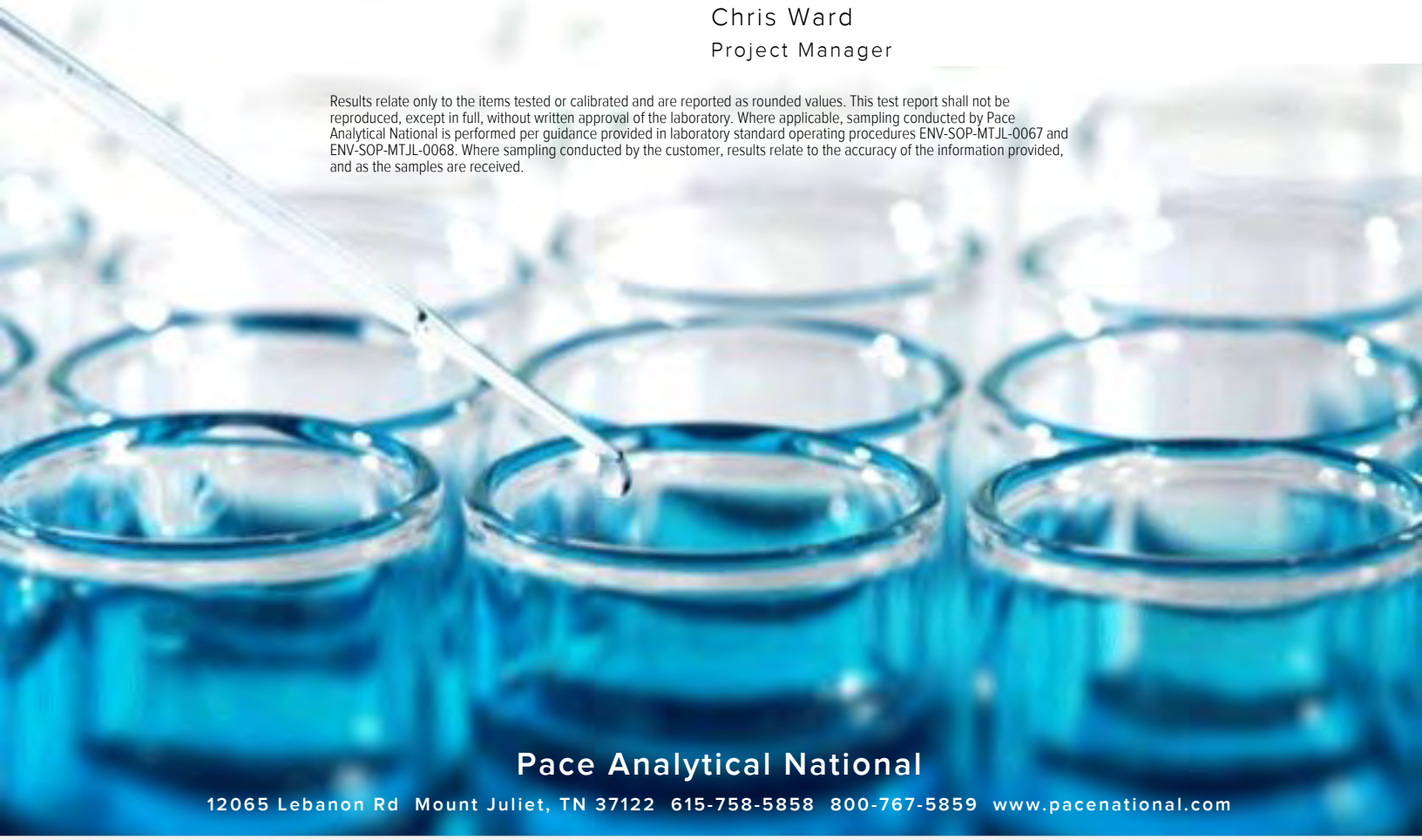
August 11, 2022

Confluence Compliance Companies - CO

Sample Delivery Group:	L1519613
Samples Received:	07/28/2022
Project Number:	
Description:	Pinyon Ridge C1W
Site:	PINYON RIDGE
Report To:	Chris McKisson 403 ½ Rockwood Lane Grand Junction, CO 81507

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

SAMPLE SUMMARY

220725-C1W-SB01@17.5'-20' L1519613-01 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 09:10 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:12	08/10/22 19:12	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 14:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 10:43	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:52	JAS	Mt. Juliet, TN

220725-C1W-SB01@20'-22.5' L1519613-02 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 09:15 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:15	08/10/22 19:15	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	10	08/03/22 09:00	08/04/22 15:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 11:04	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 17:27	JAS	Mt. Juliet, TN

220725-C1W-SB02@10'-15' L1519613-03 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 09:45 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:18	08/10/22 19:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 15:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904264	25	07/28/22 19:17	08/02/22 22:57	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 17:40	JAS	Mt. Juliet, TN

220725-C1W-SB02@15'-17.5' L1519613-04 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 09:50 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:21	08/10/22 19:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 15:09	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904270	1	07/28/22 19:17	08/03/22 09:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:13	JAS	Mt. Juliet, TN

220725-C1W-SB03@16'-19' L1519613-05 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 10:20 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:23	08/10/22 19:23	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 15:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902696	100	07/28/22 19:17	07/29/22 10:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:59	JAS	Mt. Juliet, TN

220725-C1W-SB03@20'-22.5' L1519613-06 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 10:25 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:26	08/10/22 19:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:24	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902696	200	07/28/22 19:17	07/29/22 11:17	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 20:05	JAS	Mt. Juliet, TN

220725-C1W-SB05@17.5'-20' L1519613-07 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 11:20 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 18:18	08/10/22 18:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:27	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904270	1	07/28/22 19:17	08/03/22 09:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 17:53	JAS	Mt. Juliet, TN

220725-C1W-SB05@22'-25' L1519613-08 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 11:35 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 15:03	08/10/22 15:03	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:30	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904270	1	07/28/22 19:17	08/03/22 09:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:07	JAS	Mt. Juliet, TN

220725-C1W-SB06@12.5'-15' L1519613-09 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 12:20 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 16:58	08/10/22 16:58	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:34	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 12:52	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 20:19	JAS	Mt. Juliet, TN

220725-C1W-SB06@17.5'-20' L1519613-10 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 12:25 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:01	08/10/22 17:01	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904588	1	08/02/22 16:34	08/03/22 13:00	SDE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:37	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 13:14	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:20	JAS	Mt. Juliet, TN

220725-C1W-SB07@12.5'-15' L1519613-11 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 12:55 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:04	08/10/22 17:04	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904878	1	08/03/22 09:56	08/03/22 12:00	SDE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 10:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 13:35	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:26	JAS	Mt. Juliet, TN

220725-C1W-SB07@15'-17.5' L1519613-12 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 13:00 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:07	08/10/22 17:07	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904878	1	08/03/22 09:56	08/03/22 12:00	SDE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:40	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 13:57	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:46	JAS	Mt. Juliet, TN

220725-C1W-SB08@8'-10' L1519613-13 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 13:15 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:09	08/10/22 17:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904218	1	08/02/22 09:00	08/02/22 11:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 14:18	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:39	JAS	Mt. Juliet, TN

220725-C1W-SB08@12'-14.5' L1519613-14 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 13:20 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:12	08/10/22 17:12	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 14:40	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:33	JAS	Mt. Juliet, TN

220725-C1W-SB09@12.5'-15' L1519613-15 Solid

Collected by: Andrew Smith | Collected date/time: 07/25/22 13:45 | Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:15	08/10/22 17:15	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1903614	1	07/28/22 19:17	08/01/22 13:21	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 16:57	JAS	Mt. Juliet, TN

SAMPLE SUMMARY

220725-C1W-SB09@17'-19.5' L1519613-16 Solid

Collected by: Andrew Smith
Collected date/time: 07/25/22 13:50
Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:18	08/10/22 17:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904218	1	08/02/22 09:00	08/02/22 11:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1903614	1	07/28/22 19:17	08/01/22 13:44	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 17:09	JAS	Mt. Juliet, TN

220725-C1W-SB10@12.5'-15' L1519613-17 Solid

Collected by: Andrew Smith
Collected date/time: 07/25/22 14:10
Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:26	08/10/22 17:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:44	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902696	100	07/28/22 19:17	07/29/22 11:39	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 17:09	JAS	Mt. Juliet, TN

220725-C1W-SB10@17.5'-19.5' L1519613-18 Solid

Collected by: Andrew Smith
Collected date/time: 07/25/22 14:15
Received date/time: 07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:29	08/10/22 17:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:53	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1903614	1	07/28/22 19:17	08/01/22 14:07	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 17:22	JAS	Mt. Juliet, TN

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	17.5		1	08/10/2022 19:12	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	5.45	T8	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-01 WG1903736: 5.45 at 23.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	30.9		0.100	1.00	5	08/04/2022 14:50	WG1904634

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 10:43	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*07/29/2022 10:43*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:52	WG1903900
C28-C36 Motor Oil Range	2.03	J	0.274	4.00	1	08/02/2022 19:52	WG1903900
(S) o-Terphenyl	*55.2*			*18.0-148*		*08/02/2022 19:52*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	14.2		1	08/10/2022 19:15	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	6.54	T8	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-02 WG1903946: 6.54 at 24.1C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.14		0.200	2.00	10	08/04/2022 15:03	WG1904634

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 11:04	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*07/29/2022 11:04*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:27	WG1903900
C28-C36 Motor Oil Range	0.481	J	0.274	4.00	1	08/02/2022 17:27	WG1903900
(S) o-Terphenyl	*62.8*			*18.0-148*		*08/02/2022 17:27*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.11		1	08/10/2022 19:18	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.12	T8	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-03 WG1903736: 8.12 at 23.4C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.43		0.100	1.00	5	08/04/2022 15:06	WG1904634

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	49.2		0.543	2.50	25	08/02/2022 22:57	WG1904264
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*08/02/2022 22:57*	WG1904264

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:40	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 17:40	WG1903900
(S) o-Terphenyl	*39.3*			*18.0-148*		*08/02/2022 17:40*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.90		1	08/10/2022 19:21	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.52	T8	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-04 WG1903736: 7.52 at 23.1C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	26.0		0.100	1.00	5	08/04/2022 15:09	WG1904634

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0277	J	0.0217	0.100	1	08/03/2022 09:13	WG1904270
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*08/03/2022 09:13*	WG1904270

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:13	WG1903900
C28-C36 Motor Oil Range	2.10	J	0.274	4.00	1	08/02/2022 19:13	WG1903900
(S) o-Terphenyl	*50.5*			*18.0-148*		*08/02/2022 19:13*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.23		1	08/10/2022 19:23	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.08	T8	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-05 WG1903736: 8.08 at 23.3C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	19.1		0.100	1.00	5	08/04/2022 15:12	WG1904634

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	142		2.17	10.0	100	07/29/2022 10:54	WG1902696
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*77.0-120*		*07/29/2022 10:54*	WG1902696

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.44		1.61	4.00	1	08/02/2022 18:59	WG1903900
C28-C36 Motor Oil Range	6.42		0.274	4.00	1	08/02/2022 18:59	WG1903900
(S) o-Terphenyl	*43.1*			*18.0-148*		*08/02/2022 18:59*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.02		1	08/10/2022 19:26	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	6.66	T8	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-06 WG1903946: 6.66 at 23.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	38.2		0.100	1.00	5	08/10/2022 11:24	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	44.2	B	4.34	20.0	200	07/29/2022 11:17	WG1902696
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*		*07/29/2022 11:17*	WG1902696

