

**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	<b>0.008</b>	<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'	<b>0.004</b>	<0.0050	0.07	0.05	<b>0.870</b>	<b>0.05</b>	<b>0.09</b>	<b>12</b>	<b>350</b>	<b>160</b>
PWV01-BW@5'	10/17/2023	5'	<0.0020	<0.0050	0.26	1.00	<b>5.300</b>	<b>0.66</b>	<b>0.16</b>	<b>87</b>	<b>390</b>	<b>190</b>
PWV01-E@4'	10/17/2023	4'	<b>0.004</b>	<0.0050	<0.0050	0.04	<b>0.039</b>	<b>0.01</b>	<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	<b>0.048</b>	<b>0.03</b>	<b>0.01</b>	<0.50	<50	<50
PWV01-NW@4'	10/17/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<b>0.033</b>	<0.0050	<0.0038	<0.50	240	150
PWV01-S@4'	10/17/2023	4'	<b>0.003</b>	<0.0050	<0.0050	0.08	<b>0.059</b>	<b>0.02</b>	<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	<b>0.140</b>	<b>0.02</b>	<b>0.01</b>	<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	<b>0.539</b>	<b>1.1</b>
PWV01-BW@5'	10/17/2023	5'	0.035	<0.00500	<b>0.016</b>	<0.00500	<0.00500	<0.00500	0.0117	<0.00500	0.011	0.0125	<0.00500	0.006	<b>0.505</b>	<b>0.949</b>
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	<b>0.0278</b>	<b>0.0407</b>
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	<b>6.09</b>	<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'	<b>8.78</b>	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'	<b>8.98</b>	1.04	<b>8.2</b>	<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'	<b>8.53</b>	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'	<b>8.66</b>	0.394	2.48	<2.00
BKG02@4'	10/17/2023	4'	<b>8.50</b>	0.529	4.46	<2.00
BKG02@5'	10/17/2023	5'	<b>8.35</b>	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'	<b>8.56</b>	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'	<b>8.44</b>	0.395	2.43	<2.00
BKG04@4'	10/17/2023	4'	<b>8.38</b>	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'	<b>8.47</b>	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'	<b>0.878</b>	<b>130</b>	0.21	<0.30	3.39	11.1	2.64	<b>4.10</b>	0.0452	10.2
BKG01@5'	10/17/2023	5'	<b>1.09</b>	<b>282</b>	0.25	<0.30	4.03	<b>14.1</b>	3.07	<b>4.83</b>	0.0507	11.8
BKG02@0.5'	10/17/2023	0.5'	<b>0.857</b>	<b>177</b>	0.243	<0.30	3.27	11.6	2.68	<b>3.91</b>	0.0608	9.74
BKG02@4'	10/17/2023	4'	<b>0.944</b>	<b>255</b>	0.268	<0.30	3.68	12.9	2.98	<b>4.46</b>	0.0692	10.9
BKG02@5'	10/17/2023	5'	<b>0.972</b>	<b>276</b>	0.25	<0.30	3.64	13.4	2.67	<b>4.79</b>	0.0675	10.7
BKG03@0.5'	10/17/2023	0.5'	<b>0.995</b>	<b>169</b>	0.327	<0.30	4.38	12.9	2.95	<b>4.9</b>	0.0849	14.1
BKG03@4'	10/17/2023	4'	<b>0.738</b>	<b>174</b>	0.212	<0.30	2.79	10.3	2.18	<b>3.9</b>	0.0518	8.11
BKG03@5'	10/17/2023	5'	<b>0.929</b>	<b>229</b>	0.243	<0.30	3.73	13.2	2.97	<b>5.05</b>	0.0576	10.8
BKG04@0.5'	10/17/2023	0.5'	<b>0.856</b>	<b>133</b>	0.329	<0.30	6.18	11	2.66	<b>4.76</b>	0.0657	19
BKG04@4'	10/17/2023	4'	<b>0.886</b>	<b>204</b>	0.243	<0.30	3.37	11.9	2.74	<b>4.8</b>	0.0504	10
BKG04@5'	10/17/2023	5'	<b>0.854</b>	<b>166</b>	0.24	<0.30	3.63	12.2	2.76	<b>4.89</b>	0.0516	10.8
BKG05@0.5'	10/17/2023	0.5'	<b>0.884</b>	<b>178</b>	0.23	<0.30	3.31	11.5	2.62	<b>4.76</b>	0.0522	10.4
BKG05@4'	10/17/2023	4'	<b>0.824</b>	<b>142</b>	0.262	<0.30	3.24	11.1	2.76	<b>4.75</b>	0.0461	9.74
BKG05@5'	10/17/2023	5'	<b>0.863</b>	<b>156</b>	0.249	<0.30	3.76	11.8	2.83	<b>4.88</b>	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)

