

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
COLEMAN C23-32 TANK BATTERY, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-270

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
AST01@0.5'	10/17/2023	0.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST02@0.5'	10/17/2023	0.5'	<0.0020	<0.0050	<0.0050	<0.010	0.008	<0.0050	<0.0038	<0.50	<50	<50
AST03@0.5'	10/17/2023	0.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV01-BE@5'	10/17/2023	5'	0.004	<0.0050	0.07	0.05	0.870	0.05	0.09	12	350	160
PWV01-BW@5'	10/17/2023	5'	<0.0020	<0.0050	0.26	1.00	5.300	0.66	0.16	87	390	190
PWV01-E@4'	10/17/2023	4'	0.004	<0.0050	<0.0050	0.04	0.039	0.01	<0.0038	<0.50	<50	<50
PWV01-N@4'	10/17/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV01-NE@4'	10/17/2023	4'	<0.0020	<0.0050	<0.0050	0.04	0.048	0.03	0.01	<0.50	<50	<50
PWV01-NW@4'	10/17/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	0.033	<0.0050	<0.0038	<0.50	240	150
PWV01-S@4'	10/17/2023	4'	0.003	<0.0050	<0.0050	0.08	0.059	0.02	<0.0038	<0.50	<50	<50
PWV01-SE@4'	10/17/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	0.007	<0.0050	<0.0038	<0.50	<50	<50
PWV01-SW@4'	10/17/2023	4'	<0.0020	<0.0050	0.01	0.02	0.140	0.02	0.01	<0.50	210	120
PWV01-W@4'	10/17/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	0.005	<0.0050	<0.0038	<0.50	<50	<50
SEP01-DL@4'	10/17/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

Green highlighted cells indicate soil removed via excavation

* Indicates laboratory minimum detection limit in excess of SSL

** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
COLEMAN C23-32 TANK BATTERY, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-270

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST01@0.5'	10/17/2023	0.5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST02@0.5'	10/17/2023	0.5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0078
AST03@0.5'	10/17/2023	0.5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00736
PWV01-BE@5'	10/17/2023	5'	0.029	<0.00500	0.010	<0.00500	<0.00500	<0.00500	0.00734	<0.00500	0.008	0.0359	<0.00500	<0.00500	0.539	1.1
PWV01-BW@5'	10/17/2023	5'	0.035	<0.00500	0.016	<0.00500	<0.00500	<0.00500	0.0117	<0.00500	0.011	0.0125	<0.00500	0.006	0.505	0.949
PWV01-E@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV01-N@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV01-NE@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00666
PWV01-NW@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00502	0.0104
PWV01-S@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV01-SE@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV01-SW@4'	10/17/2023	4'	0.009	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0278	0.0407
PWV01-W@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01-DL@4'	10/17/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)
* Indicates laboratory minimum detection limit in excess of SSL
NA - Not analyzed
Green highlighted cells indicate soil removed via excavation

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
COLEMAN C23-32 TANK BATTERY, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-270

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration (or Concentration Range)			8.66	-	5.96	-
AST01@0.5'	10/17/2023	0.5'	8.65	0.569	2.13	<2.00
AST02@0.5'	10/17/2023	0.5'	8.63	0.934	6.09	<2.00
AST03@0.5'	10/17/2023	0.5'	8.64	0.399	2.06	<2.00
PWV01-BE@5'	10/17/2023	5'	7.86	0.475	1.7	<2.00
PWV01-BW@5'	10/17/2023	5'	8.32	0.719	3.03	<2.00
PWV01-E@4'	10/17/2023	4'	8.18	0.494	2.3	<2.00
PWV01-N@4'	10/17/2023	4'	8.78	0.37	1.49	<2.00
PWV01-NE@4'	10/17/2023	4'	7.97	0.372	1.18	<2.00
PWV01-NW@4'	10/17/2023	4'	8.98	1.04	8.2	<2.00
PWV01-S@4'	10/17/2023	4'	7.72	0.849	3.25	<2.00
PWV01-SE@4'	10/17/2023	4'	8.21	0.817	1.89	<2.00
PWV01-SW@4'	10/17/2023	4'	8.02	1.43	3.86	<2.00
PWV01-W@4'	10/17/2023	4'	8.22	0.877	3.8	<2.00
SEP01-DL@4'	10/17/2023	4'	7.97	0.591	1.39	<2.00
BKG01@0.5'	10/17/2023	0.5'	8.53	0.432	3.42	<2.00
BKG01@4'	10/17/2023	4'	8.28	0.766	5.96	<2.00
BKG01@5'	10/17/2023	5'	7.68	2.69	3.3	<2.00
BKG02@0.5'	10/17/2023	0.5'	8.66	0.394	2.48	<2.00
BKG02@4'	10/17/2023	4'	8.50	0.529	4.46	<2.00
BKG02@5'	10/17/2023	5'	8.35	0.742	4.75	<2.00
BKG03@0.5'	10/17/2023	0.5'	8.24	0.439	3.05	<2.00
BKG03@4'	10/17/2023	4'	8.56	0.393	2.71	<2.00
BKG03@5'	10/17/2023	5'	8.26	0.771	5.45	<2.00
BKG04@0.5'	10/17/2023	0.5'	8.44	0.395	2.43	<2.00
BKG04@4'	10/17/2023	4'	8.38	0.709	5.75	<2.00
BKG04@5'	10/17/2023	5'	8.10	1.17	5.62	<2.00
BKG05@0.5'	10/17/2023	0.5'	8.11	0.584	4.41	<2.00
BKG05@4'	10/17/2023	4'	8.47	0.559	5.25	<2.00
BKG05@5'	10/17/2023	5'	8.21	0.859	5.08	<2.00

Bold faced, yellow highlighted values exceed the ECMC Table 915-1 concentrations

Green highlighted cells indicate soil removed via excavation

Orange highlighted cells exceed of the maximum background concentration, or concentration range

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
COLEMAN C23-32 TANK BATTERY, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-270