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	34.8		1.61	4.00	1	08/02/2022 20:05	WG1903900
C28-C36 Motor Oil Range	4.58		0.274	4.00	1	08/02/2022 20:05	WG1903900
(S) o-Terphenyl	*51.9*			*18.0-148*		*08/02/2022 20:05*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.60		1	08/10/2022 18:18	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.82	T8	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-07 WG1903946: 7.82 at 23.7C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.30		0.100	1.00	5	08/10/2022 11:27	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0374	J	0.0217	0.100	1	08/03/2022 09:33	WG1904270
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*08/03/2022 09:33*	WG1904270

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:53	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 17:53	WG1903900
(S) o-Terphenyl	*58.0*			*18.0-148*		*08/02/2022 17:53*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.6		1	08/10/2022 15:03	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	T8	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-08 WG1903946: 7.94 at 23.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.70		0.100	1.00	5	08/10/2022 11:30	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0411	J	0.0217	0.100	1	08/03/2022 09:54	WG1904270
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*77.0-120*		*08/03/2022 09:54*	WG1904270

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:07	WG1903900
C28-C36 Motor Oil Range	2.50	J	0.274	4.00	1	08/02/2022 18:07	WG1903900
(S) o-Terphenyl	*55.3*			*18.0-148*		*08/02/2022 18:07*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	14.3		1	08/10/2022 16:58	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	4.81	T8	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-09 WG1904469: 4.81 at 23.8C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	49.7		0.100	1.00	5	08/10/2022 11:34	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 12:52	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-120*		*07/29/2022 12:52*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.39	J	1.61	4.00	1	08/02/2022 20:19	WG1903900
C28-C36 Motor Oil Range	24.1		0.274	4.00	1	08/02/2022 20:19	WG1903900
(S) o-Terphenyl	*50.9*			*18.0-148*		*08/02/2022 20:19*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	23.5		1	08/10/2022 17:01	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.19	T8	1	08/03/2022 13:00	WG1904588

Sample Narrative:

L1519613-10 WG1904588: 7.19 at 24.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.59		0.100	1.00	5	08/10/2022 11:37	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 13:14	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-120*		*07/29/2022 13:14*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:20	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 18:20	WG1903900
(S) o-Terphenyl	*56.0*			*18.0-148*		*08/02/2022 18:20*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	26.8		1	08/10/2022 17:04	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	5.03	T8	1	08/03/2022 12:00	WG1904878

Sample Narrative:

L1519613-11 WG1904878: 5.03 at 24.3C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.0		0.100	1.00	5	08/10/2022 10:42	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 13:35	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*07/29/2022 13:35*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:26	WG1903900
C28-C36 Motor Oil Range	2.93	J	0.274	4.00	1	08/02/2022 19:26	WG1903900
(S) o-Terphenyl	*55.3*			*18.0-148*		*08/02/2022 19:26*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	34.7		1	08/10/2022 17:07	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	5.55	T8	1	08/03/2022 12:00	WG1904878

Sample Narrative:

L1519613-12 WG1904878: 5.55 at 24.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.65		0.100	1.00	5	08/10/2022 11:40	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 13:57	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-120*		*07/29/2022 13:57*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:46	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 18:46	WG1903900
(S) o-Terphenyl	*50.5*			*18.0-148*		*08/02/2022 18:46*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	15.3		1	08/10/2022 17:09	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.14	T8	1	08/02/2022 11:00	WG1904218

Sample Narrative:

L1519613-13 WG1904218: 7.14 at 23.3C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	21.3		0.100	1.00	5	08/02/2022 11:27	WG1903349

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 14:18	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*07/29/2022 14:18*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:39	WG1903900
C28-C36 Motor Oil Range	3.51	J	0.274	4.00	1	08/02/2022 19:39	WG1903900
(S) o-Terphenyl	*55.3*			*18.0-148*		*08/02/2022 19:39*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	19.6		1	08/10/2022 17:12	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	6.73	T8	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-14 WG1904469: 6.73 at 23.9C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	11.1		0.100	1.00	5	08/02/2022 11:30	WG1903349

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 14:40	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-120*		*07/29/2022 14:40*	WG1902694

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:33	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 18:33	WG1903900
(S) o-Terphenyl	*56.4*			*18.0-148*		*08/02/2022 18:33*	WG1903900

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	9.55		1	08/10/2022 17:15	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.05	T8	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-15 WG1903946: 8.05 at 23.1C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.50		0.100	1.00	5	08/02/2022 11:34	WG1903349

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0765	J	0.0217	0.100	1	08/01/2022 13:21	WG1903614
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*		*08/01/2022 13:21*	WG1903614

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 16:57	WG1903903
C28-C36 Motor Oil Range	1.07	J	0.274	4.00	1	08/02/2022 16:57	WG1903903
(S) o-Terphenyl	*52.8*			*18.0-148*		*08/02/2022 16:57*	WG1903903

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.44		1	08/10/2022 17:18	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.98	T8	1	08/02/2022 11:00	WG1904218

Sample Narrative:

L1519613-16 WG1904218: 7.98 at 22.7C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.09		0.100	1.00	5	08/02/2022 11:37	WG1903349

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0938	J	0.0217	0.100	1	08/01/2022 13:44	WG1903614
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*		*08/01/2022 13:44*	WG1903614

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:09	WG1903903
C28-C36 Motor Oil Range	0.350	J	0.274	4.00	1	08/02/2022 17:09	WG1903903
(S) o-Terphenyl	*49.8*			*18.0-148*		*08/02/2022 17:09*	WG1903903

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	21.2		1	08/10/2022 17:26	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	T8	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-17 WG1904469: 7.94 at 24.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.86		0.100	1.00	5	08/10/2022 11:44	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	332		2.17	10.0	100	07/29/2022 11:39	WG1902696
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*77.0-120*		*07/29/2022 11:39*	WG1902696

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.17	J	1.61	4.00	1	08/02/2022 17:09	WG1903903
C28-C36 Motor Oil Range	1.81	J	0.274	4.00	1	08/02/2022 17:09	WG1903903
(S) o-Terphenyl	*37.8*			*18.0-148*		*08/02/2022 17:09*	WG1903903

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.78		1	08/10/2022 17:29	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.51	T8	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-18 WG1904469: 7.51 at 23.9C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.25		0.100	1.00	5	08/10/2022 11:53	WG1902672

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0384	J	0.0217	0.100	1	08/01/2022 14:07	WG1903614
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*08/01/2022 14:07*	WG1903614

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:22	WG1903903
C28-C36 Motor Oil Range	0.798	J	0.274	4.00	1	08/02/2022 17:22	WG1903903
(S) o-Terphenyl	*36.9*			*18.0-148*		*08/02/2022 17:22*	WG1903903

L1519613-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1519613-05 08/01/22 13:00 • (DUP) R3821296-2 08/01/22 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.08	8.04	1	0.496		1

Sample Narrative:

OS: 8.08 at 23.3C

DUP: 8.04 at 23.4C

L1519700-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1519700-01 08/01/22 13:00 • (DUP) R3821296-3 08/01/22 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.61	7.62	1	0.131		1

Sample Narrative:

OS: 7.61 at 23.4C

DUP: 7.62 at 23.5C

Laboratory Control Sample (LCS)

(LCS) R3821296-1 08/01/22 13:00

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

Sample Narrative:

LCS: 9.91 at 23.9C

L1519603-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1519603-03 08/01/22 16:00 • (DUP) R3821459-2 08/01/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	8.18	8.19	1	0.122		1

Sample Narrative:

OS: 8.18 at 23.5C

DUP: 8.19 at 23.6C

L1519861-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1519861-03 08/01/22 16:00 • (DUP) R3821459-3 08/01/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.95	7.96	1	0.126		1

Sample Narrative:

OS: 7.95 at 23.1C

DUP: 7.96 at 23.1C

Laboratory Control Sample (LCS)

(LCS) R3821459-1 08/01/22 16:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 24.9C

L1519856-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1519856-02 08/02/22 11:00 • (DUP) R3821644-2 08/02/22 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.28	7.29	1	0.137		1

Sample Narrative:

OS: 7.28 at 22.6C

DUP: 7.29 at 22.7C

L1520009-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1520009-01 08/02/22 11:00 • (DUP) R3821644-3 08/02/22 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.74	7.76	1	0.258		1

Sample Narrative:

OS: 7.74 at 22.9C

DUP: 7.76 at 23.2C

Laboratory Control Sample (LCS)

(LCS) R3821644-1 08/02/22 11:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 22C

L1519987-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1519987-03 08/02/22 16:00 • (DUP) R3821843-2 08/02/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.64	7.65	1	0.131		1

Sample Narrative:

OS: 7.64 at 23.6C

DUP: 7.65 at 23.6C

L1520018-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1520018-02 08/02/22 16:00 • (DUP) R3821843-3 08/02/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.04	8.08	1	0.496		1

Sample Narrative:

OS: 8.04 at 23.2C

DUP: 8.08 at 23C

Laboratory Control Sample (LCS)

(LCS) R3821843-1 08/02/22 16:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 23.9C

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

L1519613-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1519613-10 08/03/22 13:00 • (DUP) R3822121-2 08/03/22 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.19	7.17	1	0.279		1

Sample Narrative:

OS: 7.19 at 24.2C

DUP: 7.17 at 24.3C

L1519620-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1519620-05 08/03/22 13:00 • (DUP) R3822121-3 08/03/22 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	9.24	9.24	1	0.000		1

Sample Narrative:

OS: 9.24 at 24C

DUP: 9.24 at 24.1C

Laboratory Control Sample (LCS)

(LCS) R3822121-1 08/03/22 13:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 23.8C

L1520009-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1520009-05 08/03/22 12:00 • (DUP) R3822204-2 08/03/22 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.77	7.74	1	0.387		1

Sample Narrative:

OS: 7.77 at 23.9C

DUP: 7.74 at 24C

L1520326-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1520326-05 08/03/22 12:00 • (DUP) R3822204-3 08/03/22 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	7.44	7.41	1	0.404		1

Sample Narrative:

OS: 7.44 at 23.9C

DUP: 7.41 at 24C

Laboratory Control Sample (LCS)

(LCS) R3822204-1 08/03/22 12:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 23.5C

QUALITY CONTROL SUMMARY

L1519613-06,07,08,09,10,11,12,17,18

Method Blank (MB)

(MB) R3824592-1 08/10/22 10:36

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

Laboratory Control Sample (LCS)

(LCS) R3824592-3 08/10/22 10:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	85.6	85.6	80.0-120	

L1519613-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519613-11 08/10/22 10:42 • (MS) R3824592-6 08/10/22 10:52 • (MSD) R3824592-7 08/10/22 10:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	12.0	90.3	104	78.3	92.0	5	75.0-125			14.1	20

Method Blank (MB)

(MB) R3821674-1 08/02/22 10:02

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

Laboratory Control Sample (LCS)

(LCS) R3821674-2 08/02/22 10:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	95.0	95.0	80.0-120	

L1519025-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519025-12 08/02/22 10:08 • (MS) R3821674-5 08/02/22 10:18 • (MSD) R3821674-6 08/02/22 10:21

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	0.913	90.2	94.1	89.3	93.2	5	75.0-125			4.19	20

Method Blank (MB)