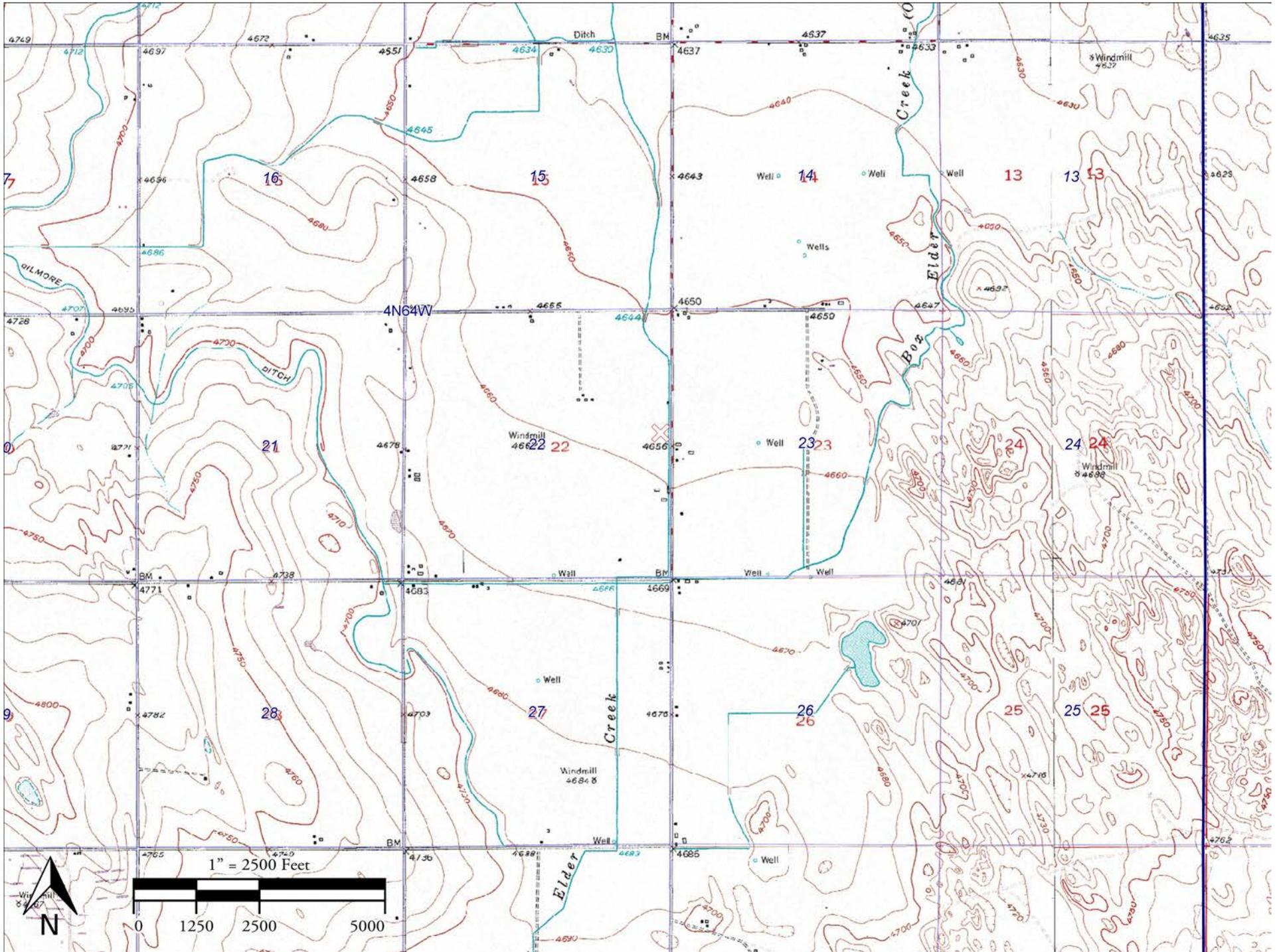
Orange highlighted cells exceed 125% of the maximum background concentration