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
125% Max. Background Concentration			1.4	353	-	-	-	-	-	6.31	-	-
AST01@0.5'	10/17/2023	0.5'	0.864	37.6	<0.200	<0.30	2.69	3.62	1.49	2.95	<0.0200	7.31
AST02@0.5'	10/17/2023	0.5'	0.559	44.2	<0.200	<0.30	1.72	3.52	1.13	3.07	<0.0200	4.69
AST03@0.5'	10/17/2023	0.5'	0.814	45.4	<0.200	<0.30	3.21	3.98	1.65	3.20	0.0204	8.16
BKG01@0.5'	10/17/2023	0.5'	0.958	206	0.27	<0.30	3.54	12.2	2.87	4.21	0.0537	10.4
PWV01-BE@5'	10/17/2023	5'	1.05	148	<0.200	<0.30	3.17	8.6	2.44	3.12	0.0422	9.38
PWV01-BW@5'	10/17/2023	5'	0.69	40.6	<0.200	<0.30	2.18	2.65	1.4	2.71	<0.0200	5.72
PWV01-E@4'	10/17/2023	4'	1.05	197	<0.200	<0.30	3.61	10.8	2.77	3.78	0.0546	11.2
PWV01-N@4'	10/17/2023	4'	0.815	236	<0.200	<0.30	3.31	10.3	2.68	3.47	0.0448	9.18
PWV01-NE@4'	10/17/2023	4'	1.11	200	<0.200	<0.30	3.61	10.6	2.71	3.72	0.0561	9.77
PWV01-NW@4'	10/17/2023	4'	1.08	194	<0.200	<0.30	3.7	10.3	2.76	3.77	0.0554	11
PWV01-S@4'	10/17/2023	4'	0.94	157	<0.200	<0.30	2.16	8.3	2.08	3.68	0.0257	8.28
PWV01-SE@4'	10/17/2023	4'	1.17	269	0.217	<0.30	3.98	12.7	2.87	3.87	0.0596	10.3
PWV01-SW@4'	10/17/2023	4'	1.01	130	<0.200	<0.30	3.46	8.44	2.54	3.67	0.0345	9.84
PWV01-W@4'	10/17/2023	4'	1.11	156	0.252	<0.30	4.27	11	2.65	3.81	0.0571	15.8
SEP01-DL@4'	10/17/2023	4'	1	158	0.321	<0.30	3.7	12.2	2.88	4.16	0.0625	13.2
BKG01@4'	10/17/2023	4'	0.878	130	0.21	<0.30	3.39	11.1	2.64	4.10	0.0452	10.2
BKG01@5'	10/17/2023	5'	1.09	282	0.25	<0.30	4.03	14.1	3.07	4.83	0.0507	11.8
BKG02@0.5'	10/17/2023	0.5'	0.857	177	0.243	<0.30	3.27	11.6	2.68	3.91	0.0608	9.74
BKG02@4'	10/17/2023	4'	0.944	255	0.268	<0.30	3.68	12.9	2.98	4.46	0.0692	10.9
BKG02@5'	10/17/2023	5'	0.972	276	0.25	<0.30	3.64	13.4	2.67	4.79	0.0675	10.7
BKG03@0.5'	10/17/2023	0.5'	0.995	169	0.327	<0.30	4.38	12.9	2.95	4.9	0.0849	14.1
BKG03@4'	10/17/2023	4'	0.738	174	0.212	<0.30	2.79	10.3	2.18	3.9	0.0518	8.11
BKG03@5'	10/17/2023	5'	0.929	229	0.243	<0.30	3.73	13.2	2.97	5.05	0.0576	10.8
BKG04@0.5'	10/17/2023	0.5'	0.856	133	0.329	<0.30	6.18	11	2.66	4.76	0.0657	19
BKG04@4'	10/17/2023	4'	0.886	204	0.243	<0.30	3.37	11.9	2.74	4.8	0.0504	10
BKG04@5'	10/17/2023	5'	0.854	166	0.24	<0.30	3.63	12.2	2.76	4.89	0.0516	10.8
BKG05@0.5'	10/17/2023	0.5'	0.884	178	0.23	<0.30	3.31	11.5	2.62	4.76	0.0522	10.4
BKG05@4'	10/17/2023	4'	0.824	142	0.262	<0.30	3.24	11.1	2.76	4.75	0.0461	9.74
BKG05@5'	10/17/2023	5'	0.863	156	0.249	<0.30	3.76	11.8	2.83	4.88	0.0453	11.1

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

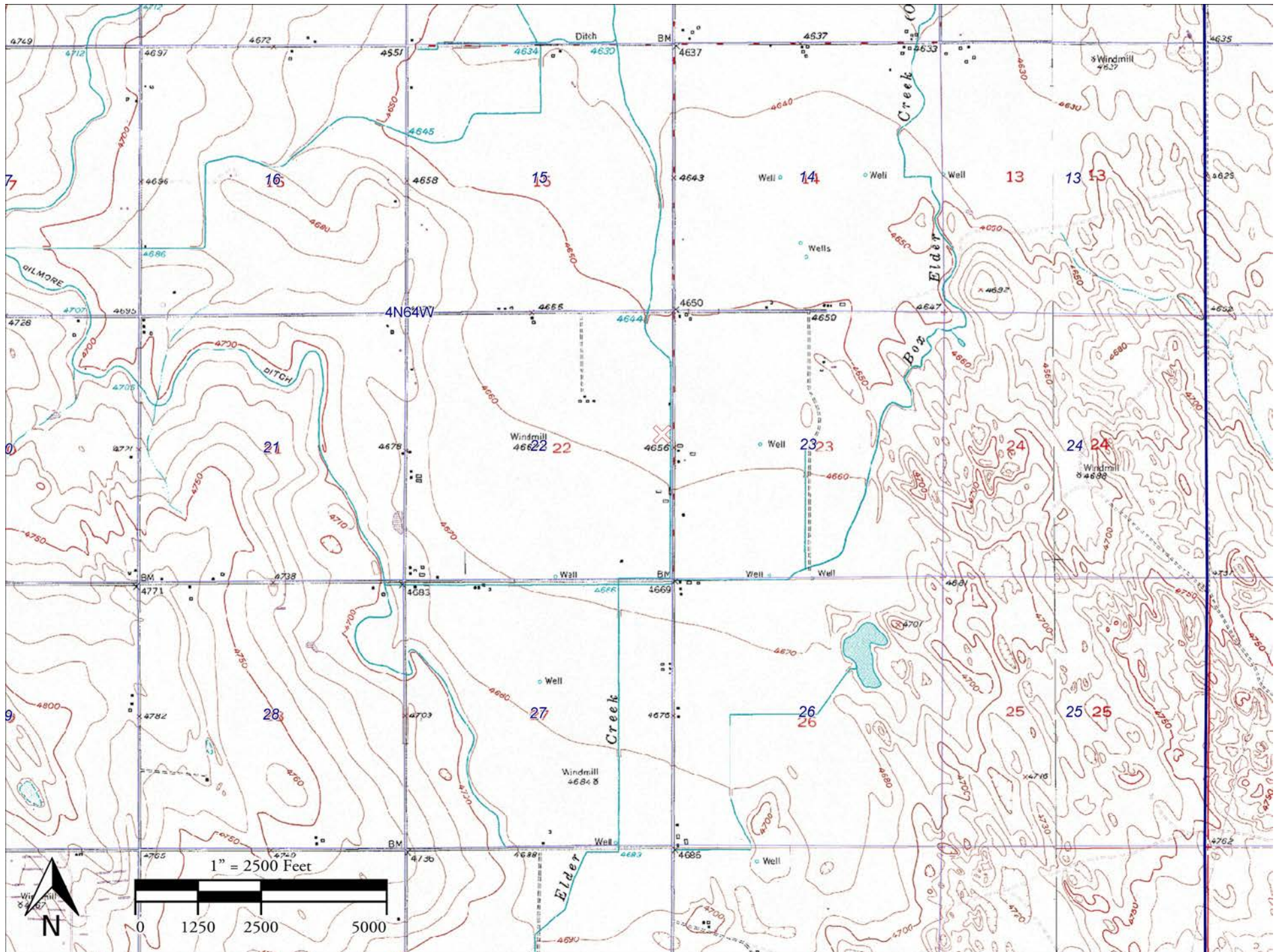
Orange highlighted cells exceed 125% of the maximum background concentration

* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed

Coleman C23-32 Tank Battery



Coleman C23-32 Tank Battery

Legal: QtrQtr: SENE Sec: 22 Twp: 4N Range: 64W Meridian: 6
Lat/Long: 40.301014 , -104.527819
API: 418345
Remediation: 30390
Fremont Project #: C023-270

Legend

● Impacted Sample Location

PWV01-NW@4'
PWV01-BW@5
PWV01-NE@4'
PWV01-BE@5'
PWV01-S@4'
PWV01-E@4

Photo Log



Description:

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Photo Log



Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 11, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Coleman C23-32 Tank Battery

Work Order #2310326

Enclosed are the results of analyses for samples received by Summit Scientific on 10/17/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery

Project Number: UWRWE-A2613-ABN

Project Manager: Paul Henchan

Reported:
01/11/24 09:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV01-BW@5'	2310326-01	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-BE@5'	2310326-02	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-N@4'	2310326-03	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-NW@4'	2310326-04	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-NE@4'	2310326-05	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-S@4'	2310326-06	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-SE@4'	2310326-07	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-SW@4'	2310326-08	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-W@4'	2310326-09	Soil	10/17/23 00:00	10/17/23 16:30
PWV01-E@4'	2310326-10	Soil	10/17/23 00:00	10/17/23 16:30
WC01@0.5'	2310326-11	Soil	10/17/23 00:00	10/17/23 16:30
AST01@0.5'	2310326-12	Soil	10/17/23 00:00	10/17/23 16:30
AST02@0.5'	2310326-13	Soil	10/17/23 00:00	10/17/23 16:30
AST03@0.5'	2310326-14	Soil	10/17/23 00:00	10/17/23 16:30
SEP01-DL@4'	2310326-15	Soil	10/17/23 00:00	10/17/23 16:30
BKG01@0.5'	2310326-16	Soil	10/17/23 00:00	10/17/23 16:30
BKG01@4'	2310326-17	Soil	10/17/23 00:00	10/17/23 16:30
BKG01@5'	2310326-18	Soil	10/17/23 00:00	10/17/23 16:30
BKG02@0.5'	2310326-19	Soil	10/17/23 00:00	10/17/23 16:30
BKG02@4'	2310326-20	Soil	10/17/23 00:00	10/17/23 16:30
BKG02@5'	2310326-21	Soil	10/17/23 00:00	10/17/23 16:30
BKG03@0.5'	2310326-22	Soil	10/17/23 00:00	10/17/23 16:30
BKG03@4'	2310326-23	Soil	10/17/23 00:00	10/17/23 16:30
BKG03@5'	2310326-24	Soil	10/17/23 00:00	10/17/23 16:30
BKG04@0.5'	2310326-25	Soil	10/17/23 00:00	10/17/23 16:30
BKG04@4'	2310326-26	Soil	10/17/23 00:00	10/17/23 16:30
BKG04@5'	2310326-27	Soil	10/17/23 00:00	10/17/23 16:30