(MB) R3822796-1 08/04/22 13:45

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

Laboratory Control Sample (LCS)

(LCS) R3822796-2 08/04/22 13:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	99.4	99.4	80.0-120	

L1518594-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1518594-07 08/04/22 13:51 • (MS) R3822796-5 08/04/22 14:01 • (MSD) R3822796-6 08/04/22 14:04

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	6.40	103	108	96.5	101	5	75.0-125			4.53	20

Method Blank (MB)

(MB) R3821594-2 07/29/22 06:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3821594-1 07/29/22 05:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.76	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

Method Blank (MB)

(MB) R3820917-3 07/29/22 06:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.987	J	0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*

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

(LCS) R3820917-1 07/29/22 05:14 • (LCSD) R3820917-2 07/29/22 05:37

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	5.50	5.17	4.87	94.0	88.5	72.0-127			5.98	20
(S) a,a,a-Trifluorotoluene(FID)				*99.0*	*99.3*	*77.0-120*				

L1518914-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1518914-01 07/29/22 07:29 • (MS) R3820917-4 07/29/22 15:08 • (MSD) R3820917-5 07/29/22 15:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	142	1.86	112	137	77.6	95.2	25.8	10.0-151			20.1	28
(S) a,a,a-Trifluorotoluene(FID)					*99.7*	*101*		*77.0-120*				

Method Blank (MB)

(MB) R3822946-2 08/01/22 11:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3822946-1 08/01/22 09:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.33	115	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*109*	*77.0-120*	

Method Blank (MB)

(MB) R3823165-2 08/02/22 20:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3823165-1 08/02/22 19:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.13	93.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*112*	*77.0-120*	

Method Blank (MB)

(MB) R3822313-2 08/03/22 08:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3822313-1 08/03/22 07:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.90	89.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

Method Blank (MB)

(MB) R3821899-1 08/02/22 17:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*66.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3821899-2 08/02/22 17:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.3	74.6	50.0-150	
(S) o-Terphenyl			*97.7*	*18.0-148*	

L1519607-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519607-01 08/02/22 21:51 • (MS) R3821899-3 08/02/22 22:04 • (MSD) R3821899-4 08/02/22 22:17

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 %
C10-C28 Diesel Range	49.4	U	U	U	0.000	0.000	50	50.0-150	J6	J6	0.000	20
(S) o-Terphenyl					*0.000*	*0.000*		*18.0-148*	J7	J7		

Sample Narrative:

OS: Cannot run at lower dilution due to viscosity of extract

Method Blank (MB)

(MB) R3822003-1 08/02/22 16:44

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

Laboratory Control Sample (LCS)

(LCS) R3822003-2 08/02/22 16:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.9	77.8	50.0-150	
(S) o-Terphenyl			*82.6*	*18.0-148*	

L1519744-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519744-03 08/02/22 18:12 • (MS) R3822003-3 08/02/22 18:24 • (MSD) R3822003-4 08/02/22 18:37

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	48.2	1440	1690	1280	519	0.000	25	50.0-150	V	J3 V	27.6	20
(S) o-Terphenyl					*0.000*	*0.000*		*18.0-148*	J7	J7		

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies, LLC.	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address:
Customer Project Name/Number: Voloshin Morton 1-8 Backgrounds	State: CO / County/City: Moffat / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: Email:	Site/Facility ID #: Voloshin Morton 1-8 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Andrew Smith	Purchase Order # : Quote #: / DW PWS ID #: DW Location Code:
Collected By (signature): A Smith	Turnaround Date Required: Standard Turnaround / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, EC, SAR	Boron (Hot Water Soluble Soil)					Lab Sample # / Comments
220725-C1W-SB01@17.5'-20'	SL	G	7/25/2022	0910				2	G	X	X	X	X	X	X					L1515613-01
220725-C1W-SB01@20'-22.5'	SL	G	7/25/2022	0915				2	G	X	X	X	X	X	X					-02
220725-C1W-SB02@10'-15'	SL	G	7/25/2022	0945				2	G	X	X	X	X	X	X					-03
220725-C1W-SB02@15'-17.5'	SL	G	7/25/2022	0950				2	G	X	X	X	X	X	X					-04
220725-C1W-SB03@16'-19'	SL	G	7/25/2022	1020				2	G	X	X	X	X	X	X					-05
220725-C1W-SB03@20'-22.5'	SL	G	7/25/2022	1025				2	G	X	X	X	X	X	X					-06
220725-C1W-SB05@17.5'-20'	SL	G	7/25/2022	1120				2	G	X	X	X	X	X	X					-07
220725-C1W-SB05@22'-25'	SL	G	7/25/2022	1135				2	G	X	X	X	X	X	X					-08
220725-C1W-SB06@12.5'-15'	SL	G	7/25/2022	1220				2	G	X	X	X	X	X	X					-09
220725-C1W-SB06@17.5'-20'	SL	G	7/25/2022	1225				2	G	X	X	X	X	X	X					-10

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature) A Smith	Date/Time: 7/27/22 1330	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time: 7/27/22/1500	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 7/28/22 900

F105

Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

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Address: Info on file	
Report To: Chris McKisson	Email To: info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address:
Customer Project Name/Number: Voloshin Morton 1-8 Backgrounds	State: CO / County/City: Moffat / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Voloshin Morton 1-8 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Andrew Smith	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): A Smith	Turnaround Date Required: Standard Turnaround / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: ____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, EC, SAR	Boron (Hot Water Soluble Soil)	Lab Sample # / Comments
220725-C1W-SB07@12.5'-15'	SL	G	7/25/2022	1255				2	G	X	X	X	X	X	X	L1519613 -4
220725-C1W-SB07@15'-17.5'	SL	G	7/25/2022	1300				2	G	X	X	X	X	X	X	72
220725-C1W-SB08@8'-10'	SL	G	7/25/2022	1315				2	G	X	X	X	X	X	X	73
220725-C1W-SB08@12'-14.5'	SL	G	7/25/2022	1320				2	G	X	X	X	X	X	X	74
220725-C1W-SB09@12.5'-15'	SL	G	7/25/2022	1345				2	G	X	X	X	X	X	X	75
220725-C1W-SB09@17'-19.5'	SL	G	7/25/2022	1350				2	G	X	X	X	X	X	X	76
220725-C1W-SB10@12.5'-15'	SL	G	7/25/2022	1410				2	G	X	X	X	X	X	X	77
220725-C1W-SB10@17.5'-19.5'	SL	G	7/25/2022	1415				2	G	X	X	X	X	X	X	78

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: ____			
Sample pH Acceptable	Y	N	NA
pH Strips: ____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: ____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
A Smith	7/27/22 1336		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	7/27/22 1501		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
			7/28/22 900

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

U1519613

Tracking Numbers	Temperature
575580849576	DEAT 0.3 to = 0.3
1 9587	DEAT 0.3 to = 0.3

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ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies, LLC.	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address:
Customer Project Name/Number: Pinyon Ridge C-1W	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: C-1W / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Andrew Smith	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): A Smith	Turnaround Date Required: Standard Turnaround / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, SAR, Arsenic	Boron (Hot Water Soluble Soil)					
220725-C1W-SB01@17.5'-20'	SL	G	7/25/2022	0910				2	G		X			X						
220725-C1W-SB01@20'-22.5'	SL	G	7/25/2022	0915				2	G		X			X						
220725-C1W-SB02@10'-15'	SL	G	7/25/2022	0945				2	G		X			X						
220725-C1W-SB02@15'-17.5'	SL	G	7/25/2022	0950				2	G		X			X						
220725-C1W-SB03@16'-19'	SL	G	7/25/2022	1020				2	G		X			X						
220725-C1W-SB03@20'-22.5'	SL	G	7/25/2022	1025				2	G		X			X						
220725-C1W-SB05@17.5'-20'	SL	G	7/25/2022	1120				2	G		X			X						
220725-C1W-SB05@22'-25'	SL	G	7/25/2022	1135				2	G		X			X						
220725-C1W-SB06@12.5'-15'	SL	G	7/25/2022	1220				2	G		X			X						
220725-C1W-SB06@17.5'-20'	SL	G	7/25/2022	1225				2	G		X			X						

Analyses

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: _____
Sample pH Acceptable         Y N NA
pH Strips: _____
Sulfide Present              Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:
```

L1519613

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