\* 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-NE@4'  
PWV01-BW@5'  
PWV01-BE@5'  
PWV01-S@4'  
PWV01-E@4'



# Photo Log



*Description:*

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# Photo Log



*Description:*

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# Photo Log



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# Photo Log



*Description:*

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# Summit Scientific

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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	

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915		Metals (915-1)	SAR, EC, pH, Boron
1	PW101-BW65'	10/17/23		2			2			X			X	X	X	X	X		
2	PW101-BE65'																		
3	PW101-NW4'																		
4	PW101-NW4'																		
5	PW101-NE4'																		
6	PW101-SW4'																		
7	PW101-SE4'																		
8	PW101-SW4'																		
9	PW101-W4'																		
10	PW101-E4'																		
11	WC01@0.5'																		
12	AST01@0.5'																		
13	AST02@0.5'																		
14	AST03@0.5'																		
15	SEP01-DL4'																		

Relinquished by: <i>Aaron Otilar</i>	Date/Time: 10/17/23 1400	Received by: <i>Summit North Dropbox</i>	Date/Time: 10/17/23 1400	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>SZ</i>	Date/Time: 10/17/23 1630	Received by: <i>[Signature]</i>	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb. <input checked="" type="checkbox"/>	
Temperature Upon Receipt: 19.1	Corrected Temperature: <i>[Symbol]</i>	IR gun #: 1	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: Project Manager: Paul Henehan		Send Invoice To: Company: Noble/Chevron	
Address: 8305 6th Street		E-Mail: Fremont Distribution List		Project Name/Location: <i>Coleman C23-32 Tank Battery</i>	
City/State/Zip: Wellington, CO, 80549		Project Name: <i>Coleman C23-32 Tank Battery</i>		AFE#: <i>UWRWE - A2613-ABN</i>	
Phone: 603-477-6907		Project Number:		PO/Billing Codes:	
Sampler Name: Aaron Otilar				Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	
1	BK601 @ 0.6'	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: <i>Aaron Otilar</i>	Date/Time: 10/17/23 1400	Received by: <i>Summit North Dropbox</i>	Date/Time: 10/17/23 1400	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>SZ</i>	Date/Time: 10/17/23 1630	Received by: <i>[Signature]</i>	Date/Time: 10/17/23 1630	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>6</u>	IR gun #:		HNO3 lot #:		

S<sub>2</sub>

2/2

Sample Receipt Checklist

S2 Work Order# 2310326

Client: Fremont

Client Project ID: Coleman C23-32 Tank Battery

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

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

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on 200
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No time stamps
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Incomplete names sample
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column - HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

10/17/23

Date/Time

3033



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	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.26</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1.0</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>5.3</b>	0.050	"	10	"	"	10/18/23	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.66</b>	0.0050	"	1	"	"	10/19/23	"	
<b>Naphthalene</b>	<b>0.16</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>87</b>	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
<b>C10-C28 (DRO)</b>	<b>390</b>	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>190</b>	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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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**

**PAH by EPA Method 8270D SIM**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.0353</b>	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0163</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0117</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0110</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0125</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00606</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.505</b>	0.0500	"	10	"	"	10/20/23	"	
<b>2-Methylnaphthalene</b>	<b>0.949</b>	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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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-BW@5'**  
**2310326-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**

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-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	

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-BE@5'**  
**2310326-02 (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
<b>Benzene</b>	<b>0.0042</b>	0.0020	mg/kg	1	BGJ0729	10/18/23	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.071</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.048</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.87</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.052</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.088</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>12</b>	0.50	"	"	"	"	"	"	