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery

Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG05@0.5'	2310326-28	Soil	10/17/23 00:00	10/17/23 16:30
BKG05@4'	2310326-29	Soil	10/17/23 00:00	10/17/23 16:30
BKG05@5'	2310326-30	Soil	10/17/23 00:00	10/17/23 16:30

Summit Scientific

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SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2310326-1	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble/Chevron	
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location: <u>Coleman C23-32 Tanks Battery</u>	
City/State/Zip: Wellington, CO, 80549		AFE#: <u>UWRWE-A2613-ABN</u>	
Phone: 603-477-6907	Project Name: <u>Coleman C23-32 Tanks Battery</u>	PO/Billing Codes:	
Sampler Name: Aaron Otillar	Project Number:	Contact: Mike Montoya	

					Preservative				Matrix				Analysis Requested							Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	SAR, EC, pH, Boron	TDS, Cl, SO4	
1	PW101-BWES'	10/17/23		2			2			X			X	X	X	X	X	X		
2	PW101-BEES'																			
3	PW101-NW4'																			
4	PW101-NWE4'																			
5	PW101-NE4'																			
6	PW101-SE4'																			
7	PW101-SE4'																			
8	PW101-SWE4'																			
9	PW101-W4'																			
10	PW101-EE4'																			
11	WC01@0.5'																			
12	AST01@0.5'																			
13	AST02@0.5'																			
14	AST03@0.5'																			
15	SEP01-DL4'																			

Relinquished by: <u>Aaron Otillar</u>	Date/Time: <u>10/17/23 1400</u>	Received by: <u>Summit North Dropbox</u>	Date/Time: <u>10/17/23 1400</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>10/17/23 1630</u>	Received by: <u>[Signature]</u>	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>19.1</u>		Corrected Temperature <u>19.1</u>		IR gun #: <u>1</u>	HNO3 lot #:	

SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2310326.2	

Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address: 8305 6th Street		Project Manager: Paul Henehan		Company: Noble/Chevron	
City/State/Zip: Wellington, CO, 80549		E-Mail: Fremont Distribution List		Project Name/Location: <u>Coleman C23-32 Tank Battery</u>	
Phone: 603-477-6907		Project Name: <u>Coleman C23-32 Tank Battery</u>		AFE#: <u>UWRWE - A2613-ABN</u>	
Sampler Name: Aaron Otilar		Project Number:		PO/Billing Codes:	
				Contact: Mike Montoya	

					Preservative				Matrix			Analysis Requested							Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	SAR, EC, pH, Boron	TDS, Cl, SO4		
1	BK601 @ 0.5'	10/17/23		1			1			X							X	X			
2	BK601 @ 4'																				
3	BK601 @ 5'																				
4	BK602 @ 0.5'																				
5	BK602 @ 4'																				
6	BK602 @ 5'																				
7	BK603 @ 0.5'																				
8	BK603 @ 4'																				
9	BK603 @ 5'																				
10	BK604 @ 0.5'																				
11	BK604 @ 4'																				
12	BK604 @ 5'																				
13	BK605 @ 0.5'																				
14	BK605 @ 4'																				
15	BK605 @ 5'																				

Relinquished by: <u>Aaron Otilar</u>	Date/Time: <u>10/17/23 1400</u>	Received by: <u>Summit North Dropbox</u>	Date/Time: <u>10/17/23 1400</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>SZ</u>	Date/Time: <u>10/17/23 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/17/23 1630</u>	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>(9.1)</u>	Corrected Temperature <u>6</u>	IR gun #:		HNO3 lot #:		

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2310326Client: FremontClient Project ID: Coleman C23-32 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply)

Air ☐Soil/Solid ☒Water ☐Other ☐Temp (°C) 19.1Thermometer # 1

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

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

10/17/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-BW@5'
2310326-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/17/23 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.26	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.0	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.3	0.050	"	10	"	"	10/18/23	"	
1,3,5-Trimethylbenzene	0.66	0.0050	"	1	"	"	10/19/23	"	
Naphthalene	0.16	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	87	5.0	"	10	"	"	10/18/23	"	

Date Sampled: 10/17/23 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0440	110 %	50-150		"	"	10/19/23	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0779	195 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/17/23 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	390	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	190	50	"	"	"	"	"	"	