```
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:
```

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
A Smith			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

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Company: Confluence Compliance Companies, LLC.	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address:
Customer Project Name/Number: Pinyon Ridge C-1W	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Pinyon Ridge C-1W / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Andrew Smith	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): A Smith	Turnaround Date Required: Standard Turnaround / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, SAR, Arsenic	Boron (Hot Water Soluble Soil)
220725-C1W-SB07@12.5'-15'	SL	G	7/25/2022	1255				2	G		X			X	
220725-C1W-SB07@15'-17.5'	SL	G	7/25/2022	1300				2	G		X			X	
220725-C1W-SB08@8'-10'	SL	G	7/25/2022	1315				2	G		X			X	
220725-C1W-SB08@12'-14.5'	SL	G	7/25/2022	1320				2	G		X			X	
220725-C1W-SB09@12.5'-15'	SL	G	7/25/2022	1345				2	G		X			X	
220725-C1W-SB09@17'-19.5'	SL	G	7/25/2022	1350				2	G		X			X	
220725-C1W-SB10@12.5'-15'	SL	G	7/25/2022	1410				2	G		X			X	
220725-C1W-SB10@17.5'-19.5'	SL	G	7/25/2022	1415				2	G		X			X	

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

L1519613

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
A Smith			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

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Company: Confluence Compliance Companies, LLC.	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address:
Customer Project Name/Number: Pinyon Ridge C-1W	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Phone: Email:	Site/Facility ID #: C-1W	Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Andrew Smith	Purchase Order # : Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature): A Smith	Turnaround Date Required: Standard Turnaround	Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

L1519613

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, SAR, Arsenic	Boron (Hot Water Soluble Soil)				
220725-C1W-SB01@17.5'-20'	SL	G	7/25/2022	0910				2	G		X			X					
220725-C1W-SB01@20'-22.5'	SL	G	7/25/2022	0915				2	G		X			X					
220725-C1W-SB02@10'-15'	SL	G	7/25/2022	0945				2	G		X			X					
220725-C1W-SB02@15'-17.5'	SL	G	7/25/2022	0950				2	G		X			X					
220725-C1W-SB03@16'-19'	SL	G	7/25/2022	1020				2	G		X			X					
220725-C1W-SB03@20'-22.5'	SL	G	7/25/2022	1025				2	G		X			X					
220725-C1W-SB05@17.5'-20'	SL	G	7/25/2022	1120				2	G		X			X					
220725-C1W-SB05@22'-25'	SL	G	7/25/2022	1135				2	G		X			X					
220725-C1W-SB06@12.5'-15'	SL	G	7/25/2022	1220				2	G		X			X					
220725-C1W-SB06@17.5'-20'	SL	G	7/25/2022	1225				2	G		X			X					

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature) A Smith	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

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Address: Info on file	
Report To: Chris McKisson	Email To: info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address:
Customer Project Name/Number: Pinyon Ridge C-1W	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Pinyon Ridge C-1W / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Andrew Smith	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): A Smith	Turnaround Date Required: Standard Turnaround / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, SAR, Arsenic	Boron (Hot Water Soluble Soil)
220725-C1W-SB07@12.5'-15'	SL	G	7/25/2022	1255				2	G		X			X	
220725-C1W-SB07@15'-17.5'	SL	G	7/25/2022	1300				2	G		X			X	
220725-C1W-SB08@8'-10'	SL	G	7/25/2022	1315				2	G		X			X	
220725-C1W-SB08@12'-14.5'	SL	G	7/25/2022	1320				2	G		X			X	
220725-C1W-SB09@12.5'-15'	SL	G	7/25/2022	1345				2	G		X			X	
220725-C1W-SB09@17'-19.5'	SL	G	7/25/2022	1350				2	G		X			X	
220725-C1W-SB10@12.5'-15'	SL	G	7/25/2022	1410				2	G		X			X	
220725-C1W-SB10@17.5'-19.5'	SL	G	7/25/2022	1415				2	G		X			X	

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

L1519613

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
A Smith			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

CONCOMGJCO L1519613 edits

R3/R4/RX/EX

L1519613-01 through -18: Please delete all analyses **except** GRO, DRONM, PH, SAR, ASG.

Time estimate: oh **Time spent:** oh

Members

Chris Ward KM Kelly Mercer

ANALYTICAL REPORT

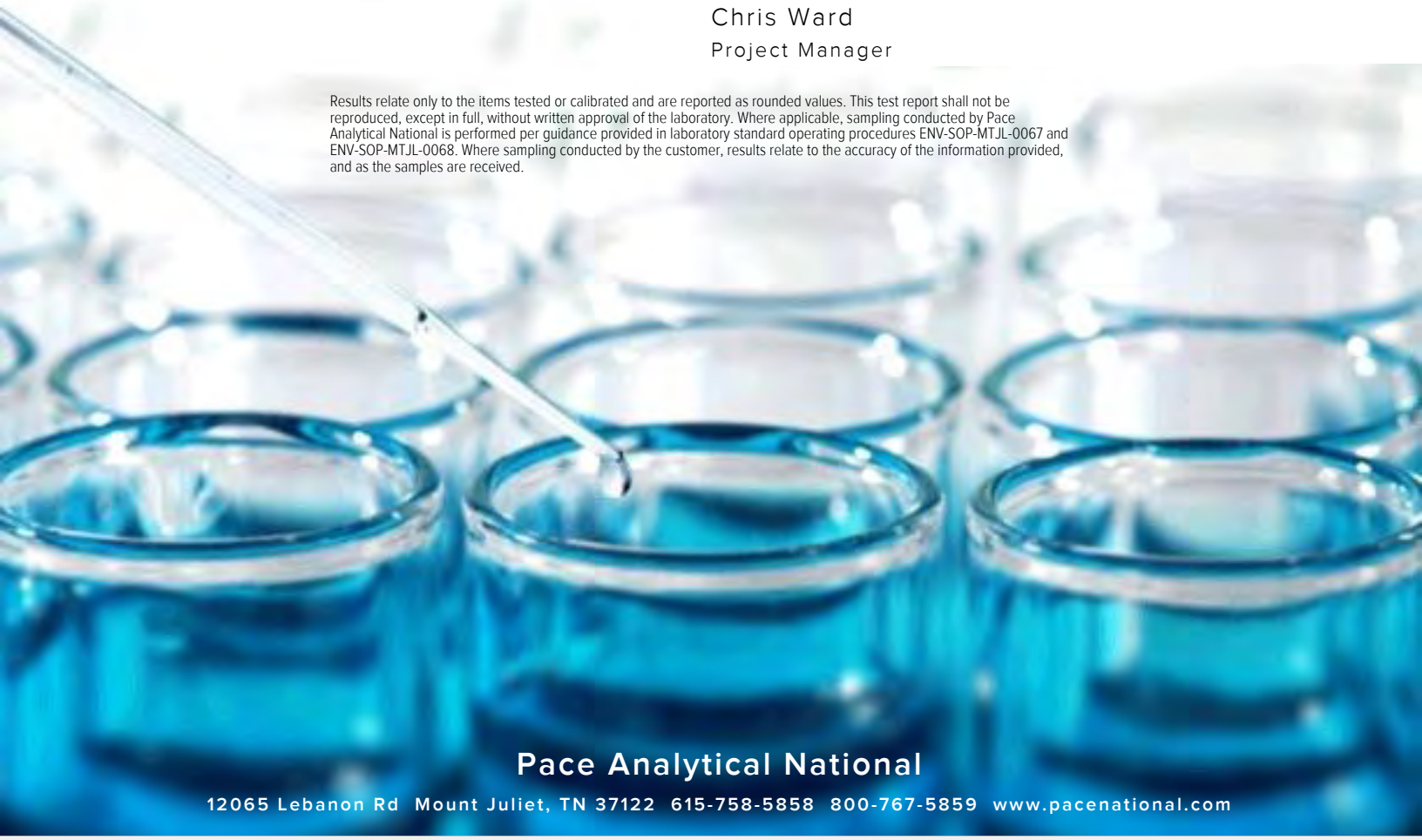
October 19, 2022

Confluence Compliance Companies - CO

Sample Delivery Group:	L1541684
Samples Received:	09/30/2022
Project Number:	315979
Description:	AEC005-Pinyon Ridge Fed C-1W (315979)
Site:	PIYON RIDGE FED C-1W/315979
Report To:	Chris McKisson 403 ½ Rockwood Lane Grand Junction, CO 81507

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-PHNE@4' L1541684-01 Solid

Collected by: Alex Slorby | Collected date/time: 09/28/22 11:30 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:39	10/17/22 07:39	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939111	500	10/04/22 17:17	10/07/22 23:52	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:15	JAS	Mt. Juliet, TN

20220928-PR_FED_C-1W-PHNE@12' L1541684-02 Solid

Collected by: Alex Slorby | Collected date/time: 09/28/22 13:00 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:42	10/17/22 07:42	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939111	500	10/04/22 17:17	10/08/22 00:13	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:28	JAS	Mt. Juliet, TN

20220928-PR_FED_C-1W-PHNW@4' L1541684-03 Solid

Collected by: Alex Slorby | Collected date/time: 09/28/22 13:35 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:45	10/17/22 07:45	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1938210	1	10/04/22 17:17	10/07/22 18:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:41	JAS	Mt. Juliet, TN

20220928-PR_FED_C-1W-PHS@1.5' L1541684-04 Solid

Collected by: Alex Slorby | Collected date/time: 09/28/22 13:50 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:53	10/17/22 07:53	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:09	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1937292	1	10/04/22 17:17	10/05/22 15:26	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 11:08	JAS	Mt. Juliet, TN

20220928-PR_FED_C-1W-PHS@4' L1541684-05 Solid

Collected by: Alex Slorby | Collected date/time: 09/28/22 14:10 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:56	10/17/22 07:56	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1938210	1	10/04/22 17:17	10/07/22 18:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:54	JAS	Mt. Juliet, TN

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	20.6		1	10/17/2022 07:39	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-01 WG1935993: 8.27 at 20.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.26		0.100	1.00	5	10/06/2022 14:41	WG1937115

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1420		10.9	50.0	500	10/07/2022 23:52	WG1939111
(S) a,a,a-Trifluorotoluene(FID)	*84.9*			*77.0-120*		*10/07/2022 23:52*	WG1939111

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	88.3		1.61	4.00	1	10/07/2022 10:15	WG1938522
C28-C36 Motor Oil Range	26.6		0.274	4.00	1	10/07/2022 10:15	WG1938522
(S) o-Terphenyl	*61.6*			*18.0-148*		*10/07/2022 10:15*	WG1938522

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	25.7		1	10/17/2022 07:42	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.69	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-02 WG1935993: 8.69 at 20.3C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.67		0.100	1.00	5	10/14/2022 10:25	WG1937119

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1050		10.9	50.0	500	10/08/2022 00:13	WG1939111
(S) a,a,a-Trifluorotoluene(FID)	*89.1*			*77.0-120*		*10/08/2022 00:13*	WG1939111

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	36.7		1.61	4.00	1	10/07/2022 10:28	WG1938522
C28-C36 Motor Oil Range	13.9		0.274	4.00	1	10/07/2022 10:28	WG1938522