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

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	10.7	85.8 %	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-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
<b>Acenaphthene</b>	<b>0.0293</b>	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0104</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00734</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00785</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0359</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.539</b>	0.0500	"	10	"	"	10/20/23	"	
<b>2-Methylnaphthalene</b>	<b>1.10</b>	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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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**

**Total Metals by EPA 6020B**

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

<b>% Solids</b>	<b>85.4</b>	%	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
<b>Specific Conductance (EC)</b>	<b>0.475</b>	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
<b>pH</b>	<b>7.86</b>		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-N@4'**  
**2310326-03 (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	10/18/23	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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	11.3	90.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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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-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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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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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**

<b>% Solids</b>	<b>81.2</b>	%	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
<b>Specific Conductance (EC)</b>	<b>0.370</b>	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
<b>pH</b>	<b>8.78</b>		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-NW@4'**  
**2310326-04 (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	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.033</b>	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	0.0391	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>240</b>	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>150</b>	50	"	"	"	"	"	"	

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

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

**PAH by EPA Method 8270D SIM**

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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-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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.00502</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0104</b>	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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 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**

<b>% Solids</b>	<b>78.0</b>	%	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
<b>Specific Conductance (EC)</b>	<b>1.04</b>	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
<b>pH</b>	<b>8.98</b>		pH Units	1	BGJ0930	10/24/23	10/24/23	EPA 9045D	

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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-NE@4'**  
**2310326-05 (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	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.039</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.048</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.028</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0057</b>	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	0.0409	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 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	11.2	89.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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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	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00666</b>	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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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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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)	<b>0.372</b>	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	<b>7.97</b>		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-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								
<b>Benzene</b>	<b>0.0032</b>	0.0020		mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.078</b>	0.010		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.059</b>	0.0050		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.024</b>	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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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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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**

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

<b>% Solids</b>	<b>74.7</b>	%	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
<b>Specific Conductance (EC)</b>	<b>0.849</b>	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
<b>pH</b>	<b>7.72</b>		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-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	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0065</b>	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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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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
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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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-SE@4'**  
**2310326-07 (Soil)**

**Summit Scientific**

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

<b>% Solids</b>	<b>75.2</b>	%	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
<b>Specific Conductance (EC)</b>	<b>0.817</b>	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
<b>pH</b>	<b>8.21</b>		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-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	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.010</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.024</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.14</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.021</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0084</b>	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
<b>C10-C28 (DRO)</b>	<b>210</b>	50	mg/kg	1	BGJ0732	10/18/23	10/20/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>120</b>	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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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**

**PAH by EPA Method 8270D SIM**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.00875</b>	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0278</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0407</b>	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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
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  
 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**

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

<b>% Solids</b>	<b>80.0</b>	%	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
<b>Specific Conductance (EC)</b>	<b>1.43</b>	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
<b>pH</b>	<b>8.02</b>		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-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	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0052</b>	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**

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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**

**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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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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
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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 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**

**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								
<b>Benzene</b>	<b>0.0035</b>	0.0020		mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.036</b>	0.010		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.039</b>	0.0050		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.014</b>	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								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0399	99.7 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0438	110 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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								
<i>Surrogate: o-Terphenyl</i>	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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
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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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**

<b>% Solids</b>	<b>76.2</b>	%	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
<b>Specific Conductance (EC)</b>	<b>0.494</b>	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
<b>pH</b>	<b>8.18</b>		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

**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
<b>Benzene</b>	<b>0.047</b>	0.0020	mg/kg	1	BGJ0729	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.44</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>15</b>	1.0	"	100	"	"	10/19/23	"	
<b>1,2,4-Trimethylbenzene</b>	<b>16</b>	0.50	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>8.4</b>	0.50	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.11</b>	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0466	117 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0420	105 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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
<b>C10-C28 (DRO)</b>	<b>64</b>	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
<i>Surrogate: o-Terphenyl</i>	10.9	87.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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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