Date Sampled: 10/17/23 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	83.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-BW@5'
2310326-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0353	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0163	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0117	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0110	0.00500	"	"	"	"	"	"	
Fluorene	0.0125	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00606	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.505	0.0500	"	10	"	"	10/20/23	"	
2-Methylnaphthalene	0.949	0.0500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.2 %	40-150		"	"	10/19/23	"	
Surrogate: Fluoranthene-d10	0.0280	83.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-BW@5'
2310326-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.690	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	40.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.18	0.400	"	"	"	"	"	"
Lead	2.65	0.200	"	"	"	"	"	"
Nickel	1.40	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	5.72	0.400	"	"	"	"	"	"
Selenium	2.71	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.1	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	6.50	0.0500	"	"	"	"	"	"	
Sodium	78.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.03	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-BW@5'
2310326-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.719	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-BE@5'
2310326-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0042	0.0020	mg/kg	1	BGJ0729	10/18/23	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.071	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.048	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.87	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.052	0.0050	"	"	"	"	"	"	
Naphthalene	0.088	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	12	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0401	100 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0395	98.7 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0507	127 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	350	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	160	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	10.7	85.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PWV01-BE@5'
2310326-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0293	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0104	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00734	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00785	0.00500	"	"	"	"	"	"	
Fluorene	0.0359	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.539	0.0500	"	10	"	"	10/20/23	"	
2-Methylnaphthalene	1.10	0.0500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.2 %	40-150		"	"	10/19/23	"	
Surrogate: Fluoranthene-d10	0.0250	75.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-BE@5'
2310326-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.05	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	148	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.17	0.400	"	"	"	"	"	"
Lead	8.60	0.200	"	"	"	"	"	"
Nickel	2.44	0.400	"	"	"	"	"	"
Silver	0.0422	0.0200	"	"	"	"	"	"
Zinc	9.38	0.400	"	"	"	"	"	"
Selenium	3.12	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.5	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	13.0	0.0500	"	"	"	"	"	"	
Sodium	43.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.70	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-BE@5'
2310326-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.4	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.475	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-N@4'
2310326-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0435	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-N@4'
2310326-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	45.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	52.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-N@4'
2310326-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.815	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	236	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.31	0.400	"	"	"	"	"	"
Lead	10.3	0.200	"	"	"	"	"	"
Nickel	2.68	0.400	"	"	"	"	"	"
Silver	0.0448	0.0200	"	"	"	"	"	"
Zinc	9.18	0.400	"	"	"	"	"	"
Selenium	3.47	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	102	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	20.4	0.0500	"	"	"	"	"	"	
Sodium	63.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.49	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-N@4'
2310326-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.370	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.78		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NW@4'
2310326-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.033	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0436	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0442	111 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	240	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	150	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.6	92.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NW@4'
2310326-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.00502	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0104	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0133	39.8 %	40-150		"	"	"	"	S-04
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NW@4'
2310326-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.08	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	194	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.70	0.400	"	"	"	"	"	"
Lead	10.3	0.200	"	"	"	"	"	"
Nickel	2.76	0.400	"	"	"	"	"	"
Silver	0.0554	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	3.77	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.1	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	7.31	0.0500	"	"	"	"	"	"	
Sodium	184	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.20	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NW@4'
2310326-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.0	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NE@4'
2310326-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.039	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.048	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.028	0.0050	"	"	"	"	"	"	
Naphthalene	0.0057	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0409	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0435	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0445	111 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NE@4'
2310326-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00666	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NE@4'
2310326-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.11	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	200	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.61	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	2.71	0.400	"	"	"	"	"	"
Silver	0.0561	0.0200	"	"	"	"	"	"
Zinc	9.77	0.400	"	"	"	"	"	"
Selenium	3.72	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.2	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	6.37	0.0500	"	"	"	"	"	"	
Sodium	29.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-NE@4'
2310326-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.7	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.372	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-S@4'
2310326-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0032	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.078	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.059	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.024	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0439	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-S@4'
2310326-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-S@4'
2310326-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.940	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	157	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.16	0.400	"	"	"	"	"	"
Lead	8.30	0.200	"	"	"	"	"	"
Nickel	2.08	0.400	"	"	"	"	"	"
Silver	0.0257	0.0200	"	"	"	"	"	"
Zinc	8.28	0.400	"	"	"	"	"	"
Selenium	3.68	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.3	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	108	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.25	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-S@4'
2310326-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	74.7	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.849	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SE@4'
2310326-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0065	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0400	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0440	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.0	87.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SE@4'
2310326-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SE@4'
2310326-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.17	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	269	0.400	"	"	"	"	"	"
Cadmium	0.217	0.200	"	"	"	"	"	"
Copper	3.98	0.400	"	"	"	"	"	"
Lead	12.7	0.200	"	"	"	"	"	"
Nickel	2.87	0.400	"	"	"	"	"	"
Silver	0.0596	0.0200	"	"	"	"	"	"
Zinc	10.3	0.400	"	"	"	"	"	"
Selenium	3.87	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.2	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	13.9	0.0500	"	"	"	"	"	"	
Sodium	68.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.89	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SE@4'
2310326-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	75.2	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.817	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SW@4'
2310326-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.010	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.024	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.14	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.021	0.0050	"	"	"	"	"	"	
Naphthalene	0.0084	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0463	116 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	120	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.1	96.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SW@4'
2310326-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00875	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0278	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0407	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SW@4'
2310326-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.01	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	130	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.46	0.400	"	"	"	"	"	"
Lead	8.44	0.200	"	"	"	"	"	"
Nickel	2.54	0.400	"	"	"	"	"	"
Silver	0.0345	0.0200	"	"	"	"	"	"
Zinc	9.84	0.400	"	"	"	"	"	"
Selenium	3.67	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	97.4	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	18.9	0.0500	"	"	"	"	"	"	
Sodium	159	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.86	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-SW@4'
2310326-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.0	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.43	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-W@4'
2310326-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0413	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0445	111 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.4	91.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-W@4'
2310326-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-W@4'
2310326-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.11	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	156	0.400	"	"	"	"	"	"
Cadmium	0.252	0.200	"	"	"	"	"	"
Copper	4.27	0.400	"	"	"	"	"	"
Lead	11.0	0.200	"	"	"	"	"	"
Nickel	2.65	0.400	"	"	"	"	"	"
Silver	0.0571	0.0200	"	"	"	"	"	"
Zinc	15.8	0.400	"	"	"	"	"	"
Selenium	3.81	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.3	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	11.7	0.0500	"	"	"	"	"	"	
Sodium	116	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.80	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/17/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-W@4'
2310326-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.0	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.877	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-E@4'
2310326-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0035	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.036	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.039	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.014	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0438	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0435	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.4	91.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-E@4'
2310326-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0170	51.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-E@4'
2310326-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.05	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	197	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.61	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	2.77	0.400	"	"	"	"	"	"
Silver	0.0546	0.0200	"	"	"	"	"	"
Zinc	11.2	0.400	"	"	"	"	"	"
Selenium	3.78	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.0	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	8.13	0.0500	"	"	"	"	"	"	
Sodium	59.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.30	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PWV01-E@4'
2310326-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.2	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.494	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

WC01@0.5'
2310326-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.047	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.44	0.0050	"	"	"	"	"	"	
Xylenes (total)	15	1.0	"	100	"	"	10/19/23	"	
1,2,4-Trimethylbenzene	16	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	8.4	0.50	"	"	"	"	"	"	
Naphthalene	0.11	0.0038	"	1	"	"	10/19/23	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0466	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0721	180 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	64	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.9	87.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

WC01@0.5'
2310326-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0335	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00895	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00620	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00844	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00832	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.755	0.0500	"	10	"	"	10/20/23	"	
2-Methylnaphthalene	1.67	0.0500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.4 %	40-150		"	"	10/19/23	"	
Surrogate: Fluoranthene-d10	0.0237	71.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

WC01@0.5'
2310326-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.26	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	108	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.87	0.400	"	"	"	"	"	"
Lead	6.11	0.200	"	"	"	"	"	"
Nickel	3.49	0.400	"	"	"	"	"	"
Silver	0.0231	0.0200	"	"	"	"	"	"
Zinc	8.08	0.400	"	"	"	"	"	"
Selenium	3.58	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.0	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	6.55	0.0500	"	"	"	"	"	"	
Sodium	26.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.08	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

WC01@0.5'
2310326-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.295	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST01@0.5'
2310326-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.6	93.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST01@0.5'
2310326-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST01@0.5'
2310326-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.864	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	37.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.69	0.400	"	"	"	"	"	"
Lead	3.62	0.200	"	"	"	"	"	"
Nickel	1.49	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	7.31	0.400	"	"	"	"	"	"
Selenium	2.95	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.4	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	5.99	0.0500	"	"	"	"	"	"	
Sodium	48.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.13	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST01@0.5'
2310326-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	95.0			%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Summit Scientific

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST01@0.5'
2310326-12 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.569	0.0100	mmhos/cm	1	BGK0908	11/22/23	11/27/23	EPA 120.1	I-04

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BGK0907	10/24/23	11/27/23	EPA 9045D	I-04

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST02@0.5'
2310326-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0083	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0436	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.1	88.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST02@0.5'
2310326-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00780	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0170	51.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST02@0.5'
2310326-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.559	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	44.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.72	0.400	"	"	"	"	"	"
Lead	3.52	0.200	"	"	"	"	"	"
Nickel	1.13	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.69	0.400	"	"	"	"	"	"
Selenium	3.07	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.934	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST02@0.5'
2310326-13 (Soil)

Summit Scientific

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.6	0.0500	mg/L dry	1	BGL0939	10/23/23	12/29/23	EPA 6020B	
Magnesium	4.14	0.0500	"	"	"	"	"	"	
Sodium	107	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	6.09	0.00100	units	1	BGL1094	10/26/23	12/29/23	Calculation	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.63		pH Units	1	BGK0907	10/24/23	11/27/23	EPA 9045D	I-04

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST03@0.5'
2310326-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0442	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0432	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.5	92.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST03@0.5'
2310326-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00736	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	42.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST03@0.5'
2310326-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.814	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	45.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.21	0.400	"	"	"	"	"	"
Lead	3.98	0.200	"	"	"	"	"	"
Nickel	1.65	0.400	"	"	"	"	"	"
Silver	0.0204	0.0200	"	"	"	"	"	"
Zinc	8.16	0.400	"	"	"	"	"	"
Selenium	3.20	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.5	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	6.34	0.0500	"	"	"	"	"	"	
Sodium	46.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental	Project: Noble - Coleman C23-32 Tank Battery	
PO Box 1289	Project Number: UWRWE-A2613-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/11/24 09:03

AST03@0.5'
2310326-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.1	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

AST03@0.5'
2310326-14 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.399	0.0100	mmhos/cm	1	BGK0908	11/22/23	11/27/23	EPA 120.1	I-04

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.64		pH Units	1	BGK0907	10/24/23	11/27/23	EPA 9045D	I-04

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

SEP01-DL@4'
2310326-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0446	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0438	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	84.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