(S) o-Terphenyl	*61.5*			*18.0-148*		*10/07/2022 10:28*	WG1938522

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.74		1	10/17/2022 07:45	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.24	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-03 WG1935993: 8.24 at 20.3C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.07		0.100	1.00	5	10/14/2022 10:28	WG1937119

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0559	B J	0.0217	0.100	1	10/07/2022 18:31	WG1938210
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*77.0-120*		*10/07/2022 18:31*	WG1938210

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	10/07/2022 10:41	WG1938522
C28-C36 Motor Oil Range	1.71	J	0.274	4.00	1	10/07/2022 10:41	WG1938522
(S) o-Terphenyl	*62.9*			*18.0-148*		*10/07/2022 10:41*	WG1938522

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	70.2		1	10/17/2022 07:53	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.35	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-04 WG1935993: 8.35 at 20.3C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.88	J6	0.100	1.00	5	10/14/2022 10:09	WG1937119

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	6.59		0.0217	0.100	1	10/05/2022 15:26	WG1937292
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*62.0-128*		*10/05/2022 15:26*	WG1937292

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	11.7		1.61	4.00	1	10/07/2022 11:08	WG1938522
C28-C36 Motor Oil Range	14.1		0.274	4.00	1	10/07/2022 11:08	WG1938522
(S) o-Terphenyl	*82.9*			*18.0-148*		*10/07/2022 11:08*	WG1938522

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	18.4		1	10/17/2022 07:56	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.61	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-05 WG1935993: 8.61 at 20.4C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.21		0.100	1.00	5	10/14/2022 10:32	WG1937119

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0828	B J	0.0217	0.100	1	10/07/2022 18:54	WG1938210
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*		*10/07/2022 18:54*	WG1938210

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	10/07/2022 10:54	WG1938522
C28-C36 Motor Oil Range	0.310	J	0.274	4.00	1	10/07/2022 10:54	WG1938522
(S) o-Terphenyl	*68.8*			*18.0-148*		*10/07/2022 10:54*	WG1938522

L1541669-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1541669-02 10/03/22 11:00 • (DUP) R3843981-2 10/03/22 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.84	6.88	1	0.583		1

Sample Narrative:

OS: 6.84 at 21.3C

DUP: 6.88 at 21.3C

L1541684-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1541684-02 10/03/22 11:00 • (DUP) R3843981-3 10/03/22 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.69	8.68	1	0.115		1

Sample Narrative:

OS: 8.69 at 20.3C

DUP: 8.68 at 20.4C

Laboratory Control Sample (LCS)

(LCS) R3843981-1 10/03/22 11:00

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

Sample Narrative:

LCS: 9.91 at 20.7C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

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

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

Method Blank (MB)

(MB) R3848462-1 10/14/22 10:02

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

Laboratory Control Sample (LCS)

(LCS) R3848462-2 10/14/22 10:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	86.9	86.9	80.0-120	

L1541684-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541684-04 10/14/22 10:09 • (MS) R3848462-5 10/14/22 10:18 • (MSD) R3848462-6 10/14/22 10:22

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	6.88	83.4	79.1	76.6	72.2	5	75.0-125		J6	5.34	20

Method Blank (MB)

(MB) R3845249-3 10/05/22 11:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0219	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3845249-2 10/05/22 09:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.67	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*110*	*77.0-120*	

L1541563-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541563-07 10/05/22 12:03 • (MS) R3845249-6 10/05/22 16:57 • (MSD) R3845249-7 10/05/22 17:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.13	6.69	6.81	10.2	12.4	1	10.0-151			1.78	28
(S) a,a,a-Trifluorotoluene(FID)					*75.9*	*67.6*		*77.0-120*				

Method Blank (MB)

(MB) R3846280-2 10/07/22 17:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0305	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3846280-1 10/07/22 16:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.90	89.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*77.0-120*	

Method Blank (MB)

(MB) R3847042-2 10/07/22 17:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*

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

(LCS) R3847042-1 10/07/22 16:24 • (LCSD) R3847042-3 10/07/22 18:08

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	5.50	5.14	5.76	93.5	105	72.0-127			11.4	20
(S) a,a,a-Trifluorotoluene(FID)				*107*	*110*	*77.0-120*				

Method Blank (MB)

(MB) R3845657-1 10/07/22 02:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*81.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3845657-2 10/07/22 02:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	26.9	53.8	50.0-150	
(S) o-Terphenyl			*67.1*	*18.0-148*	

L1541687-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541687-01 10/07/22 11:33 • (MS) R3845657-3 10/07/22 11:46 • (MSD) R3845657-4 10/07/22 12:00

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	50.0	U	37.7	35.1	75.4	70.2	1	50.0-150			7.14	20
(S) o-Terphenyl					*95.0*	*90.5*		*18.0-148*				

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

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.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: **D083**

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report to: Chris McKisson	Email To: Info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address: NESE 21 3N97W 40.212620/-108.276390
Customer Project Name/Number: AEC005 - Pinyon Ridge Fed C-1W (315979)	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Phone: / Email:	Site/Facility ID #: Pinyon Ridge Fed C-1W / 315979	Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Alex Slorby	Purchase Order # : / Quote #:	DW PWS ID #: / DW Location Code:
Collected By (signature): Alex Slorby	Turnaround Date Required: Standard	Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold:	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Customer Sample ID (Sample PFX: 20220928-PR_FED_C-1W-)	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	TPH	pH	SAR	Arsenic	Lab Sample # / Comments:
PHNE@4'	SL	G	9/28/2022	1130				3	P/G	X	X	X	X	L1541684 -01
PHNE@12'	SL	G	9/28/2022	1300				3	P/G	X	X	X	X	-02
PHNW@4'	SL	G	9/28/2022	1335				3	P/G	X	X	X	X	-03
PHS@1.5'	SL	G	9/28/2022	1350				3	P/G	X	X	X	X	-04
PHS@4'	SL	G	9/28/2022	1410				3	P/G	X	X	X	X	-05

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: NSA6
Cooler 1 Temp Upon Receipt: .7 oC
Cooler 1 Therm Corr. Factor: .3 oC
Cooler 1 Corrected Temp: 1.0 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Slorby	9/29/22 1200		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	9/29/22 1600		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
		D. Ramsey	09-30-22 1000

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

ANALYTICAL REPORT

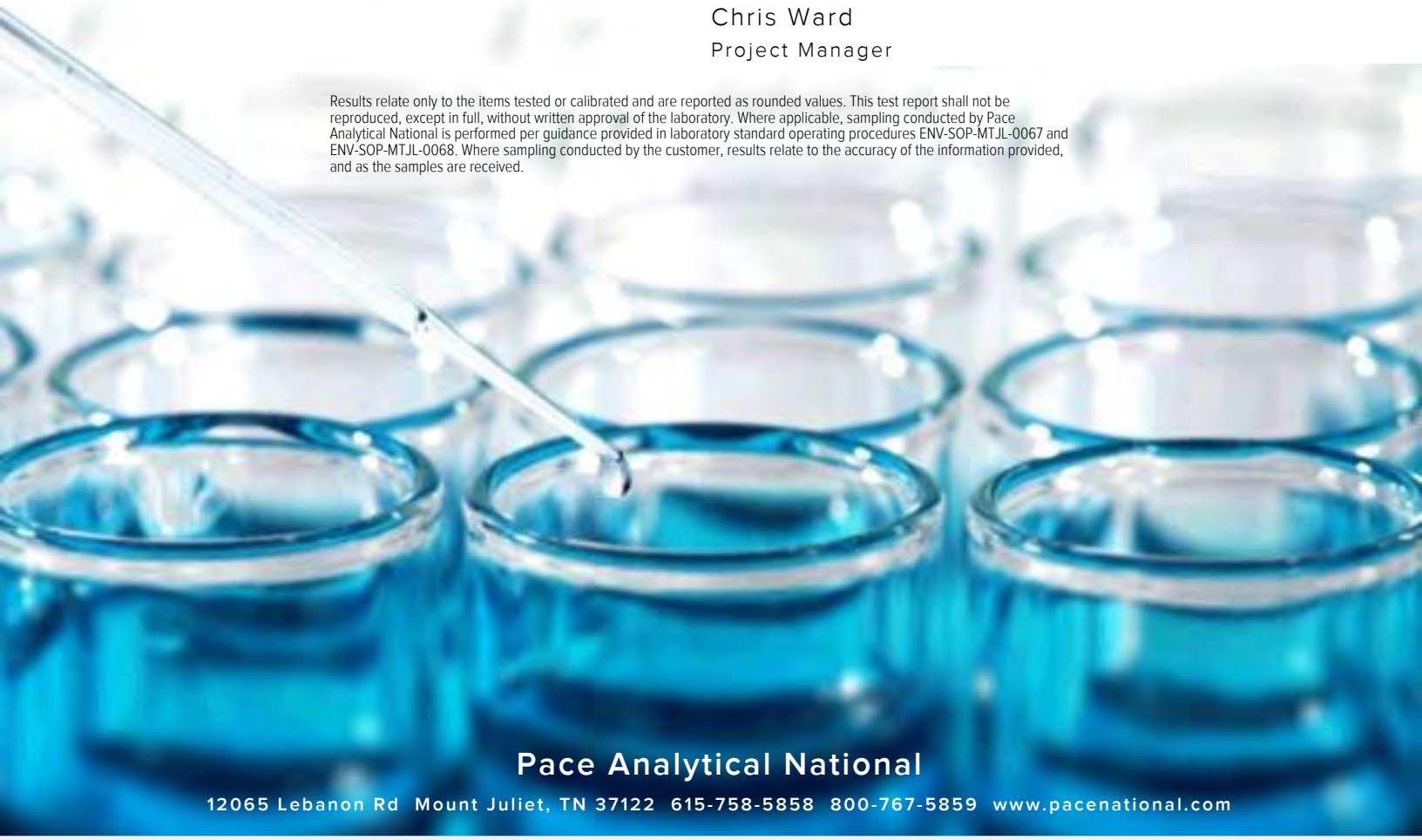
October 13, 2022

Confluence Compliance Companies - CO

Sample Delivery Group:	L1541680
Samples Received:	09/30/2022
Project Number:	315979
Description:	AEC005-Pinyon Ridge Fed C-1W (315979)
Site:	PINYON RIDGE FED C-1W/315979
Report To:	Chris McKisson 403 ½ Rockwood Lane Grand Junction, CO 81507

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1455) @ 1' L1541680-01 Solid

Collected by: Alex Slorby
Collected date/time: 09/28/22 14:55
Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:13	10/12/22 16:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:24	JPD	Mt. Juliet, TN