**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
<b>Acenaphthene</b>	<b>0.0335</b>	0.00500	mg/kg	1	BGJ0764	10/19/23	10/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.00895</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00620</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00844</b>	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00832</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.755</b>	0.0500	"	10	"	"	10/20/23	"	
<b>2-Methylnaphthalene</b>	<b>1.67</b>	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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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**

<b>% Solids</b>	<b>81.2</b>	%	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
<b>Specific Conductance (EC)</b>	<b>0.295</b>	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
<b>pH</b>	<b>7.85</b>		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

**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 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	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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	11.6	93.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project: Noble - Coleman C23-32 Tank Battery  
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**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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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

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

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

**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)	<b>0.569</b>	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
<b>pH</b>	<b>8.65</b>		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

**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	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0083</b>	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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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**

**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	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00780</b>	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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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**

**Total Metals by EPA 6020B**

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

**Calculated Analysis**

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>6.09</b>	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						
<b>pH</b>	<b>8.63</b>		pH Units	1	BGK0907	10/24/23	11/27/23	EPA 9045D	I-04

Summit Scientific

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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 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	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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	11.5	92.1 %	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

**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	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00736</b>	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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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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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**

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

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% Solids	88.1	%	1	BGJ0885	10/23/23	10/23/23	Calculation
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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

**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)	<b>0.399</b>	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
<b>pH</b>	<b>8.64</b>		pH Units	1	BGK0907	10/24/23	11/27/23	EPA 9045D	I-04

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

**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 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	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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	10.6	84.9 %	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

**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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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**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
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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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**

<b>% Solids</b>	<b>76.2</b>	%	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
<b>Specific Conductance (EC)</b>	<b>0.591</b>	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
<b>pH</b>	<b>7.97</b>		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

**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		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	<b>0.958</b>	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	<b>206</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.271</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.54</b>	0.400	"	"	"	"	"	"	
Lead	<b>12.2</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.87</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0537</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>10.4</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.21</b>	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	<b>25.5</b>	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>4.49</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>71.3</b>	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@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	

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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	<b>0.878</b>	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	<b>130</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.208</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.39</b>	0.400	"	"	"	"	"	"	
Lead	<b>11.1</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.64</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0452</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>10.2</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.10</b>	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	<b>28.8</b>	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>4.75</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>131</b>	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

**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	

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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	

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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

**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		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	<b>0.857</b>	0.200	mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	<b>177</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.243</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.27</b>	0.400	"	"	"	"	"	"	
Lead	<b>11.6</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.68</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0608</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>9.74</b>	0.400	"	"	"	"	"	"	
Selenium	<b>3.91</b>	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	<b>27.4</b>	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>5.68</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>54.7</b>	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	

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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	<b>0.944</b>	0.200		mg/kg dry	1	BGJ0933	10/24/23	10/26/23	EPA 6020B	
Barium	<b>255</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.268</b>	0.200		"	"	"	"	"	"	
Copper	<b>3.68</b>	0.400		"	"	"	"	"	"	
Lead	<b>12.9</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.98</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0692</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>10.9</b>	0.400		"	"	"	"	"	"	
Selenium	<b>4.46</b>	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	<b>25.9</b>	0.0500		mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>3.55</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>91.3</b>	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	

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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.972</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>276</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.250</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.64</b>	0.400	"	"	"	"	"	"	
Lead	<b>13.4</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.67</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0675</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>10.7</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.79</b>	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	<b>35.1</b>	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>4.26</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>112</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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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

**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	

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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.995</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>169</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.327</b>	0.200	"	"	"	"	"	"	
Copper	<b>4.38</b>	0.400	"	"	"	"	"	"	
Lead	<b>12.9</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.95</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0849</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>14.1</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.90</b>	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	<b>30.4</b>	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>5.68</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>69.8</b>	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

**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	

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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.738</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>174</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.212</b>	0.200	"	"	"	"	"	"	
Copper	<b>2.79</b>	0.400	"	"	"	"	"	"	
Lead	<b>10.3</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.18</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0518</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>8.11</b>	0.400	"	"	"	"	"	"	
Selenium	<b>3.90</b>	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	<b>24.4</b>	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>4.29</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>55.3</b>	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	