SEP01-DL@4'
2310326-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0178	53.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

SEP01-DL@4'
2310326-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.00	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B
Barium	158	0.400	"	"	"	"	"	"
Cadmium	0.321	0.200	"	"	"	"	"	"
Copper	3.70	0.400	"	"	"	"	"	"
Lead	12.2	0.200	"	"	"	"	"	"
Nickel	2.88	0.400	"	"	"	"	"	"
Silver	0.0625	0.0200	"	"	"	"	"	"
Zinc	13.2	0.400	"	"	"	"	"	"
Selenium	4.16	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.2	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	11.8	0.0500	"	"	"	"	"	"	
Sodium	44.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

SEP01-DL@4'
2310326-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.2	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.591	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG01@0.5'
2310326-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.958	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	206	0.400	"	"	"	"	"	"	
Cadmium	0.271	0.200	"	"	"	"	"	"	
Copper	3.54	0.400	"	"	"	"	"	"	
Lead	12.2	0.200	"	"	"	"	"	"	
Nickel	2.87	0.400	"	"	"	"	"	"	
Silver	0.0537	0.0200	"	"	"	"	"	"	
Zinc	10.4	0.400	"	"	"	"	"	"	
Selenium	4.21	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	25.5	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	4.49	0.0500	"	"	"	"	"	"	
Sodium	71.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG01@0.5'
2310326-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.42	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.3		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.432	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG01@4'
2310326-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.878	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	130	0.400	"	"	"	"	"	"	
Cadmium	0.208	0.200	"	"	"	"	"	"	
Copper	3.39	0.400	"	"	"	"	"	"	
Lead	11.1	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	0.0452	0.0200	"	"	"	"	"	"	
Zinc	10.2	0.400	"	"	"	"	"	"	
Selenium	4.10	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	28.8	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	4.75	0.0500	"	"	"	"	"	"	
Sodium	131	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG01@4'
2310326-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.96	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.9		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.766	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG01@5'
2310326-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.09	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	282	0.400	"	"	"	"	"	"	
Cadmium	0.251	0.200	"	"	"	"	"	"	
Copper	4.03	0.400	"	"	"	"	"	"	
Lead	14.1	0.200	"	"	"	"	"	"	
Nickel	3.07	0.400	"	"	"	"	"	"	
Silver	0.0507	0.0200	"	"	"	"	"	"	
Zinc	11.8	0.400	"	"	"	"	"	"	
Selenium	4.83	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	478	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	43.5	0.0500	"	"	"	"	"	"	
Sodium	281	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG01@5'
2310326-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.30	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.5		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.69	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG02@0.5'
2310326-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.857	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	177	0.400	"	"	"	"	"	"	
Cadmium	0.243	0.200	"	"	"	"	"	"	
Copper	3.27	0.400	"	"	"	"	"	"	
Lead	11.6	0.200	"	"	"	"	"	"	
Nickel	2.68	0.400	"	"	"	"	"	"	
Silver	0.0608	0.0200	"	"	"	"	"	"	
Zinc	9.74	0.400	"	"	"	"	"	"	
Selenium	3.91	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	27.4	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	5.68	0.0500	"	"	"	"	"	"	
Sodium	54.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG02@0.5'
2310326-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.48	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.394	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG02@4'
2310326-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.944	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	255	0.400	"	"	"	"	"	"	
Cadmium	0.268	0.200	"	"	"	"	"	"	
Copper	3.68	0.400	"	"	"	"	"	"	
Lead	12.9	0.200	"	"	"	"	"	"	
Nickel	2.98	0.400	"	"	"	"	"	"	
Silver	0.0692	0.0200	"	"	"	"	"	"	
Zinc	10.9	0.400	"	"	"	"	"	"	
Selenium	4.46	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	25.9	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	3.55	0.0500	"	"	"	"	"	"	
Sodium	91.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG02@4'
2310326-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.46	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.7		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.529	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG02@5'
2310326-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.972	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	276	0.400	"	"	"	"	"	"	
Cadmium	0.250	0.200	"	"	"	"	"	"	
Copper	3.64	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	2.67	0.400	"	"	"	"	"	"	
Silver	0.0675	0.0200	"	"	"	"	"	"	
Zinc	10.7	0.400	"	"	"	"	"	"	
Selenium	4.79	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	35.1	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	4.26	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG02@5'
2310326-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.75	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.742	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG03@0.5'
2310326-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.995	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	169	0.400	"	"	"	"	"	"	
Cadmium	0.327	0.200	"	"	"	"	"	"	
Copper	4.38	0.400	"	"	"	"	"	"	
Lead	12.9	0.200	"	"	"	"	"	"	
Nickel	2.95	0.400	"	"	"	"	"	"	
Silver	0.0849	0.0200	"	"	"	"	"	"	
Zinc	14.1	0.400	"	"	"	"	"	"	
Selenium	4.90	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	30.4	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	5.68	0.0500	"	"	"	"	"	"	
Sodium	69.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG03@0.5'
2310326-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.05	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.5		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.439	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG03@4'
2310326-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.738	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	174	0.400	"	"	"	"	"	"	
Cadmium	0.212	0.200	"	"	"	"	"	"	
Copper	2.79	0.400	"	"	"	"	"	"	
Lead	10.3	0.200	"	"	"	"	"	"	
Nickel	2.18	0.400	"	"	"	"	"	"	
Silver	0.0518	0.0200	"	"	"	"	"	"	
Zinc	8.11	0.400	"	"	"	"	"	"	
Selenium	3.90	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	24.4	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	4.29	0.0500	"	"	"	"	"	"	
Sodium	55.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG03@4'
2310326-23 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.71	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.393	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG03@5'
2310326-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.929	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	229	0.400	"	"	"	"	"	"	
Cadmium	0.243	0.200	"	"	"	"	"	"	
Copper	3.73	0.400	"	"	"	"	"	"	
Lead	13.2	0.200	"	"	"	"	"	"	
Nickel	2.97	0.400	"	"	"	"	"	"	
Silver	0.0576	0.0200	"	"	"	"	"	"	
Zinc	10.8	0.400	"	"	"	"	"	"	
Selenium	5.05	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	35.6	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	5.01	0.0500	"	"	"	"	"	"	
Sodium	131	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG03@5'
2310326-24 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.45	0.00100	units	1	BGJ1088	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.3		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.771	0.0100	mmhos/cm	1	BGJ0929	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG04@0.5'
2310326-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.856	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	133	0.400	"	"	"	"	"	"	
Cadmium	0.329	0.200	"	"	"	"	"	"	
Copper	6.18	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	2.66	0.400	"	"	"	"	"	"	
Silver	0.0657	0.0200	"	"	"	"	"	"	
Zinc	19.0	0.400	"	"	"	"	"	"	
Selenium	4.76	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	29.1	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	7.54	0.0500	"	"	"	"	"	"	
Sodium	56.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG04@0.5'
2310326-25 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.43	0.00100	units	1	BGJ1065	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.1		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.395	0.0100	mmhos/cm	1	BGJ0932	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BGJ0931	10/24/23	10/24/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG04@4'
2310326-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.886	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	204	0.400	"	"	"	"	"	"	
Cadmium	0.243	0.200	"	"	"	"	"	"	
Copper	3.37	0.400	"	"	"	"	"	"	
Lead	11.9	0.200	"	"	"	"	"	"	
Nickel	2.74	0.400	"	"	"	"	"	"	
Silver	0.0504	0.0200	"	"	"	"	"	"	
Zinc	10.0	0.400	"	"	"	"	"	"	
Selenium	4.80	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	26.4	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	4.32	0.0500	"	"	"	"	"	"	
Sodium	121	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG04@4'
2310326-26 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.75	0.00100	units	1	BGJ1065	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.5		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.709	0.0100	mmhos/cm	1	BGJ0932	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BGJ0931	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG04@5'
2310326-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.854	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	166	0.400	"	"	"	"	"	"	
Cadmium	0.240	0.200	"	"	"	"	"	"	
Copper	3.63	0.400	"	"	"	"	"	"	
Lead	12.2	0.200	"	"	"	"	"	"	
Nickel	2.76	0.400	"	"	"	"	"	"	
Silver	0.0516	0.0200	"	"	"	"	"	"	
Zinc	10.8	0.400	"	"	"	"	"	"	
Selenium	4.89	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	61.6	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	9.33	0.0500	"	"	"	"	"	"	
Sodium	179	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG04@5'
2310326-27 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.62	0.00100	units	1	BGJ1065	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.5		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.17	0.0100	mmhos/cm	1	BGJ0932	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BGJ0931	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG05@0.5'
2310326-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.884	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	178	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	3.31	0.400	"	"	"	"	"	"	
Lead	11.5	0.200	"	"	"	"	"	"	
Nickel	2.62	0.400	"	"	"	"	"	"	
Silver	0.0522	0.0200	"	"	"	"	"	"	
Zinc	10.4	0.400	"	"	"	"	"	"	
Selenium	4.76	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	26.3	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	5.35	0.0500	"	"	"	"	"	"	
Sodium	94.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG05@0.5'
2310326-28 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.41	0.00100	units	1	BGJ1065	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.584	0.0100	mmhos/cm	1	BGJ0932	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BGJ0931	10/24/23	10/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG05@4'
2310326-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.824	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	142	0.400	"	"	"	"	"	"	
Cadmium	0.262	0.200	"	"	"	"	"	"	
Copper	3.24	0.400	"	"	"	"	"	"	
Lead	11.1	0.200	"	"	"	"	"	"	
Nickel	2.76	0.400	"	"	"	"	"	"	
Silver	0.0461	0.0200	"	"	"	"	"	"	
Zinc	9.74	0.400	"	"	"	"	"	"	
Selenium	4.75	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	20.4	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	3.39	0.0500	"	"	"	"	"	"	
Sodium	97.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG05@4'
2310326-29 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.25	0.00100	units	1	BGJ1065	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.1		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.559	0.0100	mmhos/cm	1	BGJ0932	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BGJ0931	10/24/23	10/24/23	EPA 9045D	