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.26		1	10/12/2022 16:13	WG1940413

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.75	T8	1	10/06/2022 18:00	WG1938132

Sample Narrative:

L1541680-01 WG1938132: 8.75 at 18.3C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.05		0.100	1.00	5	10/06/2022 14:24	WG1937115

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

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

Sample Narrative:

LCS: 9.91 at 18.7C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

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

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

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.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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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.
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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
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	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: D080

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: Info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address: NESE 21 3N97W 40.212620/-108.276390
Customer Project Name/Number: AEC005 - Pinyon Ridge Fed C-1W (315979)	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Pinyon Ridge Fed C-1W / 315979 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Alex Slorby	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): Alex Slorby	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: ____

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID (Sample Prefix: 20220928-PR_FED_C-1W-)	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Analyses: SAR, pH	Analyses: Arsenic	Lab Sample # / Comments
BG(1455)@1'	SL	G	9/28/2022	1455				1	P	X	X	L541680-01

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: ____			
Sample pH Acceptable	Y	N	NA
pH Strips: ____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: ____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: NS #10

Cooler 1 Temp Upon Receipt: .7 oC

Cooler 1 Therm Corr. Factor: -.9 oC

Cooler 1 Corrected Temp: -.2 oC

Comments:

Relinquished by/Company: (Signature) Alex Slorby	Date/Time: 9/29/22 1400	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time: 9/29/22 1600	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) D. Ramsey	Date/Time: 1000 09-30-22

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

ANALYTICAL REPORT

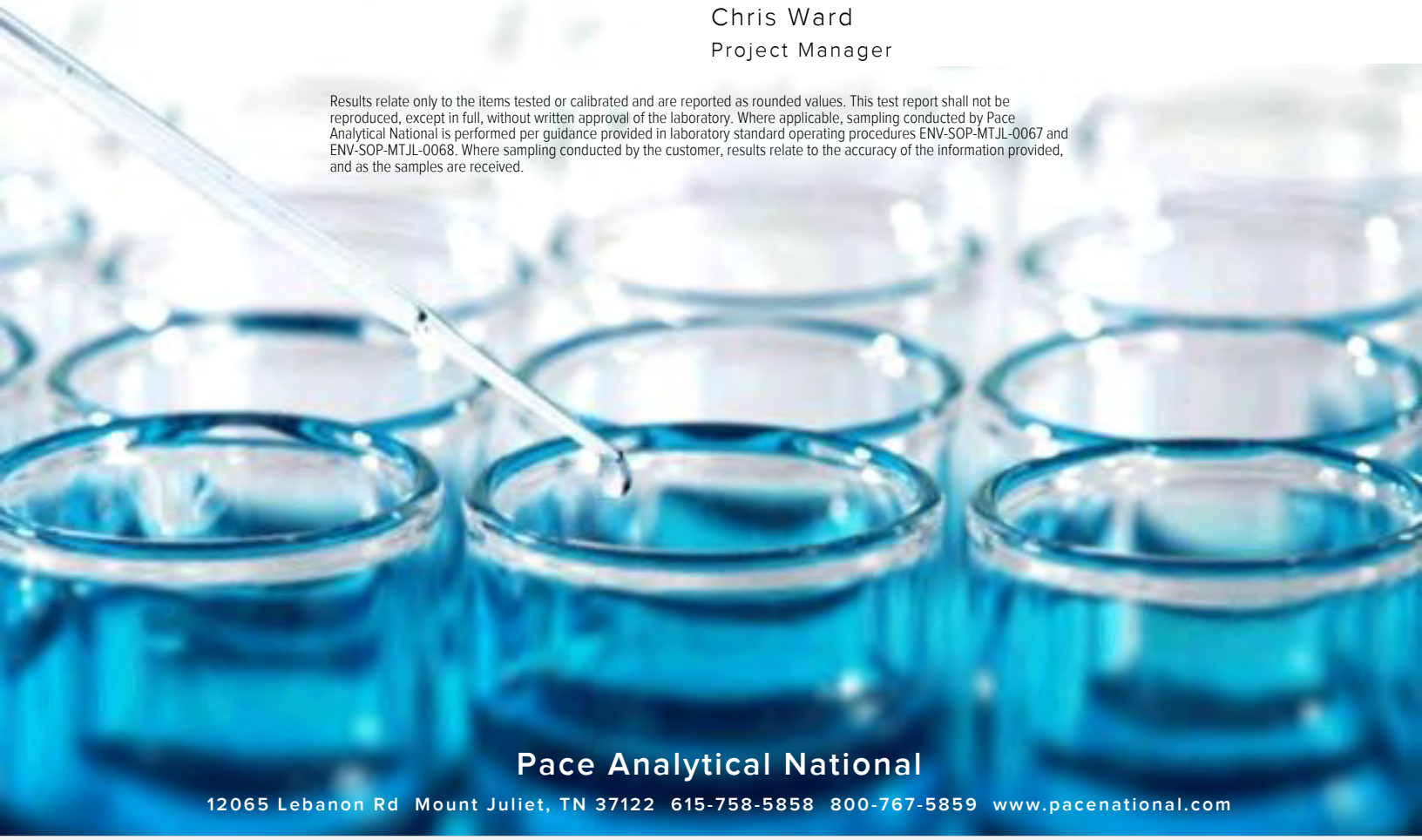
October 13, 2022

Confluence Compliance Companies - CO

Sample Delivery Group:	L1541681
Samples Received:	09/30/2022
Project Number:	315979
Description:	AEC005-Pinyon Ridge Fed C-1W (315979)
Site:	PINYON RIDGE FED C-1W/315979
Report To:	Chris McKisson 403 ½ Rockwood Lane Grand Junction, CO 81507

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1450) @ 1' L1541681-01 Solid

Collected by: Alex Slorby
Collected date/time: 09/28/22 14:50
Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:16	10/12/22 16:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:28	JPD	Mt. Juliet, TN

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.108		1	10/12/2022 16:16	WG1940413

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.33	T8	1	10/06/2022 18:00	WG1938132

Sample Narrative:

L1541681-01 WG1938132: 8.33 at 18.2C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.10		0.100	1.00	5	10/06/2022 14:28	WG1937115

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

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

Sample Narrative:

LCS: 9.91 at 18.7C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

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

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

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.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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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
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.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: D079

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: Info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address: NESE 21 3N97W 40.212620/-108.276390
Customer Project Name/Number: AEC005 - Pinyon Ridge Fed C-1W (315979)	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Pinyon Ridge Fed C-1W / 315979 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Alex Slorby	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): Alex Slorby	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID (Sample Prefix: 20220928-PR_FED_C-1W-)	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Analyses: SAR, pH	Analyses: Arsenic
BG(1450)@1'	SL	G	9/28/2022	1450				1	P	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:
L1541681
-01

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: NS NC
Cooler 1 Temp Upon Receipt: .7 oC
Cooler 1 Therm Corr. Factor: +0 oC
Cooler 1 Corrected Temp: .7 oC
Comments:

Relinquished by/Company: (Signature) Alex Slorby	Date/Time: 9/29/22 1400	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time: 9/29/22 1400	Received by/Company: (Signature)	Date/Time:	Table #: / Acctnum: / Template: / Prelogin: / PM: / PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) J. Ramsey	Date/Time: 09-30-22 0900	Trip Blank Received: Y N NA HCL MeOH TSP Other / Non Conformance(s): YES / NO / Page: ____ of: ____

ANALYTICAL REPORT

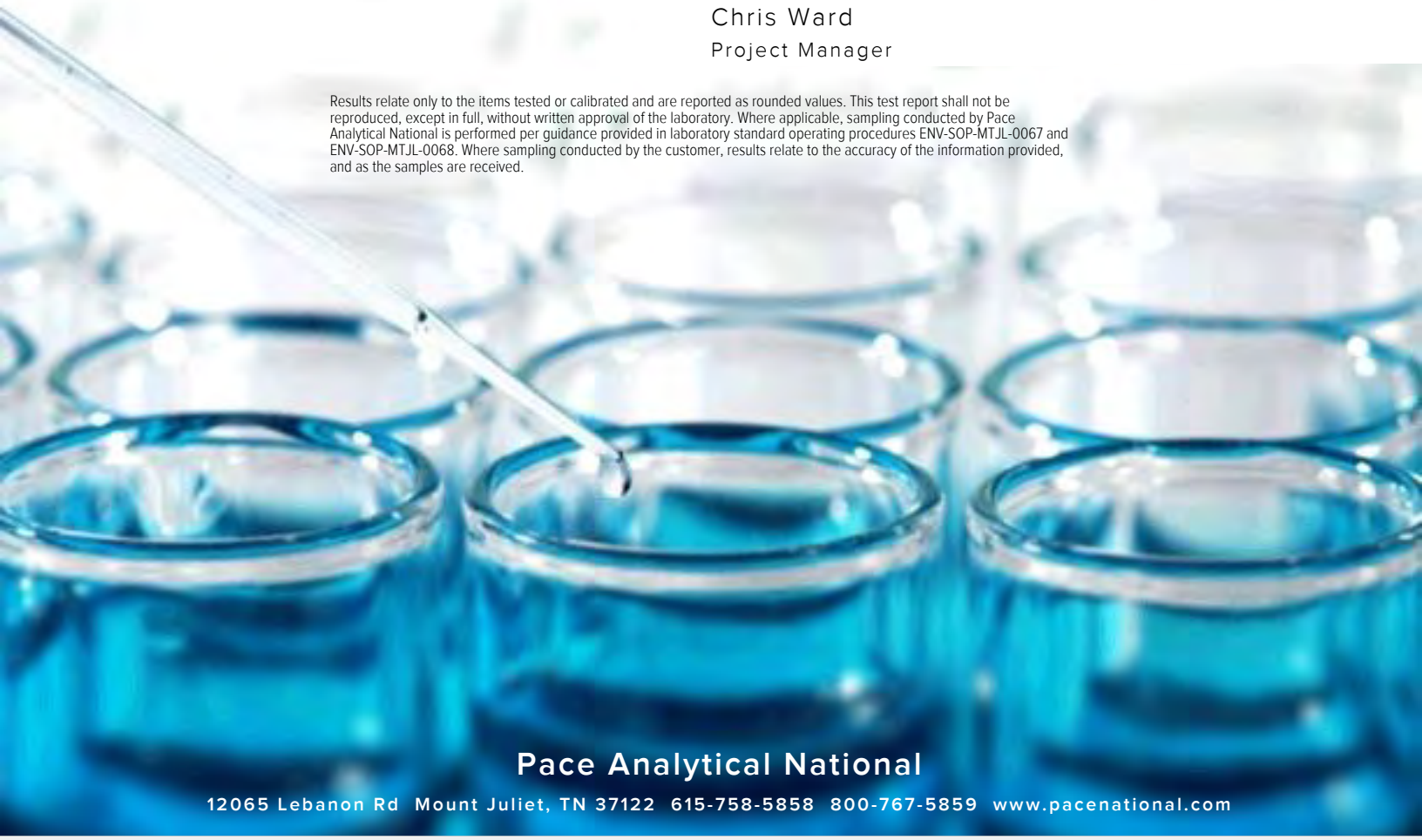
October 13, 2022

Confluence Compliance Companies - CO

Sample Delivery Group:	L1541678
Samples Received:	09/30/2022
Project Number:	315979
Description:	AEC005-Pinyon Ridge Fed C-1W (315979)
Site:	PINYON RIDGE FED C-1W/315979
Report To:	Chris McKisson 403 ½ Rockwood Lane Grand Junction, CO 81507

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1520) @ 1' L1541678-01 Solid

Collected by: Alex Slorby
Collected date/time: 09/28/22 15:20
Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:02	10/12/22 16:02	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:18	JPD	Mt. Juliet, TN

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0772		1	10/12/2022 16:02	WG1940413

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.37	T8	1	10/06/2022 18:00	WG1938132

Sample Narrative:

L1541678-01 WG1938132: 8.37 at 18.4C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.32		0.100	1.00	5	10/06/2022 14:18	WG1937115

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

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

Sample Narrative:

LCS: 9.91 at 18.7C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

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

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

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Qualifier	Description
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

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: D082

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: Info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address: NESE 21 3N97W 40.212620/-108.276390
Customer Project Name/Number: AEC005 - Pinyon Ridge Fed C-1W (315979)	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Pinyon Ridge Fed C-1W / 315979 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Alex Slorby	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): Alex Slorby	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID (Sample Prefix: 20220928-PR_FED_C-1W-)	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Analyses: SAR, pH	Analyses: Arsenic	Lab Sample # / Comments
BG(1520)@1'	SL	G	9/28/2022	1520				1	P	X	X	L1511678 -01

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: NS A6

Cooler 1 Temp Upon Receipt: .7 oC

Cooler 1 Therm Corr. Factor: +0 oC