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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.929</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>229</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.243</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.73</b>	0.400	"	"	"	"	"	"	
Lead	<b>13.2</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.97</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0576</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>10.8</b>	0.400	"	"	"	"	"	"	
Selenium	<b>5.05</b>	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	<b>35.6</b>	0.0500	mg/L dry	1	BGJ0888	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>5.01</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>131</b>	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	

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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

**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.856</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>133</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.329</b>	0.200	"	"	"	"	"	"	
Copper	<b>6.18</b>	0.400	"	"	"	"	"	"	
Lead	<b>11.0</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.66</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0657</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>19.0</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.76</b>	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	<b>29.1</b>	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>7.54</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>56.9</b>	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	

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@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	<b>0.886</b>	0.200		mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>204</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.243</b>	0.200		"	"	"	"	"	"	
Copper	<b>3.37</b>	0.400		"	"	"	"	"	"	
Lead	<b>11.9</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.74</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0504</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>10.0</b>	0.400		"	"	"	"	"	"	
Selenium	<b>4.80</b>	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	<b>26.4</b>	0.0500		mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>4.32</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>121</b>	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	

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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.854</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>166</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.240</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.63</b>	0.400	"	"	"	"	"	"	
Lead	<b>12.2</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.76</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0516</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>10.8</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.89</b>	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	<b>61.6</b>	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>9.33</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>179</b>	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	

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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.884</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>178</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.230</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.31</b>	0.400	"	"	"	"	"	"	
Lead	<b>11.5</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.62</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0522</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>10.4</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.76</b>	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	<b>26.3</b>	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>5.35</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>94.9</b>	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	

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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@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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.824</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>142</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.262</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.24</b>	0.400	"	"	"	"	"	"	
Lead	<b>11.1</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.76</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0461</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>9.74</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.75</b>	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	<b>20.4</b>	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>3.39</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>97.2</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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

**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	

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

**BKG05@5'**  
**2310326-30 (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	10/25/23	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	<b>0.863</b>	0.200	mg/kg dry	1	BGJ0934	10/24/23	10/26/23	EPA 6020B	
Barium	<b>156</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.249</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.76</b>	0.400	"	"	"	"	"	"	
Lead	<b>11.8</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.83</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0453</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>11.1</b>	0.400	"	"	"	"	"	"	
Selenium	<b>4.88</b>	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	<b>41.9</b>	0.0500	mg/L dry	1	BGJ0889	10/23/23	10/26/23	EPA 6020B	
Magnesium	<b>6.57</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>134</b>	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@5'**  
**2310326-30 (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	5.08	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	

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

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

#### Summit Scientific

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

#### 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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0428		"	0.0400		107	50-150				
<i>Surrogate: Toluene-d8</i>	0.0437		"	0.0400		109	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0421		"	0.0400		105	50-150			
<i>Surrogate: Toluene-d8</i>	0.0440		"	0.0400		110	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0414		"	0.0400		104	50-150			
<i>Surrogate: Toluene-d8</i>	0.0446		"	0.0400		111	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0433		"	0.0400		108	50-150			

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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

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

**Summit Scientific**

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

**Batch BGJ0729 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGJ0729-MSD1)</b>	<b>Source: 2310319-01</b>			<b>Prepared &amp; Analyzed: 10/18/23</b>						
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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0446</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0429</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

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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

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

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

**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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	12.2		"	12.5		97.3	30-150			

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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**

**Summit Scientific**

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

**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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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		"	<i>0.0333</i>		<i>52.4</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0184</i>		"	<i>0.0333</i>		<i>55.3</i>	<i>40-150</i>		

**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
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0168</i>		"	<i>0.0333</i>		<i>50.4</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0167</i>		"	<i>0.0333</i>		<i>50.2</i>	<i>40-150</i>		