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG05@5'
2310326-30 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGJ0921	10/24/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.863	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	156	0.400	"	"	"	"	"	"	
Cadmium	0.249	0.200	"	"	"	"	"	"	
Copper	3.76	0.400	"	"	"	"	"	"	
Lead	11.8	0.200	"	"	"	"	"	"	
Nickel	2.83	0.400	"	"	"	"	"	"	
Silver	0.0453	0.0200	"	"	"	"	"	"	
Zinc	11.1	0.400	"	"	"	"	"	"	
Selenium	4.88	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0882	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	41.9	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	6.57	0.0500	"	"	"	"	"	"	
Sodium	134	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

BKG05@5'
2310326-30 (Soil)

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Calculated Analysis

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.08	0.00100	units	1	BGJ1065	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.9		%	1	BGJ0885	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.859	0.0100	mmhos/cm	1	BGJ0932	10/24/23	10/24/23	EPA 120.1	

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

Date Sampled: **10/17/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BGJ0931	10/24/23	10/24/23	EPA 9045D	

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGJ0729 - EPA 5030 Soil MS

Blank (BGJ0729-BLK1)

Prepared & Analyzed: 10/18/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0445		"	0.0400		111	50-150			

LCS (BGJ0729-BS1)

Prepared & Analyzed: 10/18/23

Benzene	0.153	0.0020	mg/kg	0.100		153	70-130			QLCS-02
Toluene	0.145	0.0050	"	0.100		145	70-130			QLCS-02
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.196	0.010	"	0.200		98.0	70-130			
o-Xylene	0.0955	0.0050	"	0.100		95.5	70-130			
1,2,4-Trimethylbenzene	0.0998	0.0050	"	0.100		99.8	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0903	0.0038	"	0.100		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150			

Matrix Spike (BGJ0729-MS1)

Source: 2310319-01

Prepared & Analyzed: 10/18/23

Benzene	0.151	0.0020	mg/kg	0.100	ND	151	70-130			QLCS-02
Toluene	0.144	0.0050	"	0.100	ND	144	70-130			QLCS-02
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
m,p-Xylene	0.190	0.010	"	0.200	ND	95.0	70-130			
o-Xylene	0.0909	0.0050	"	0.100	ND	90.9	70-130			
1,2,4-Trimethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
1,3,5-Trimethylbenzene	0.0959	0.0050	"	0.100	ND	95.9	70-130			
Naphthalene	0.0867	0.0038	"	0.100	ND	86.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0446		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400		108	50-150			

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

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

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

Batch BGJ0729 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0729-MSD1)		Source: 2310319-01			Prepared & Analyzed: 10/18/23					
Benzene	0.164	0.0020	mg/kg	0.100	ND	164	70-130	8.40	30	QLCS-02
Toluene	0.157	0.0050	"	0.100	ND	157	70-130	8.94	30	QLCS-02
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	9.33	30	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130	9.03	30	
o-Xylene	0.0982	0.0050	"	0.100	ND	98.2	70-130	7.74	30	
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	7.74	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	9.02	30	
Naphthalene	0.0904	0.0038	"	0.100	ND	90.4	70-130	4.20	30	
Surrogate: 1,2-Dichloroethane-d4		0.0417	"	0.0400		104	50-150			
Surrogate: Toluene-d8		0.0446	"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene		0.0429	"	0.0400		107	50-150			

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGJ0732 - EPA 3550A

Blank (BGJ0732-BLK1)

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.4		"	12.5		99.4	30-150			

LCS (BGJ0732-BS1)

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	552	50	mg/kg	500		110	70-130			
Surrogate: o-Terphenyl	10.2		"	12.5		81.3	30-150			

Matrix Spike (BGJ0732-MS1)

Source: 2310319-01

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	496	50	mg/kg	500	45.6	90.1	70-130			
Surrogate: o-Terphenyl	11.7		"	12.5		94.0	30-150			

Matrix Spike Dup (BGJ0732-MSD1)

Source: 2310319-01

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	527	50	mg/kg	500	45.6	96.2	70-130	5.96	20	
Surrogate: o-Terphenyl	12.2		"	12.5		97.3	30-150			

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ0764 - EPA 5030 Soil MS

Blank (BGJ0764-BLK1)

Prepared & Analyzed: 10/19/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0272		"	0.0333		81.6		40-150			
Surrogate: Fluoranthene-d10	0.0287		"	0.0333		86.1		40-150			

LCS (BGJ0764-BS1)

Prepared & Analyzed: 10/19/23

Acenaphthene	0.0254	0.00500	mg/kg	0.0333		76.1		31-137			
Anthracene	0.0290	0.00500	"	0.0333		87.0		30-120			
Benzo (a) anthracene	0.0271	0.00500	"	0.0333		81.2		30-120			
Benzo (a) pyrene	0.0264	0.00500	"	0.0333		79.2		30-120			
Benzo (b) fluoranthene	0.0273	0.00500	"	0.0333		81.8		30-120			
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333		84.5		30-120			
Chrysene	0.0288	0.00500	"	0.0333		86.4		30-120			
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333		74.9		30-120			
Fluoranthene	0.0288	0.00500	"	0.0333		86.5		30-120			
Fluorene	0.0263	0.00500	"	0.0333		79.0		30-120			
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333		55.5		30-120			
Pyrene	0.0305	0.00500	"	0.0333		91.6		35-142			
1-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.2		35-142			
2-Methylnaphthalene	0.0283	0.00500	"	0.0333		84.8		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0281		"	0.0333		84.3		40-150			
Surrogate: Fluoranthene-d10	0.0288		"	0.0333		86.3		40-150			

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Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BGJ0764 - EPA 5030 Soil MS

Matrix Spike (BGJ0764-MS1)

Source: 2310347-01

Prepared & Analyzed: 10/19/23

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	54.8	31-137		
Anthracene	0.0190	0.00500	"	0.0333	ND	57.0	30-120		
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120		
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	47.9	30-120		
Benzo (b) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.0	30-120		
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.2	30-120		
Chrysene	0.0175	0.00500	"	0.0333	ND	52.5	30-120		
Dibenz (a,h) anthracene	0.0146	0.00500	"	0.0333	ND	43.8	30-120		
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120		
Fluorene	0.0185	0.00500	"	0.0333	ND	55.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0167	0.00500	"	0.0333	ND	50.0	30-120		
Pyrene	0.0185	0.00500	"	0.0333	ND	55.6	35-142		
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	15-130		
2-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0175		"	0.0333		52.4	40-150		
Surrogate: Fluoranthene-d10	0.0184		"	0.0333		55.3	40-150		