Cooler 1 Corrected Temp: .7 oC

Comments:

Relinquished by/Company: (Signature) Alex Slorby	Date/Time: 9/29/22 1400	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time: 9/29/22 1600	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) D Ramsey	Date/Time: 09-30-22 1000

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

ANALYTICAL REPORT

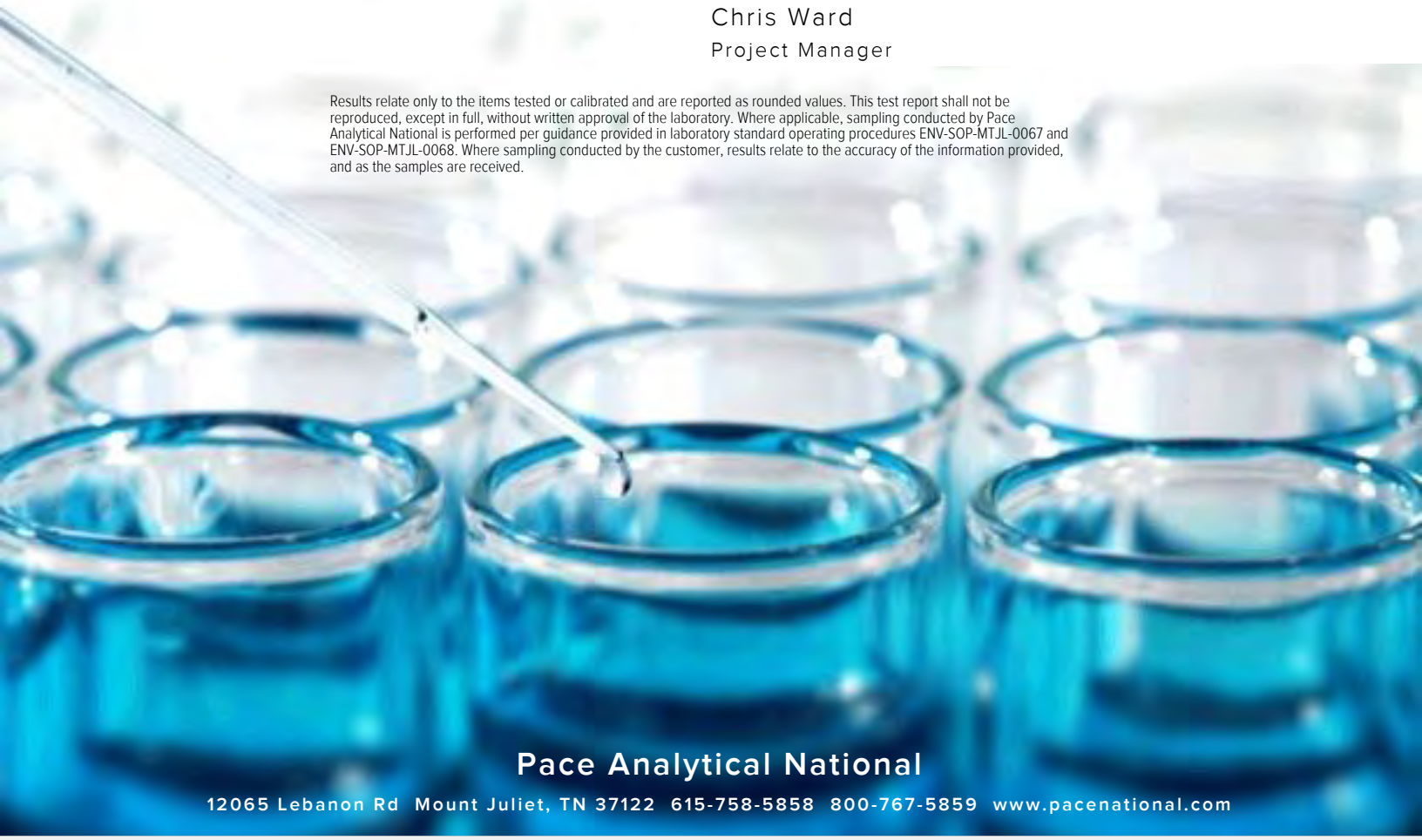
October 13, 2022

Confluence Compliance Companies - CO

Sample Delivery Group:	L1541679
Samples Received:	09/30/2022
Project Number:	315979
Description:	AEC005-Pinyon Ridge Fed C-1W (315979)
Site:	PINYON RIDGE FED C-1W/315979
Report To:	Chris McKisson 403 ½ Rockwood Lane Grand Junction, CO 81507

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1515) @ 1' L1541679-01 Solid

Collected by: Alex Slorby
Collected date/time: 09/28/22 15:15
Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:10	10/12/22 16:10	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:21	JPD	Mt. Juliet, TN

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0659		1	10/12/2022 16:10	WG1940413

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.29	T8	1	10/06/2022 18:00	WG1938132

Sample Narrative:

L1541679-01 WG1938132: 8.29 at 18.4C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.01		0.100	1.00	5	10/06/2022 14:21	WG1937115

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

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

Sample Narrative:

LCS: 9.91 at 18.7C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

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

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

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

Qualifier	Description
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	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: D081

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: Info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address: NESE 21 3N97W 40.212620/-108.276390
Customer Project Name/Number: AEC005 - Pinyon Ridge Fed C-1W (315979)	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Pinyon Ridge Fed C-1W / 315979 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Alex Slorby	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): Alex Slorby	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID (Sample Prefix: 20220928-PR_FED_C-1W-)	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Container Preservative Type **	Analyses: SAR, pH	Analyses: Arsenic	Lab Profile/Line: LAB USE ONLY Lab Sample # / Comments:
BG(1515)@1'	SL	G	9/28/2022	1515				1	P		X	X	L1541609 -01

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None / Packing Material Used: / Radchem sample(s) screened (<500 cpm): Y N NA
	SHORT HOLDS PRESENT (<72 hours): Y N N/A / Lab Tracking #: / Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: NSA16
Cooler 1 Temp Upon Receipt: 1 °C
Cooler 1 Therm Corr. Factor: +0 °C
Cooler 1 Corrected Temp: 1 °C
Comments:

Relinquished by/Company: (Signature) Alex Slorby	Date/Time: 9/29/22 1400	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time: 9/29/2160	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) D. Ramsey	Date/Time: 09-30-22 1000	

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

ANALYTICAL REPORT

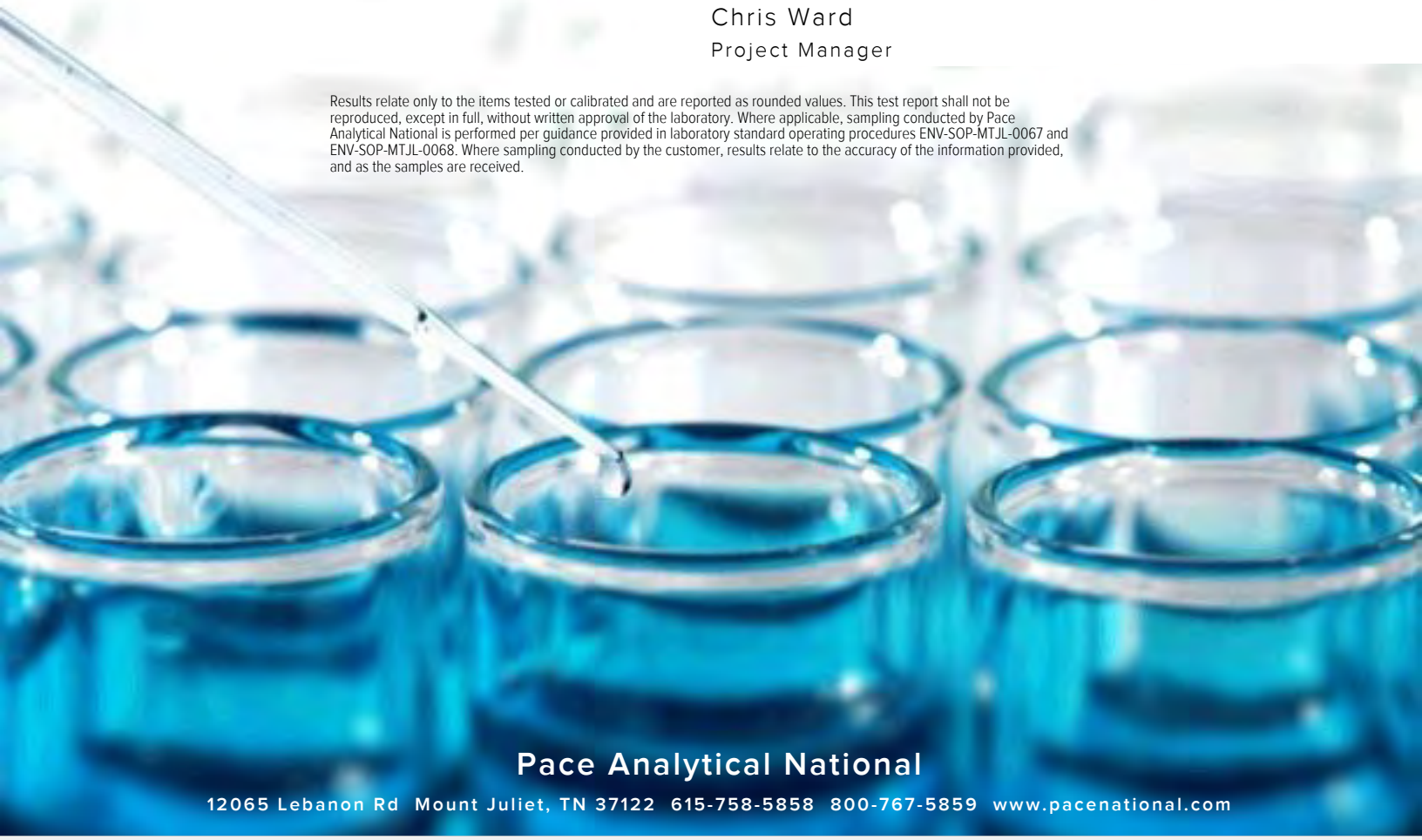
October 13, 2022

Confluence Compliance Companies - CO

Sample Delivery Group:	L1541682
Samples Received:	09/30/2022
Project Number:	315979
Description:	AEC005-Pinyon Ridge Fed C-1W (315979)
Site:	PINYON RIDGE FED C-1W/315979
Report To:	Chris McKisson 403 ½ Rockwood Lane Grand Junction, CO 81507

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1440) @ 1' L1541682-01 Solid

Collected by: Alex Slorby
Collected date/time: 09/28/22 14:40
Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:19	10/12/22 16:19	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939090	1	10/07/22 14:00	10/07/22 16:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:31	JPD	Mt. Juliet, TN

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0894		1	10/12/2022 16:19	WG1940413

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	T8	1	10/07/2022 16:00	WG1939090

Sample Narrative:

L1541682-01 WG1939090: 8.19 at 21.1C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.16		0.100	1.00	5	10/06/2022 14:31	WG1937115

L1540921-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1540921-04 10/07/22 16:00 • (DUP) R3845985-2 10/07/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	11.2	11.2	1	0.0896		1

Sample Narrative:

OS: 11.15 at 22.5C

DUP: 11.16 at 22.4C

L1541823-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541823-01 10/07/22 16:00 • (DUP) R3845985-3 10/07/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.92	7.96	1	0.504		1

Sample Narrative:

OS: 7.92 at 20.9C

DUP: 7.96 at 21.1C

Laboratory Control Sample (LCS)

(LCS) R3845985-1 10/07/22 16:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 20C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

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

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

GLOSSARY OF TERMS

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Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
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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
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.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: D078

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Confluence Compliance Companies	Billing Information: Info on file
Address: Info on file	
Report To: Chris McKisson	Email To: Info on file
Copy To: Chris McKisson, remediation@confluence-cc.com	Site Collection Info/Address: NESE 21 3N97W 40.212620/-108.276390
Customer Project Name/Number: AEC005 - Pinyon Ridge Fed C-1W (315979)	State: CO / County/City: Rio Blanco / Time Zone Collected: [ ]PT [X]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Pinyon Ridge Fed C-1W / 315979 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Alex Slorby	Purchase Order # : / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): Alex Slorby	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID (Sample Prefix: 20220928-PR_FED_C-1W-)	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	SAR, pH	Arsenic
BG(1440)@1'	SL	G	9/28/2022	1440				1	P	X	X

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:	
Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:
L1541082
-01

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
Packing Material Used:	Lab Tracking #:
Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: NS A6
Cooler 1 Temp Upon Receipt: 1.7 oC
Cooler 1 Therm Corr. Factor: -1.0 oC
Cooler 1 Corrected Temp: 0.7 oC
Comments:

Relinquished by/Company: (Signature) Alex Slorby	Date/Time: 9/29/22 1400	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time: 9/29/22 1600	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) D. Ramsey	Date/Time: 09-30-22 0900

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

ANALYTICAL REPORT

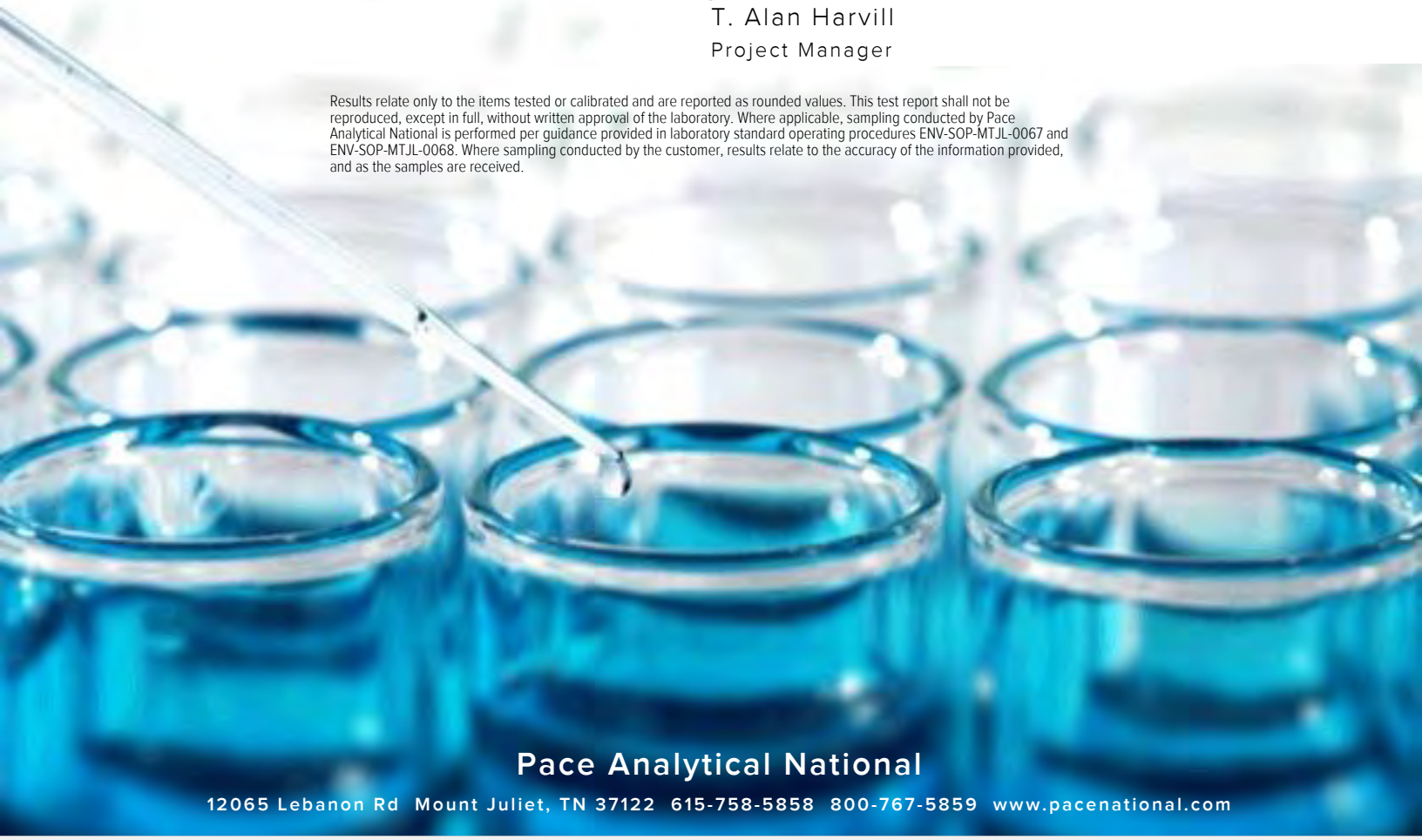
October 16, 2023

Anschutz Exploration Corporation

Sample Delivery Group:	L1662745
Samples Received:	10/04/2023
Project Number:	
Description:	Pinyon Ridge
Site:	PINYON RIDGE
Report To:	Schuyler Hamilton 555 17th Street Suite 2400 Denver, CO 80202

Entire Report Reviewed By:

T. Alan Harvill
Project Manager



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

TABLE OF CONTENTS

SAMPLE SUMMARY

231003_PINYONRIDGE_PW L1662745-01 WW

Collected by: Ahmed Shah
Collected date/time: 10/03/23 12:30
Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Cr C-2011	WG2148999	1	10/12/23 13:36	10/12/23 13:36	SET	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG2146374	1	10/08/23 13:00	10/08/23 13:00	BJM	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2147294	5	10/08/23 08:23	10/10/23 12:56	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2145211	5	10/09/23 16:52	10/15/23 16:48	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2145211	500	10/09/23 16:52	10/16/23 09:58	SJM	Mt. Juliet, TN

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.

T. Alan Harvill
Project Manager

Wet Chemistry by Method 3500Cr C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.000150	0.000500	1	10/12/2023 13:36	WG2148999

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	6.46	T8	1	10/08/2023 13:00	WG2146374

Sample Narrative:

L1662745-01 WG2146374: 6.46 at 20.1C

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	26.5		0.198	1.00	5	10/10/2023 12:56	WG2147294

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000975	0.00500	5	10/15/2023 16:48	WG2145211
Barium	72.9		0.238	2.50	500	10/16/2023 09:58	WG2145211
Cadmium	U		0.000800	0.00500	5	10/15/2023 16:48	WG2145211
Copper	0.0621		0.00335	0.00500	5	10/15/2023 16:48	WG2145211
Lead	0.00440	J	0.00256	0.0100	5	10/15/2023 16:48	WG2145211
Nickel	U		0.00257	0.0100	5	10/15/2023 16:48	WG2145211
Selenium	U		0.00218	0.0100	5	10/15/2023 16:48	WG2145211
Silver	U		0.000720	0.00500	5	10/15/2023 16:48	WG2145211
Zinc	U		0.0398	0.100	5	10/15/2023 16:48	WG2145211

Method Blank (MB)

(MB) R3985466-1 10/12/23 08:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hexavalent Chromium	U		0.000150	0.000500

L1664748-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1664748-03 10/12/23 09:33 • (DUP) R3985466-5 10/12/23 09:44

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

L1665018-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1665018-01 10/12/23 12:28 • (DUP) R3985466-6 10/12/23 12:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.00154	0.00154	1	0.266		20

Laboratory Control Sample (LCS)

(LCS) R3985466-2 10/12/23 08:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	0.00200	0.00213	107	90.0-110	

L1664748-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664748-01 10/12/23 09:00 • (MS) R3985466-3 10/12/23 09:11 • (MSD) R3985466-4 10/12/23 09:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	0.0500	0.00182	0.0530	0.0532	102	103	1	90.0-110			0.394	20

L1665047-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1665047-01 10/12/23 13:01 • (MS) R3985466-7 10/12/23 13:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	0.0500	0.000351	0.0518	103	1	90.0-110	

L1662010-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1662010-02 10/08/23 13:00 • (DUP) R3983454-2 10/08/23 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.02	8.00	1	0.250		1

Sample Narrative:

OS: 8.02 at 20.8C

DUP: 8 at 20.5C

L1663044-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1663044-01 10/08/23 13:00 • (DUP) R3983454-3 10/08/23 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.97	6.97	1	0.000		1

Sample Narrative:

OS: 6.97 at 20.5C

DUP: 6.97 at 20.2C

Laboratory Control Sample (LCS)

(LCS) R3983454-1 10/08/23 13:00

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

Sample Narrative:

LCS: 10 at 20.7C

Method Blank (MB)

(MB) R3983802-8 10/09/23 12:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0396	0.200

Laboratory Control Sample (LCS)

(LCS) R3983802-9 10/09/23 12:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.985	98.5	85.0-115	

L1661900-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1661900-02 10/09/23 12:30 • (MS) R3983802-11 10/09/23 12:36 • (MSD) R3983802-12 10/09/23 12:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.216	1.13	1.23	91.0	102	1	70.0-130			9.04	20

L1661948-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1661948-02 10/09/23 12:41 • (MS) R3983802-13 10/09/23 12:43 • (MSD) R3983802-14 10/09/23 12:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.117	1.10	1.09	98.1	97.6	1	70.0-130			0.388	20

Method Blank (MB)

(MB) R3986510-1 10/15/23 15:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Cadmium	U		0.000160	0.00100
Copper	U		0.000670	0.00100
Lead	U		0.000513	0.00200
Nickel	U		0.000514	0.00200
Selenium	U		0.000437	0.00200
Silver	U		0.000144	0.00100
Zinc	U		0.00796	0.0200

Laboratory Control Sample (LCS)

(LCS) R3986510-2 10/15/23 15:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0524	105	85.0-115	
Barium	0.0500	0.0490	98.1	85.0-115	
Cadmium	0.0500	0.0517	103	85.0-115	
Copper	0.0500	0.0470	94.0	85.0-115	
Lead	0.0500	0.0523	105	85.0-115	
Nickel	0.0500	0.0516	103	85.0-115	
Selenium	0.0500	0.0492	98.3	85.0-115	
Silver	0.0500	0.0500	99.9	85.0-115	
Zinc	0.0500	0.0507	101	85.0-115	

L1661990-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1661990-02 10/15/23 15:10 • (MS) R3986510-4 10/15/23 15:16 • (MSD) R3986510-5 10/15/23 15:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000704	0.0534	0.0520	105	103	1	70.0-130			2.60	20
Barium	0.0500	0.0143	0.0654	0.0644	102	100	1	70.0-130			1.49	20
Cadmium	0.0500	U	0.0517	0.0514	103	103	1	70.0-130			0.466	20
Copper	0.0500	0.00871	0.0565	0.0547	95.7	92.0	1	70.0-130			3.26	20
Lead	0.0500	U	0.0544	0.0545	109	109	1	70.0-130			0.177	20
Nickel	0.0500	0.00223	0.0540	0.0528	104	101	1	70.0-130			2.24	20
Selenium	0.0500	U	0.0503	0.0501	101	100	1	70.0-130			0.338	20
Silver	0.0500	U	0.0498	0.0496	99.6	99.1	1	70.0-130			0.528	20
Zinc	0.0500	0.0229	0.0728	0.0717	99.7	97.5	1	70.0-130			1.57	20

L1662293-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662293-01 10/15/23 15:23 • (MS) R3986510-6 10/15/23 15:26 • (MSD) R3986510-7 10/15/23 15:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00206	0.0524	0.0527	101	101	1	70.0-130			0.710	20
Barium	0.0500	0.0186	0.0686	0.0678	99.9	98.3	1	70.0-130			1.14	20
Cadmium	0.0500	U	0.0535	0.0529	107	106	1	70.0-130			1.17	20
Copper	0.0500	0.00868	0.0549	0.0542	92.4	91.1	1	70.0-130			1.18	20
Lead	0.0500	0.000522	0.0551	0.0533	109	106	1	70.0-130			3.43	20
Nickel	0.0500	0.0559	0.108	0.106	105	99.8	1	70.0-130			2.30	20
Selenium	0.0500	U	0.0505	0.0510	101	102	1	70.0-130			1.04	20
Silver	0.0500	0.000167	0.0504	0.0504	100	100	1	70.0-130			0.0142	20
Zinc	0.0500	0.0735	0.127	0.129	106	111	1	70.0-130			1.77	20

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.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
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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
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Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Anschutz Exploration Corp	Billing Information: Info on file
Address: Info on file	
Report To: schuyler.hamilton@aec-denver.com	Email To: Info on file
Copy To: sage.maher@confluence-cc.com; remediation@confluence-cc.com	Site Collection Info/Address:
Customer Project Name/Number: Pinyon Ridge	State: CO / County/City: Mesa / Time Zone Collected: [ ] PT [✓] MT [ ] CT [ ] ET
Phone: Info on file Email: Info on file	Site/Facility ID #: Pinyon Ridge / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Ahmed Shah	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard TAT / Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [✓] No / Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TABLE 915-1 VOCs	TPH-(GRO, DRO, ORO)	TABLE 915-1 METALS LIST	TABLE 915-1 PAHs	pH, EC, SAR	Boron (hot water soluble)	Cr6	pH
231003_PinyonRidge_PW	WW	GRAB	10/03/23	1230				2			X					X

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

L1662745
-01

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 6525 5572 2085

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: 4.9 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.9 oC
Comments:
pH adj. 10/4/23 1837

Relinquished by/Company: (Signature)	Date/Time: 10/03/2023 1630	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time: 10/3/23 1700	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) alexa Mitchell @	Date/Time: 10/4/23 0900

D248

Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____