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

**Batch BGJ0920 - EPA 3050B**

<b>Blank (BGJ0920-BLK1)</b>				Prepared & Analyzed: 10/24/23							
Boron	ND	2.00	mg/L								
<b>LCS (BGJ0920-BS1)</b>				Prepared & Analyzed: 10/24/23							
Boron	4.20	2.00	mg/L	5.00	84.0	80-120					
<b>Duplicate (BGJ0920-DUP1)</b>				<b>Source: 2310190-01</b>		Prepared & Analyzed: 10/24/23					
Boron	0.175	2.00	mg/L		0.202				14.0	20	
<b>Matrix Spike (BGJ0920-MS1)</b>				<b>Source: 2310190-01</b>		Prepared & Analyzed: 10/24/23					
Boron	4.56	2.00	mg/L	5.00	0.202	87.2	75-125				
<b>Matrix Spike Dup (BGJ0920-MSD1)</b>				<b>Source: 2310190-01</b>		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**

<b>Blank (BGJ0921-BLK1)</b>				Prepared: 10/24/23 Analyzed: 10/25/23							
Boron	ND	2.00	mg/L								
<b>LCS (BGJ0921-BS1)</b>				Prepared: 10/24/23 Analyzed: 10/25/23							
Boron	4.99	2.00	mg/L	5.00	99.8	80-120					
<b>Duplicate (BGJ0921-DUP1)</b>				<b>Source: 2310326-09</b>		Prepared: 10/24/23 Analyzed: 10/25/23					
Boron	0.427	2.00	mg/L		0.0728				142	20	QR-01
<b>Matrix Spike (BGJ0921-MS1)</b>				<b>Source: 2310326-09</b>		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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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	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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

**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  
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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

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

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

**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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BGJ0934 - EPA 3050B**

<b>Matrix Spike Dup (BGJ0934-MSD1)</b>	<b>Source: 2310313-01</b>			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	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BGJ0881 - 3060A Mod**

<b>Blank (BGJ0881-BLK1)</b>		Prepared & Analyzed: 10/23/23									
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BGJ0881-BS1)</b>		Prepared & Analyzed: 10/23/23									
Chromium, Hexavalent	26.2	0.30	mg/kg wet	25.0	105	80-120					
<b>Duplicate (BGJ0881-DUP1)</b>		<b>Source: 2310297-01</b>		Prepared & Analyzed: 10/23/23							
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BGJ0881-MS1)</b>		<b>Source: 2310297-01</b>		Prepared & Analyzed: 10/23/23							
Chromium, Hexavalent	29.6	0.30	mg/kg dry	29.7	ND	99.6	75-125				
<b>Matrix Spike Dup (BGJ0881-MSD1)</b>		<b>Source: 2310297-01</b>		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**

<b>Blank (BGJ0882-BLK1)</b>		Prepared & Analyzed: 10/23/23									
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BGJ0882-BS1)</b>		Prepared & Analyzed: 10/23/23									
Chromium, Hexavalent	26.1	0.30	mg/kg wet	25.0	104	80-120					
<b>Duplicate (BGJ0882-DUP1)</b>		<b>Source: 2310326-11</b>		Prepared & Analyzed: 10/23/23							
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BGJ0882-MS1)</b>		<b>Source: 2310326-11</b>		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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 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	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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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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

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

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

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

**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

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 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 - Quality Control**

**Summit Scientific**

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

**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		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**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

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 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		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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

**Batch BGJ0930 - General Preparation**

LCS (BGJ0930-BS1)											
											Prepared & Analyzed: 10/24/23
pH	9.09		pH Units	9.18		99.0		95-105			
Duplicate (BGJ0930-DUP1)											
											Prepared & Analyzed: 10/24/23
pH	8.32		pH Units			8.32			0.00		20

**Batch BGJ0931 - General Preparation**

LCS (BGJ0931-BS1)											
											Prepared & Analyzed: 10/24/23
pH	9.09		pH Units	9.18		99.0		95-105			
Duplicate (BGJ0931-DUP1)											
											Prepared & Analyzed: 10/24/23
pH	8.13		pH Units			8.13			0.00		20

**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			
Duplicate (BGK0907-DUP1)											
											Prepared: 11/22/23 Analyzed: 11/27/23
pH	8.50		pH Units			8.52			0.235		20

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

### 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