Matrix Spike Dup (BGJ0764-MSD1)

Source: 2310347-01

Prepared & Analyzed: 10/19/23

Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.2	31-137	0.684	30
Anthracene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	7.55	30
Benzo (a) anthracene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	10.1	30
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	9.93	30
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	10.1	30
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	11.3	30
Chrysene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	8.63	30
Dibenz (a,h) anthracene	0.0135	0.00500	"	0.0333	ND	40.5	30-120	7.99	30
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	10.4	30
Fluorene	0.0174	0.00500	"	0.0333	ND	52.3	30-120	5.76	30
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	2.01	30
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	11.9	30
1-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.8	15-130	4.67	50
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130	1.74	50
Surrogate: 2-Methylnaphthalene-d10	0.0168		"	0.0333		50.4	40-150		
Surrogate: Fluoranthene-d10	0.0167		"	0.0333		50.2	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

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

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

Batch BGJ0920 - EPA 3050B

Blank (BGJ0920-BLK1)

Prepared & Analyzed: 10/24/23

Boron ND 2.00 mg/L

LCS (BGJ0920-BS1)

Prepared & Analyzed: 10/24/23

Boron 4.20 2.00 mg/L 5.00 84.0 80-120

Duplicate (BGJ0920-DUP1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 0.175 2.00 mg/L 0.202 14.0 20

Matrix Spike (BGJ0920-MS1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 4.56 2.00 mg/L 5.00 0.202 87.2 75-125

Matrix Spike Dup (BGJ0920-MSD1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 4.59 2.00 mg/L 5.00 0.202 87.8 75-125 0.654 25

Batch BGJ0921 - EPA 3050B

Blank (BGJ0921-BLK1)

Prepared: 10/24/23 Analyzed: 10/25/23

Boron ND 2.00 mg/L

LCS (BGJ0921-BS1)

Prepared: 10/24/23 Analyzed: 10/25/23

Boron 4.99 2.00 mg/L 5.00 99.8 80-120

Duplicate (BGJ0921-DUP1)

Source: 2310326-09

Prepared: 10/24/23 Analyzed: 10/25/23

Boron 0.427 2.00 mg/L 0.0728 142 20 QR-01

Matrix Spike (BGJ0921-MS1)

Source: 2310326-09

Prepared: 10/24/23 Analyzed: 10/25/23

Boron 5.31 2.00 mg/L 5.00 0.0728 105 75-125

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Fremont Environmental	Project: Noble - Coleman C23-32 Tank Battery	
PO Box 1289	Project Number: UWRWE-A2613-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/11/24 09:03

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

Summit Scientific

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

Batch BGJ0921 - EPA 3050B

Matrix Spike Dup (BGJ0921-MSD1)		Source: 2310326-09			Prepared: 10/24/23 Analyzed: 10/25/23					
Boron	5.40	2.00	mg/L	5.00	0.0728	107	75-125	1.68	25	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0933 - EPA 3050B

Blank (BGJ0933-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

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

LCS (BGJ0933-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Arsenic	41.5	0.200	mg/kg wet	40.0	104	80-120
Barium	40.8	0.400	"	40.0	102	80-120
Cadmium	1.96	0.200	"	2.00	98.1	80-120
Copper	44.3	0.400	"	40.0	111	80-120
Lead	20.5	0.200	"	20.0	102	80-120
Nickel	42.3	0.400	"	40.0	106	80-120
Silver	1.96	0.0200	"	2.00	97.9	80-120
Zinc	41.3	0.400	"	40.0	103	80-120
Selenium	4.75	0.260	"	4.00	119	80-120

Duplicate (BGJ0933-DUP1)

Source: 2310326-01

Prepared: 10/24/23 Analyzed: 10/26/23

Arsenic	0.952	0.200	mg/kg dry	0.690	31.9	20	QR-01
Barium	68.4	0.400	"	40.6	51.1	20	QR-04
Cadmium	0.0695	0.200	"	0.0409	51.9	20	QR-01
Copper	2.86	0.400	"	2.18	26.8	20	QR-04
Lead	4.36	0.200	"	2.65	48.9	20	QR-04
Nickel	2.05	0.400	"	1.40	37.6	20	QR-01
Silver	0.0163	0.0200	"	0.0104	44.1	20	QR-01
Zinc	7.48	0.400	"	5.72	26.7	20	QR-04
Selenium	2.76	0.260	"	2.71	2.08	20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0933 - EPA 3050B

Matrix Spike (BGJ0933-MS1)

Source: 2310326-01

Prepared: 10/24/23 Analyzed: 10/26/23

Arsenic	17.3	0.200	mg/kg dry	45.4	0.690	36.7	75-125			QM-07
Barium	102	0.400	"	45.4	40.6	135	75-125			QM-07
Cadmium	2.16	0.200	"	2.27	0.0409	93.4	75-125			
Copper	20.2	0.400	"	45.4	2.18	39.8	75-125			QM-07
Lead	24.1	0.200	"	22.7	2.65	94.6	75-125			
Nickel	18.6	0.400	"	45.4	1.40	37.8	75-125			QM-07
Silver	2.06	0.0200	"	2.27	0.0104	90.3	75-125			
Zinc	25.5	0.400	"	45.4	5.72	43.6	75-125			QM-07
Selenium	7.19	0.260	"	4.54	2.71	98.8	75-125			

Matrix Spike Dup (BGJ0933-MSD1)

Source: 2310326-01

Prepared: 10/24/23 Analyzed: 10/26/23

Arsenic	17.6	0.200	mg/kg dry	45.4	0.690	37.2	75-125	1.30	25	QM-07
Barium	106	0.400	"	45.4	40.6	143	75-125	3.73	25	QM-07
Cadmium	2.22	0.200	"	2.27	0.0409	96.2	75-125	2.94	25	
Copper	20.4	0.400	"	45.4	2.18	40.1	75-125	0.686	25	QM-07
Lead	24.4	0.200	"	22.7	2.65	95.9	75-125	1.18	25	
Nickel	18.8	0.400	"	45.4	1.40	38.4	75-125	1.53	25	QM-07
Silver	2.12	0.0200	"	2.27	0.0104	92.9	75-125	2.82	25	
Zinc	23.4	0.400	"	45.4	5.72	38.9	75-125	8.64	25	QM-07
Selenium	7.29	0.260	"	4.54	2.71	101	75-125	1.37	25	

Batch BGJ0934 - EPA 3050B

Blank (BGJ0934-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0934 - EPA 3050B

LCS (BGJ0934-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Arsenic	42.3	0.200	mg/kg wet	40.0		106	80-120			
Barium	41.5	0.400	"	40.0		104	80-120			
Cadmium	1.96	0.200	"	2.00		98.2	80-120			
Copper	44.9	0.400	"	40.0		112	80-120			
Lead	20.4	0.200	"	20.0		102	80-120			
Nickel	43.0	0.400	"	40.0		107	80-120			
Silver	1.93	0.0200	"	2.00		96.7	80-120			
Zinc	41.7	0.400	"	40.0		104	80-120			
Selenium	4.08	0.260	"	4.00		102	80-120			

Duplicate (BGJ0934-DUP1)

Source: 2310313-01

Prepared: 10/24/23 Analyzed: 10/26/23

Arsenic	0.741	0.200	mg/kg dry		0.732			1.24	20	
Barium	365	0.400	"		334			8.84	20	
Cadmium	0.159	0.200	"		0.136			15.5	20	
Copper	1.48	0.400	"		1.48			0.281	20	
Lead	6.50	0.200	"		5.66			13.7	20	
Nickel	1.45	0.400	"		1.48			1.47	20	
Silver	0.0187	0.0200	"		0.0166			11.8	20	
Zinc	4.75	0.400	"		5.09			7.01	20	
Selenium	3.29	0.260	"		3.27			0.481	20	

Matrix Spike (BGJ0934-MS1)

Source: 2310313-01

Prepared: 10/24/23 Analyzed: 10/26/23

Arsenic	10.9	0.200	mg/kg dry	41.5	0.732	24.4	75-125			QM-07
Barium	357	0.400	"	41.5	334	56.7	75-125			QM-07
Cadmium	2.10	0.200	"	2.08	0.136	94.5	75-125			
Copper	12.2	0.400	"	41.5	1.48	25.8	75-125			QM-07
Lead	23.6	0.200	"	20.8	5.66	86.5	75-125			
Nickel	11.9	0.400	"	41.5	1.48	25.2	75-125			QM-07
Silver	1.92	0.0200	"	2.08	0.0166	91.8	75-125			
Zinc	15.0	0.400	"	41.5	5.09	23.8	75-125			QM-07
Selenium	7.31	0.260	"	4.15	3.27	97.3	75-125			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0934 - EPA 3050B

Matrix Spike Dup (BGJ0934-MSD1)		Source: 2310313-01			Prepared: 10/24/23 Analyzed: 10/26/23						
Arsenic	10.8	0.200	mg/kg dry	41.5	0.732	24.3	75-125	0.501	25		QM-07
Barium	354	0.400	"	41.5	334	47.8	75-125	1.04	25		QM-07
Cadmium	2.07	0.200	"	2.08	0.136	93.3	75-125	1.17	25		
Copper	12.1	0.400	"	41.5	1.48	25.5	75-125	1.12	25		QM-07
Lead	23.5	0.200	"	20.8	5.66	85.9	75-125	0.553	25		
Nickel	11.9	0.400	"	41.5	1.48	25.1	75-125	0.450	25		QM-07
Silver	1.89	0.0200	"	2.08	0.0166	90.3	75-125	1.63	25		
Zinc	14.8	0.400	"	41.5	5.09	23.4	75-125	1.01	25		QM-07
Selenium	7.20	0.260	"	4.15	3.27	94.5	75-125	1.61	25		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGJ0881 - 3060A Mod

Blank (BGJ0881-BLK1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ0881-BS1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BGJ0881-DUP1)

Source: 2310297-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ0881-MS1)

Source: 2310297-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 29.6 0.30 mg/kg dry 29.7 ND 99.6 75-125

Matrix Spike Dup (BGJ0881-MSD1)

Source: 2310297-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 28.8 0.30 mg/kg dry 29.7 ND 97.0 75-125 2.64 20

Batch BGJ0882 - 3060A Mod

Blank (BGJ0882-BLK1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ0882-BS1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 26.1 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGJ0882-DUP1)

Source: 2310326-11

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ0882-MS1)

Source: 2310326-11

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 28.4 0.30 mg/kg dry 30.8 ND 92.2 75-125

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Fremont Environmental	Project: Noble - Coleman C23-32 Tank Battery	
PO Box 1289	Project Number: UWRWE-A2613-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/11/24 09:03

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGJ0882 - 3060A Mod

Matrix Spike Dup (BGJ0882-MSD1)	Source: 2310326-11			Prepared & Analyzed: 10/23/23						
Chromium, Hexavalent	28.0	0.30	mg/kg dry	30.8	ND	91.0	75-125	1.31	20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

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

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

Batch BGJ0888 - General Preparation

Blank (BGJ0888-BLK1)

Prepared: 10/23/23 Analyzed: 10/26/23

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

LCS (BGJ0888-BS1)

Prepared: 10/23/23 Analyzed: 10/26/23

Calcium	5.45	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.04	0.0500	"	5.00	101	70-130
Sodium	6.09	0.0500	"	5.00	122	70-130

Batch BGJ0889 - General Preparation

Blank (BGJ0889-BLK1)

Prepared: 10/23/23 Analyzed: 10/26/23

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

LCS (BGJ0889-BS1)

Prepared: 10/23/23 Analyzed: 10/26/23

Calcium	5.42	0.0500	mg/L wet	5.00	108	70-130
Magnesium	5.39	0.0500	"	5.00	108	70-130
Sodium	5.61	0.0500	"	5.00	112	70-130

Batch BGL0939 - General Preparation

Blank (BGL0939-BLK1)

Prepared: 12/27/23 Analyzed: 12/29/23

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

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Fremont Environmental	Project: Noble - Coleman C23-32 Tank Battery	
PO Box 1289	Project Number: UWRWE-A2613-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/11/24 09:03

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

Summit Scientific

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

Batch BGL0939 - General Preparation

LCS (BGL0939-BS1)				Prepared: 12/27/23 Analyzed: 12/29/23						
Calcium	5.76	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.16	0.0500	"	5.00		103	70-130			
Sodium	5.03	0.0500	"	5.00		101	70-130			

Summit Scientific

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Fremont Environmental	Project: Noble - Coleman C23-32 Tank Battery	
PO Box 1289	Project Number: UWRWE-A2613-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/11/24 09:03

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

Summit Scientific

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

Batch BGJ0885 - General Preparation

Duplicate (BGJ0885-DUP1)	Source: 2310326-01			Prepared & Analyzed: 10/23/23						
% Solids	88.8		%		88.1			0.813	20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

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

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

Batch BGJ0929 - General Preparation

Blank (BGJ0929-BLK1)

Prepared & Analyzed: 10/24/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0929-BS1)

Prepared & Analyzed: 10/24/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGJ0929-DUP1)

Source: 2310326-01

Prepared & Analyzed: 10/24/23

Specific Conductance (EC) 0.719 0.0100 mmhos/cm 0.719 0.00 20

Batch BGJ0932 - General Preparation

Blank (BGJ0932-BLK1)

Prepared & Analyzed: 10/24/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0932-BS1)

Prepared & Analyzed: 10/24/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGJ0932-DUP1)

Source: 2310318-01

Prepared & Analyzed: 10/24/23

Specific Conductance (EC) 0.334 0.0100 mmhos/cm 0.334 0.00 20

Batch BGK0908 - General Preparation

Blank (BGK0908-BLK1)

Prepared: 11/22/23 Analyzed: 11/27/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0908-BS1)

Prepared: 11/22/23 Analyzed: 11/27/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.9 95-105

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery

Project Number: UWRWE-A2613-ABN

Project Manager: Paul Henchan

Reported:
01/11/24 09:03

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

Summit Scientific

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

Batch BGK0908 - General Preparation

Duplicate (BGK0908-DUP1)		Source: 2310326-12RE1			Prepared: 11/22/23 Analyzed: 11/27/23					
Specific Conductance (EC)	0.557	0.0100	mmhos/cm		0.569		2.20		20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery
Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

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

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

Batch BGJ0930 - General Preparation

LCS (BGJ0930-BS1)

Prepared & Analyzed: 10/24/23

pH	9.09		pH Units	9.18	99.0	95-105
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Duplicate (BGJ0930-DUP1)

Source: 2310326-01

Prepared & Analyzed: 10/24/23

pH	8.32		pH Units	8.32	0.00	20
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Batch BGJ0931 - General Preparation

LCS (BGJ0931-BS1)

Prepared & Analyzed: 10/24/23

pH	9.09		pH Units	9.18	99.0	95-105
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Duplicate (BGJ0931-DUP1)

Source: 2310318-01

Prepared & Analyzed: 10/24/23

pH	8.13		pH Units	8.13	0.00	20
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Batch BGK0907 - General Preparation

LCS (BGK0907-BS1)

Prepared: 11/22/23 Analyzed: 11/27/23

pH	9.11		pH Units	9.18	99.2	95-105
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Duplicate (BGK0907-DUP1)

Source: 2309489-01RE1

Prepared: 11/22/23 Analyzed: 11/27/23

pH	8.50		pH Units	8.52	0.235	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman C23-32 Tank Battery

Project Number: UWRWE-A2613-ABN
Project Manager: Paul Henchan

Reported:
01/11/24 09:03

Notes and Definitions

S-04	A sample matrix effect prevented complete surrogate recovery.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QLCS-02	The spike recovery was outside acceptance limits for this analyte indicating a potential high bias.
I-04	Sample was analyzed out of recommended holding time per clients request.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference