

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

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**		
SB- AST E 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.04	60	120	<50
SB- AST E2 9ft	06/14/2023	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.07	14	<50	<50
SB- AST E3 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB- AST N	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB- AST S 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.012	26	<50	<50
SB- AST S 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.17	54	860	220
SB- AST S2 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB- AST S2 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB- AST W 10ft	06/14/2023	10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.5	<50	<50
SB- AST W 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.14	4.4	<50	<50
SB-SEP. CEN 12ft	06/14/2023	12	<0.0020	<0.0050	0.0078	<0.010	<0.0050	<0.0050	0.024	240	590	51
SB-SEP. CEN 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.029	43	1100	82
SB-SEP. E 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	6.900	0.024	0.077	5.9	560	140
SB-SEP. E 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.16	27	300	89
SB-SEP. E2 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.40	24	370	110
SB-SEP. E2 9ft	06/14/2023	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.51	34	430	130
SB-SEP. N 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.07	470	320	180
SB-SEP. N 6ft	06/14/2023	6	<0.0020	<0.0050	<0.0050	<0.010	0.820	<0.0050	0.39	72	2400	680
SB-SEP. N2 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.25	4	360	110
SB-SEP. N2 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.20	26	280	88
SB-SEP. N3 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-SEP. N3 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-SEP. S 10ft	06/14/2023	10	<0.0020	<0.0050	<0.0050	<0.010	0.032	<0.0050	0.11	28	490	<50
SB-SEP. S 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	0.320	<0.0050	0.0066	20	300	<50
SB-SEP. S2 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.0041	<0.50	330	<50
SB-SEP. S2 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-SEP. W 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.01	19	120	<50
SB-SEP. W 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.86	<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)

* 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.
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

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
SB- AST E 8ft	06/14/2023	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0122	0.0308
SB- AST E2 9ft	06/14/2023	9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0223	0.0619
SB- AST E3 8ft	06/14/2023	8	<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
SB- AST N	06/14/2023	8	<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
SB- AST S 12ft	06/14/2023	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0112	<0.00500	<0.00500	0.0466	0.112
SB- AST S 7ft	06/14/2023	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0792	<0.00500	<0.00500	0.377	0.699
SB- AST S2 12ft	06/14/2023	12	<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
SB- AST S2 8ft	06/14/2023	8	<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
SB- AST W 10ft	06/14/2023	10	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0658	0.127
SB- AST W 8ft	06/14/2023	8	<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	0.0204
SB-SEP. CEN 12ft	06/14/2023	12	<0.00500	<0.00500	0.010	<0.00500	<0.00500	<0.00500	0.00878	<0.00500	<0.00500	<0.00500	<0.00500	0.005	0.348	<0.00500
SB-SEP. CEN 7ft	06/14/2023	7	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.91	1.99
SB-SEP. E 12ft	06/14/2023	12	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.812	<0.100
SB-SEP. E 7ft	06/14/2023	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0711	0.15
SB-SEP. E2 7ft	06/14/2023	7	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.447	1.12
SB-SEP. E2 9ft	06/14/2023	9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0753	0.152
SB-SEP. N 11ft	06/14/2023	11	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.483	1.16
SB-SEP. N 6ft	06/14/2023	6	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.93	3.45
SB-SEP. N2 11ft	06/14/2023	11	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.52	1.01
SB-SEP. N2 7ft	06/14/2023	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0599	0.074
SB-SEP. N3 12ft	06/14/2023	12	<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
SB-SEP. N3 8ft	06/14/2023	8	<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
SB-SEP. S 10ft	06/14/2023	10	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.56	0.563
SB-SEP. S 7ft	06/14/2023	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0876	0.138
SB-SEP. S2 11ft	06/14/2023	11	<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
SB-SEP. S2 8ft	06/14/2023	8	<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
SB-SEP. W 11ft	06/14/2023	11	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0557	0.0819
SB-SEP. W 8ft	06/14/2023	8	<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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SB- AST E 8ft	06/14/2023	8	7.97	0.294	1.03	0.286
SB- AST E2 9ft	06/14/2023	9	8.59	0.278	0.701	0.384
SB- AST E3 8ft	06/14/2023	8	7.78	0.302	0.485	0.265
SB- AST N	06/14/2023	8	7.77	0.291	0.472	0.118
SB- AST S 12ft	06/14/2023	12	8.71	0.335	0.746	0.392
SB- AST S 7ft	06/14/2023	7	8.06	0.481	0.527	0.197
SB- AST S2 12ft	06/14/2023	12	8.66	0.258	0.905	0.332
SB- AST S2 8ft	06/14/2023	8	8.27	0.389	1.32	0.296
SB- AST W 10ft	06/14/2023	10	8.88	0.463	1.49	0.442
SB- AST W 8ft	06/14/2023	8	8.11	0.299	0.789	0.304
SB-SEP. CEN 12ft	06/14/2023	12	7.55	0.964	1.72	0.14
SB-SEP. CEN 7ft	06/14/2023	7	7.47	0.532	2.44	0.136
SB-SEP. E 12ft	06/14/2023	12	7.86	0.819	1.48	0.0565
SB-SEP. E 7ft	06/14/2023	7	7.97	0.33	0.408	0.0954
SB-SEP. E2 7ft	06/14/2023	7	8.45	0.336	0.892	0.166
SB-SEP. E2 9ft	06/14/2023	9	8.49	0.289	0.865	0.402
SB-SEP. N 11ft	06/14/2023	11	8.21	0.545	2.26	0.0859
SB-SEP. N 6ft	06/14/2023	6	7.66	0.362	0.977	0.109
SB-SEP. N2 11ft	06/14/2023	11	7.98	0.816	2.69	0.115
SB-SEP. N2 7ft	06/14/2023	7	8.52	0.49	2.74	0.151
SB-SEP. N3 12ft	06/14/2023	12	7.51	0.572	2.15	0.059
SB-SEP. N3 8ft	06/14/2023	8	8.02	0.388	2.07	0.158
SB-SEP. S 10ft	06/14/2023	10	8.55	0.344	1.64	0.114
SB-SEP. S 7ft	06/14/2023	7	7.79	0.499	1.89	0.167
SB-SEP. S2 11ft	06/14/2023	11	7.61	0.728	0.849	0.0492
SB-SEP. S2 8ft	06/14/2023	8	7.79	0.311	0.448	0.223
SB-SEP. W 11ft	06/14/2023	11	8.11	0.403	1.81	0.108

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SB-SEP. W 8ft	06/14/2023	8	7.77	0.464	1.72	0.153

Bold faced values exceed the ECMC Table 915-1 concentrations

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.
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

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
SB- AST E 8ft	06/14/2023	8	1.23	189	0.32	<0.30	4.05	10.6	2.18	<0.357	0.0576	11.0
SB- AST E2 9ft	06/14/2023	9	4.63	175	0.411	<0.30	10.6	14.50	6.31	<0.331	0.108	26.4
SB- AST E3 8ft	06/14/2023	8	5.23	106	0.397	<0.30	9.87	11.5	8.02	<0.336	0.0915	23.8
SB- AST N	06/14/2023	8	5.25	99.2	0.26	<0.30	7.65	9.01	6.54	<0.343	0.049	20.1
SB- AST S 12ft	06/14/2023	12	1.13	122	<0.259	<0.30	3.27	8	0.983	<0.337	0.0399	8.71
SB- AST S 7ft	06/14/2023	7	0.631	43.2	<0.226	<0.30	2.12	3.41	0.665	0.24	<0.0226	6.57
SB- AST S2 12ft	06/14/2023	12	0.979	128	0.26	<0.30	2.97	9.08	1.15	<0.322	0.0456	9.49
SB- AST S2 8ft	06/14/2023	8	1.8	104	0.28	<0.30	3.85	10.8	2.92	<0.336	0.06	10.5
SB- AST W 10ft	06/14/2023	10	1.73	241	0.538	<0.30	4.13	13.7	2.26	<0.357	0.0703	10.8
SB- AST W 8ft	06/14/2023	8	1.24	143	0.351	<0.30	3.7	11.1	1.71	<0.337	0.0617	9.43
SB-SEP. CEN 12ft	06/14/2023	12	0.638	23.3	<0.235	<0.30	0.823	2.26	<0.470	<0.305	<0.0235	4.32
SB-SEP. CEN 7ft	06/14/2023	7	0.52	33.3	<0.218	<0.30	1.41	2.8	0.513	<0.283	<0.0218	5.07
SB-SEP. E 12ft	06/14/2023	12	0.532	16.7	<0.228	<0.30	0.857	2.77	<0.457	<0.297	<0.0228	4.02
SB-SEP. E 7ft	06/14/2023	7	0.865	82.4	0.24	<0.30	4.01	12	2.1	<0.312	0.061	10.1
SB-SEP. E2 7ft	06/14/2023	7	0.479	26.5	<0.233	<0.30	1.46	3.13	<0.466	<0.303	<0.0233	6.14
SB-SEP. E2 9ft	06/14/2023	9	1.18	266	0.38	<0.30	4.39	15.8	2.53	<0.342	0.0975	12
SB-SEP. N 11ft	06/14/2023	11	0.524	16.3	<0.231	<0.30	0.853	1.95	<0.463	<0.301	<0.0231	4.47
SB-SEP. N 6ft	06/14/2023	6	0.525	23.1	<0.217	<0.30	1.21	2.67	0.437	<0.282	<0.0217	4.59
SB-SEP. N2 11ft	06/14/2023	11	1.91	38.1	<0.231	<0.30	0.979	2.84	0.548	<0.300	<0.0231	4.79
SB-SEP. N2 7ft	06/14/2023	7	1.1	83.6	<0.259	<0.30	3.26	8.73	1.78	<0.337	0.0503	9.54
SB-SEP. N3 12ft	06/14/2023	12	0.5	35.5	<0.239	<0.30	1.07	2.66	0.585	<0.311	<0.0239	5.5
SB-SEP. N3 8ft	06/14/2023	8	0.987	67.3	<0.249	<0.30	2.71	9.16	1.68	<0.324	0.0518	8.9
SB-SEP. S 10ft	06/14/2023	10	1.46	72.8	<0.228	<0.30	1.44	3.52	1.41	<0.296	0.0228	5.59
SB-SEP. S 7ft	06/14/2023	7	0.765	32.2	<0.225	<0.30	1.61	3.36	0.612	<0.293	<0.0225	5.74
SB-SEP. S2 11ft	06/14/2023	11	0.478	7.71	<0.229	<0.30	0.508	1.42	<0.459	<0.298	<0.0229	2.99
SB-SEP. S2 8ft	06/14/2023	8	0.909	159	<0.241	<0.30	3.13	9.23	1.69	<0.314	0.0492	9.3
SB-SEP. W 11ft	06/14/2023	11	1.25	79.7	<0.256	<0.30	2.76	7.99	1.74	<0.333	0.0359	8.68
SB-SEP. W 8ft	06/14/2023	8	0.76	53.2	<0.231	<0.30	2.57	4.72	1.23	<0.300	0.0263	8.46

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

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE ENERGY INC.
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
EAST	06/14/2023	<1.0	<1.0	<1.0	<2.0	25	<1.0	<1.0	NM	~5	NM	NP
WEST	06/14/2023	1.2	<1.0	<1.0	<2.0	28	1.3	<1.0	NM	~5	NM	NP

Bold face values exceed the ECMC concentration limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

Clyncke State B36-25, Baker State B 36-12

Fac. # 447562
Rem. # 20768
40.348912 -104.50249
Fremont No. C022-187

Legend

● Impacted Soil Locations

Ex. Extent:
~30'x90'x5'deep

H2O ~5' deep on
6/14/23. Ex. depth
may vary based on
seasonal changes
influencing the
water table.



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

June 26, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Clyncke B36-25

Work Order # 2306298

Enclosed are the results of analyses for samples received by Summit Scientific on 06/15/23 06:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-SEP. CEN 7ft	2306298-01	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. CEN 12ft	2306298-02	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. W 8ft	2306298-03	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. W 11ft	2306298-04	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. S 7ft	2306298-05	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. S 10ft	2306298-06	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. S2 8ft	2306298-07	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. S2 11ft	2306298-08	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. N 6ft	2306298-09	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. N 11ft	2306298-10	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. N2 7ft	2306298-11	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. N2 11ft	2306298-12	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. N3 8ft	2306298-13	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. N3 12ft	2306298-14	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. E 7ft	2306298-15	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. E 12ft	2306298-16	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. E2 7ft	2306298-17	Soil	06/14/23 00:00	06/15/23 06:08
SB-SEP. E2 9ft	2306298-18	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST W 8ft	2306298-19	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST W 10ft	2306298-20	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST S 7ft	2306298-21	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST S 12ft	2306298-22	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST S2 8ft	2306298-23	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST S2 12ft	2306298-24	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST E 8ft	2306298-25	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST E2 9ft	2306298-26	Soil	06/14/23 00:00	06/15/23 06:08
SB- AST E3 8ft	2306298-27	Soil	06/14/23 00:00	06/15/23 06:08

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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB- AST N	2306298-28	Soil	06/14/23 00:00	06/15/23 06:08
EAST	2306298-29	Water	06/14/23 00:00	06/15/23 06:08
WEST	2306298-30	Water	06/14/23 00:00	06/15/23 06:08

Summit Scientific

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SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2306298.1	

Client: Fremont Environmental	Send Data To: Project Manager: Henchan	Send Invoice To: Company:
Address: 8305 6th St.	E-Mail: Fremont Dist. List	Project Name/Location:
City/State/Zip: Wellington, CO		AFE#:
Phone: 603-477-6907	Project Name: Noble-Cluncke B36-25	PO/Billing Codes: UWRWE-A1712-ABN
Sampler Name: Ethan Black	Project Number: C022-187	Contact:

					Preservative				Matrix				Analysis Requested						Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	Table 915-1 Metals	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	
1	SB- CEN SEP. CEN 7ft	6/14/23		2			X			X			X	X	X	X	X		
2	SB-SEP. CEN 12FT			2			X			X			X	X	X	X	X		
3	SB-SEP. W 8FT																		
4	SB-SEP. W 11FT																		
5	SB-SEP. S 7FT																		
6	SB-SEP. S 10FT																		
7	SB-SEP. S2 8FT																		
8	SB-SEP. S2 11FT																		
9	SB-SEP. N 6FT																		
10	SB-SEP. N 11FT																		
11	SB-SEP. N2 7FT																		
12	SB-SEP. N2 11FT																		
13	SB-SEP. N3 8FT																		
14	SB-SEP. N3 12FT																		
15	SB-SEP. E 7FT																		

Relinquished by: Ethan Black	Date/Time: 6/15/23 6:08	Received by: S2	Date/Time: 6/15/23 6:08	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 6/15/23 0608	Received by: [Signature]	Date/Time: 6/15/23 0608	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: [Signature]	Date/Time: [Signature]	Received by: [Signature]	Date/Time: [Signature]	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 17.1	Corrected Temperature: [Signature]	IR gun #: 1	HNO3 lot #:			

SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2306298.2	

Client: Fremont Environmental	Send Data To: Project Manager: Henchan	Send Invoice To: Company: Noble
Address: 8305 6th St.	E-Mail: Fremont Dist. List	Project Name/Location:
City/State/Zip: Wellington, CO		AFE#:
Phone: 603-477-6907	Project Name: Noble - Clunkke B36-25	PO/Billing Codes: UWRWE - A1712 - ABN
Sampler Name: Ethan Black	Project Number: C022-187	Contact: Dan P.

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	Table 915-1 Metals	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	
1	SB - SEP. E 12 FT	6/14/23		2			X			X			X	X	X	X	X		
2	SB - SEP. E2 7 FT																		
3	SB - SEP. E2 9 FT																		
4	SB - SEP AST W 8 FT																		
5	SB - AST W 10 FT																		
6	SB - AST S 7 FT																		
7	SB - AST S 12 FT																		
8	SB - AST S2 8 FT																		
9	SB - AST S2 12 FT																		
10	SB - AST E 8 FT																		
11	SB - AST E2 9 FT																		
12	SB - AST E3 8 FT																		
13	SB - AST N																		
14	EAST			3	X				X										
15	WEST			3	X				X										

Relinquished by: <i>Ethan Black</i>	Date/Time: 6/15/23 6:08	Received by: <i>S2</i>	Date/Time: 6/15/23 6:08	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>S2</i>	Date/Time: 6/15/23	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.	
Temperature Upon Receipt: 17.1	Corrected Temperature: 6	IR gun #:		HNO3 lot #:		

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2306298Client: Fremont Client Project ID: Noble-Cluncke B3e-26Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 17.1Thermometer # 1

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



Custodian Printed Name

6/15/23 6:08

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 7ft
2306298-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	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	0.029	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	43	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		85.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		165 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		420 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	1100	50		mg/kg	1	BGF0610	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	82	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		101 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 7ft
2306298-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.100		mg/kg	20	BGF0595	06/16/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.100		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.100		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100		"	"	"	"	"	"	
Chrysene	ND	0.100		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100		"	"	"	"	"	"	
Fluoranthene	ND	0.100		"	"	"	"	"	"	
Fluorene	ND	0.100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.100		"	"	"	"	"	"	
Pyrene	ND	0.100		"	"	"	"	"	"	
1-Methylnaphthalene	1.91	0.100		"	"	"	"	"	"	
2-Methylnaphthalene	1.99	0.100		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		112 %		40-150		"	"	06/16/23	"	
Surrogate: Fluoranthene-d10		98.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.136	0.0100		mg/L	1	BGF0745	06/21/23	06/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 7ft
2306298-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.520	0.218		mg/kg dry	1	BGF0591	06/16/23	06/21/23	EPA 6020B	
Barium	33.3	0.436		"	"	"	"	"	"	
Cadmium	ND	0.218		"	"	"	"	"	"	
Copper	1.41	0.436		"	"	"	"	"	"	
Lead	2.80	0.218		"	"	"	"	"	"	
Nickel	0.513	0.436		"	"	"	"	"	"	
Selenium	ND	0.283	0.191	"	"	"	"	"	"	
Silver	ND	0.0218		"	"	"	"	"	"	
Zinc	5.07	0.436		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.0	0.0545		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	9.87	0.0545		"	"	"	"	"	"	
Sodium	56.9	0.0545		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.44	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 7ft
2306298-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.8			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.532	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.47			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25
Project Number: UWRWE-A1712-ABN
Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 12ft
2306298-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.0078	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.024	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	240	5.0		"	10	"	"	06/17/23	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %		50-150		"	"	06/17/23	"	
Surrogate: Toluene-d8		1500 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		2030 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	590	50		mg/kg	1	BGF0610	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	51	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 12ft
2306298-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	0.0102	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	0.00878	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	0.00549	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.348	0.00500		"	"	"	"	"	"	E
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		110 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.140	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 12ft
2306298-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.638	0.235		mg/kg dry	1	BGF0591	06/16/23	06/21/23	EPA 6020B	
Barium	23.3	0.470		"	"	"	"	"	"	
Cadmium	ND	0.235		"	"	"	"	"	"	
Copper	0.823	0.470		"	"	"	"	"	"	
Lead	2.26	0.235		"	"	"	"	"	"	
Nickel	ND	0.470		"	"	"	"	"	"	
Selenium	ND	0.305	0.206	"	"	"	"	"	"	
Silver	ND	0.0235		"	"	"	"	"	"	
Zinc	4.32	0.470		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.4	0.0587		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	19.2	0.0587		"	"	"	"	"	"	
Sodium	56.4	0.0587		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.72	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. CEN 12ft
2306298-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.1			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.964	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.55			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 8ft
2306298-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	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	0.86	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0610	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		98.7 %		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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 8ft
2306298-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Acenaphthene	ND	0.00500			mg/kg	1	BGF0595	06/16/23	06/16/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Surrogate: 2-Methylnaphthalene-d10		68.7 %			40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.1 %			40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Boron	0.153	0.0100			mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 8ft
2306298-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.760	0.231		mg/kg dry	1	BGF0591	06/16/23	06/21/23	EPA 6020B	
Barium	53.2	0.462		"	"	"	"	"	"	
Cadmium	ND	0.231		"	"	"	"	"	"	
Copper	2.57	0.462		"	"	"	"	"	"	
Lead	4.72	0.231		"	"	"	"	"	"	
Nickel	1.23	0.462		"	"	"	"	"	"	
Selenium	ND	0.300	0.202	"	"	"	"	"	"	
Silver	0.0263	0.0231		"	"	"	"	"	"	
Zinc	8.46	0.462		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.0	0.0577		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	7.30	0.0577		"	"	"	"	"	"	
Sodium	37.0	0.0577		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.72	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 8ft
2306298-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.7			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.464	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.77			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 11ft
2306298-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	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	0.011	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	19	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		90.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		165 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		418 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	120	50		mg/kg	1	BGF0610	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		98.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 11ft
2306298-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0557	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0819	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		84.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.108	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 11ft
2306298-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.25	0.256	mg/kg dry	1	BGF0591	06/16/23	06/21/23	EPA 6020B
Barium	79.7	0.512	"	"	"	"	"	"
Cadmium	ND	0.256	"	"	"	"	"	"
Copper	2.76	0.512	"	"	"	"	"	"
Lead	7.99	0.256	"	"	"	"	"	"
Nickel	1.74	0.512	"	"	"	"	"	"
Selenium	ND	0.333	0.224	"	"	"	"	"
Silver	0.0359	0.0256	"	"	"	"	"	"
Zinc	8.68	0.512	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.2	0.0640		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	7.52	0.0640		"	"	"	"	"	"	
Sodium	38.7	0.0640		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.81	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. W 11ft
2306298-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	78.1			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.403	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.11			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 7ft
2306298-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.32	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.0066	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	20	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		127 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		238 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	300	50		mg/kg	1	BGF0610	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 7ft
2306298-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0876	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.138	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.167	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 7ft
2306298-05 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.765	0.225	mg/kg dry	1	BGF0591	06/16/23	06/21/23	EPA 6020B
Barium	32.2	0.450	"	"	"	"	"	"
Cadmium	ND	0.225	"	"	"	"	"	"
Copper	1.61	0.450	"	"	"	"	"	"
Lead	3.36	0.225	"	"	"	"	"	"
Nickel	0.612	0.450	"	"	"	"	"	"
Selenium	ND	0.293	0.197	"	"	"	"	"
Silver	ND	0.0225	"	"	"	"	"	"
Zinc	5.74	0.450	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.3	0.0563		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	8.02	0.0563		"	"	"	"	"	"	
Sodium	40.4	0.0563		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.89	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 7ft
2306298-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	88.8			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.499	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.79			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 10ft
2306298-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.032	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.11	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	28	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		157 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		292 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	490	50		mg/kg	1	BGF0610	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 10ft
2306298-06 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.560	0.00500		"	"	"	"	"	"	E
2-Methylnaphthalene	0.563	0.00500		"	"	"	"	"	"	E

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		85.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.114	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 10ft
2306298-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.46	0.228		mg/kg dry	1	BGF0591	06/16/23	06/21/23	EPA 6020B	
Barium	72.8	0.455		"	"	"	"	"	"	
Cadmium	ND	0.228		"	"	"	"	"	"	
Copper	1.44	0.455		"	"	"	"	"	"	
Lead	3.52	0.228		"	"	"	"	"	"	
Nickel	1.41	0.455		"	"	"	"	"	"	
Selenium	ND	0.296	0.199	"	"	"	"	"	"	
Silver	0.0228	0.0228		"	"	"	"	"	"	
Zinc	5.59	0.455		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.2	0.0569		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	5.84	0.0569		"	"	"	"	"	"	
Sodium	35.1	0.0569		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.64	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S 10ft
2306298-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	87.9			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.344	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.55			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 8ft
2306298-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0610	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		98.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 8ft
2306298-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/16/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.223	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 8ft
2306298-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.909	0.241	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	159	0.482	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	3.13	0.482	"	"	"	"	"	"
Lead	9.23	0.241	"	"	"	"	"	"
Nickel	1.69	0.482	"	"	"	"	"	"
Selenium	ND	0.314	0.211	"	"	"	"	"
Silver	0.0492	0.0241	"	"	"	"	"	"
Zinc	9.30	0.482	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.6	0.0603		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	6.44	0.0603		"	"	"	"	"	"	
Sodium	9.38	0.0603		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.448	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 8ft
2306298-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	82.9			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.311	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.79			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 11ft
2306298-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0608	06/16/23	06/17/23	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	0.0041	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		393 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	330	50		mg/kg	1	BGF0610	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		101 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 11ft
2306298-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/16/23	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: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0492	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 11ft
2306298-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.478	0.229		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	7.71	0.459		"	"	"	"	"	"
Cadmium	ND	0.229		"	"	"	"	"	"
Copper	0.508	0.459		"	"	"	"	"	"
Lead	1.42	0.229		"	"	"	"	"	"
Nickel	ND	0.459		"	"	"	"	"	"
Selenium	ND	0.298	0.201	"	"	"	"	"	"
Silver	ND	0.0229		"	"	"	"	"	"
Zinc	2.99	0.459		"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Chromium, Hexavalent	ND	0.30			mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Calcium	49.4	0.0574			mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	15.9	0.0574			"	"	"	"	"	"	
Sodium	26.8	0.0574			"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Sodium Adsorption Ratio	0.849	0.00100			units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. S2 11ft
2306298-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	87.2			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.728	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.61			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 6ft
2306298-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/16/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.82	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.39	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	72	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		74.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		341 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2400	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	680	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 6ft
2306298-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.100		mg/kg	20	BGF0595	06/16/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.100		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.100		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100		"	"	"	"	"	"	
Chrysene	ND	0.100		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100		"	"	"	"	"	"	
Fluoranthene	ND	0.100		"	"	"	"	"	"	
Fluorene	ND	0.100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.100		"	"	"	"	"	"	
Pyrene	ND	0.100		"	"	"	"	"	"	
1-Methylnaphthalene	1.93	0.100		"	"	"	"	"	"	
2-Methylnaphthalene	3.45	0.100		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		69.7 %		40-150		"	"	06/16/23	"	
Surrogate: Fluoranthene-d10		44.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.109	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 6ft
2306298-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.525	0.217	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	23.1	0.433	"	"	"	"	"	"
Cadmium	ND	0.217	"	"	"	"	"	"
Copper	1.21	0.433	"	"	"	"	"	"
Lead	2.67	0.217	"	"	"	"	"	"
Nickel	0.437	0.433	"	"	"	"	"	"
Selenium	ND	0.282	0.190	"	"	"	"	"
Silver	ND	0.0217	"	"	"	"	"	"
Zinc	4.59	0.433	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.1	0.0541		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	8.44	0.0541		"	"	"	"	"	"	
Sodium	21.3	0.0541		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.977	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 6ft
2306298-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.3			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.362	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.66			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 11ft
2306298-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.067	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	470	5.0		"	10	"	"	06/16/23	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %		50-150		"	"	06/17/23	"	
Surrogate: Toluene-d8		77.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		1560 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	320	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	180	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 11ft
2306298-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.100		mg/kg	20	BGF0595	06/16/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.100		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.100		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100		"	"	"	"	"	"	
Chrysene	ND	0.100		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100		"	"	"	"	"	"	
Fluoranthene	ND	0.100		"	"	"	"	"	"	
Fluorene	ND	0.100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.100		"	"	"	"	"	"	
Pyrene	ND	0.100		"	"	"	"	"	"	
1-Methylnaphthalene	0.483	0.100		"	"	"	"	"	"	
2-Methylnaphthalene	1.16	0.100		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		109 %		40-150		"	"	06/16/23	"	
Surrogate: Fluoranthene-d10		107 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0859	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 11ft
2306298-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.524	0.231		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	16.3	0.463		"	"	"	"	"	"	
Cadmium	ND	0.231		"	"	"	"	"	"	
Copper	0.853	0.463		"	"	"	"	"	"	
Lead	1.95	0.231		"	"	"	"	"	"	
Nickel	ND	0.463		"	"	"	"	"	"	
Selenium	ND	0.301	0.202	"	"	"	"	"	"	
Silver	ND	0.0231		"	"	"	"	"	"	
Zinc	4.47	0.463		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.7	0.0578		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	7.59	0.0578		"	"	"	"	"	"	
Sodium	54.5	0.0578		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.26	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N 11ft
2306298-10 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.5			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.545	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.21			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 7ft
2306298-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/16/23	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	0.20	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	26	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		333 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	280	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	88	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 7ft
2306298-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0599	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0740	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.151	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 7ft
2306298-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.10	0.259	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	83.6	0.518	"	"	"	"	"	"
Cadmium	ND	0.259	"	"	"	"	"	"
Copper	3.26	0.518	"	"	"	"	"	"
Lead	8.73	0.259	"	"	"	"	"	"
Nickel	1.78	0.518	"	"	"	"	"	"
Selenium	ND	0.337	0.227	"	"	"	"	"
Silver	0.0503	0.0259	"	"	"	"	"	"
Zinc	9.54	0.518	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.2	0.0648		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	6.75	0.0648		"	"	"	"	"	"	
Sodium	57.5	0.0648		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.74	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 7ft
2306298-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	77.2			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.490	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.52			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 11ft
2306298-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.25	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4.0	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		58.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		714 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	360	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	110	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 11ft
2306298-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.100		mg/kg	20	BGF0595	06/16/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.100		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.100		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100		"	"	"	"	"	"	
Chrysene	ND	0.100		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100		"	"	"	"	"	"	
Fluoranthene	ND	0.100		"	"	"	"	"	"	
Fluorene	ND	0.100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.100		"	"	"	"	"	"	
Pyrene	ND	0.100		"	"	"	"	"	"	
1-Methylnaphthalene	0.520	0.100		"	"	"	"	"	"	
2-Methylnaphthalene	1.01	0.100		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		826 %		40-150		"	"	06/17/23	"	S-02
Surrogate: Fluoranthene-d10		93.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.115	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 11ft
2306298-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.91	0.231		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	38.1	0.461		"	"	"	"	"	"
Cadmium	ND	0.231		"	"	"	"	"	"
Copper	0.979	0.461		"	"	"	"	"	"
Lead	2.84	0.231		"	"	"	"	"	"
Nickel	0.548	0.461		"	"	"	"	"	"
Selenium	ND	0.300	0.202	"	"	"	"	"	"
Silver	ND	0.0231		"	"	"	"	"	"
Zinc	4.79	0.461		"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.5	0.0577		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	11.1	0.0577		"	"	"	"	"	"	
Sodium	69.7	0.0577		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.69	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N2 11ft
2306298-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.7			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.816	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.98			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 8ft
2306298-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/16/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		92.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		98.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 8ft
2306298-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.158	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 8ft
2306298-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.987	0.249	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	67.3	0.498	"	"	"	"	"	"
Cadmium	ND	0.249	"	"	"	"	"	"
Copper	2.71	0.498	"	"	"	"	"	"
Lead	9.16	0.249	"	"	"	"	"	"
Nickel	1.68	0.498	"	"	"	"	"	"
Selenium	ND	0.324	0.218	"	"	"	"	"
Silver	0.0518	0.0249	"	"	"	"	"	"
Zinc	8.90	0.498	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.3	0.0623		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	5.71	0.0623		"	"	"	"	"	"	
Sodium	41.7	0.0623		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.07	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 8ft
2306298-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	80.3			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.388	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.02			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 12ft
2306298-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/16/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		90.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		97.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 12ft
2306298-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0590	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 12ft
2306298-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.500	0.239		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	35.5	0.478		"	"	"	"	"	"	
Cadmium	ND	0.239		"	"	"	"	"	"	
Copper	1.07	0.478		"	"	"	"	"	"	
Lead	2.66	0.239		"	"	"	"	"	"	
Nickel	0.585	0.478		"	"	"	"	"	"	
Selenium	ND	0.311	0.209	"	"	"	"	"	"	
Silver	ND	0.0239		"	"	"	"	"	"	
Zinc	5.50	0.478		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.9	0.0597		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	8.00	0.0597		"	"	"	"	"	"	
Sodium	49.4	0.0597		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.15	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. N3 12ft
2306298-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.7			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.572	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.51			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 7ft
2306298-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.16	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	27	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		89.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		319 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	300	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	89	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		94.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 7ft
2306298-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0711	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.150	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		87.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		84.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0954	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 7ft
2306298-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.865	0.240	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	82.4	0.481	"	"	"	"	"	"
Cadmium	0.240	0.240	"	"	"	"	"	"
Copper	4.01	0.481	"	"	"	"	"	"
Lead	12.0	0.240	"	"	"	"	"	"
Nickel	2.10	0.481	"	"	"	"	"	"
Selenium	ND	0.312	0.210	"	"	"	"	"
Silver	0.0610	0.0240	"	"	"	"	"	"
Zinc	10.1	0.481	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	221	0.0601		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	51.1	0.0601		"	"	"	"	"	"	
Sodium	25.9	0.0601		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.408	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 7ft
2306298-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.2			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.330	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.97			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 12ft
2306298-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	6.9	0.50		"	100	"	"	06/16/23	"	
1,3,5-Trimethylbenzene	0.024	0.0050		"	1	"	"	06/17/23	"	
Naphthalene	0.077	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.9	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		161 %		50-150		"	"	"	"	S-02
Surrogate: Toluene-d8		99.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		704 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	560	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	140	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		95.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 12ft
2306298-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.100		mg/kg	20	BGF0595	06/16/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.100		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.100		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100		"	"	"	"	"	"	
Chrysene	ND	0.100		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100		"	"	"	"	"	"	
Fluoranthene	ND	0.100		"	"	"	"	"	"	
Fluorene	ND	0.100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.100		"	"	"	"	"	"	
Pyrene	ND	0.100		"	"	"	"	"	"	
1-Methylnaphthalene	0.812	0.100		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.100		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		104 %		40-150		"	"	06/17/23	"	
Surrogate: Fluoranthene-d10		84.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0565	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 12ft
2306298-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.532	0.228	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	16.7	0.457	"	"	"	"	"	"
Cadmium	ND	0.228	"	"	"	"	"	"
Copper	0.857	0.457	"	"	"	"	"	"
Lead	2.77	0.228	"	"	"	"	"	"
Nickel	ND	0.457	"	"	"	"	"	"
Selenium	ND	0.297	0.200	"	"	"	"	"
Silver	ND	0.0228	"	"	"	"	"	"
Zinc	4.02	0.457	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.3	0.0571		mg/L dry	1	BGF0701	06/20/23	06/22/23	EPA 6020B	
Magnesium	13.4	0.0571		"	"	"	"	"	"	
Sodium	39.7	0.0571		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.48	0.00100		units	1	BGF0824	06/22/23	06/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E 12ft
2306298-16 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	87.6			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.819	0.0100		mmhos/cm	1	BGF0728	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.86			pH Units	1	BGF0729	06/21/23	06/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 7ft
2306298-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.40	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	24	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		86.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		326 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	370	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	110	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		96.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 7ft
2306298-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.100		mg/kg	20	BGF0595	06/16/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.100		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.100		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100		"	"	"	"	"	"	
Chrysene	ND	0.100		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100		"	"	"	"	"	"	
Fluoranthene	ND	0.100		"	"	"	"	"	"	
Fluorene	ND	0.100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.100		"	"	"	"	"	"	
Pyrene	ND	0.100		"	"	"	"	"	"	
1-Methylnaphthalene	0.447	0.100		"	"	"	"	"	"	
2-Methylnaphthalene	1.12	0.100		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		101 %		40-150		"	"	06/17/23	"	
Surrogate: Fluoranthene-d10		101 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.166	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 7ft
2306298-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.479	0.233		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	26.5	0.466		"	"	"	"	"	"	
Cadmium	ND	0.233		"	"	"	"	"	"	
Copper	1.46	0.466		"	"	"	"	"	"	
Lead	3.13	0.233		"	"	"	"	"	"	
Nickel	ND	0.466		"	"	"	"	"	"	
Selenium	ND	0.303	0.204	"	"	"	"	"	"	
Silver	ND	0.0233		"	"	"	"	"	"	
Zinc	6.14	0.466		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	126	0.0582		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	33.9	0.0582		"	"	"	"	"	"	
Sodium	43.7	0.0582		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.892	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 7ft
2306298-17 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.9			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.336	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.45			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 9ft
2306298-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.51	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	34	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		90.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		329 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	430	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	130	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		107 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 9ft
2306298-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0753	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.152	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.402	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 9ft
2306298-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.18	0.263		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	266	0.527		"	"	"	"	"	"	
Cadmium	0.380	0.263		"	"	"	"	"	"	
Copper	4.39	0.527		"	"	"	"	"	"	
Lead	15.8	0.263		"	"	"	"	"	"	
Nickel	2.53	0.527		"	"	"	"	"	"	
Selenium	ND	0.342	0.230	"	"	"	"	"	"	
Silver	0.0975	0.0263		"	"	"	"	"	"	
Zinc	12.0	0.527		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	218	0.0658		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	66.9	0.0658		"	"	"	"	"	"	
Sodium	56.9	0.0658		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.865	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB-SEP. E2 9ft
2306298-18 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	75.9			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.289	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.49			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

**SB- AST W 8ft
2306298-19 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.14	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4.4	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		138 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		96.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST W 8ft
2306298-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0204	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.304	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST W 8ft
2306298-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.24	0.259		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	143	0.518		"	"	"	"	"	"	
Cadmium	0.351	0.259		"	"	"	"	"	"	
Copper	3.70	0.518		"	"	"	"	"	"	
Lead	11.1	0.259		"	"	"	"	"	"	
Nickel	1.71	0.518		"	"	"	"	"	"	
Selenium	ND	0.337	0.227	"	"	"	"	"	"	
Silver	0.0617	0.0259		"	"	"	"	"	"	
Zinc	9.43	0.518		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.6	0.0648		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	3.83	0.0648		"	"	"	"	"	"	
Sodium	13.1	0.0648		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.789	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

**SB- AST W 8ft
2306298-19 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	77.2			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.299	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.11			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST W 10ft
2306298-20 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.50	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		97.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST W 10ft
2306298-20 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0595	06/16/23	06/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0658	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.127	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.442	0.0100		mg/L	1	BGF0745	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

**SB- AST W 10ft
2306298-20 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.73	0.275		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	241	0.549		"	"	"	"	"	"
Cadmium	0.538	0.275		"	"	"	"	"	"
Copper	4.13	0.549		"	"	"	"	"	"
Lead	13.7	0.275		"	"	"	"	"	"
Nickel	2.26	0.549		"	"	"	"	"	"
Selenium	ND	0.357	0.240	"	"	"	"	"	"
Silver	0.0703	0.0275		"	"	"	"	"	"
Zinc	10.8	0.549		"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0589	06/16/23	06/16/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	140	0.0687		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	11.9	0.0687		"	"	"	"	"	"	
Sodium	68.3	0.0687		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.49	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST W 10ft
2306298-20 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	72.8			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.463	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.88			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S 7ft
2306298-21 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.17	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	54	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		82.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		581 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	860	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	220	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S 7ft
2306298-21 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Acenaphthene	ND	0.00500			mg/kg	1	BGF0594	06/16/23	06/17/23	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	0.0792	0.00500			"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500			"	"	"	"	"	"	
Pyrene	ND	0.00500			"	"	"	"	"	"	
1-Methylnaphthalene	0.377	0.00500			"	"	"	"	"	"	E
2-Methylnaphthalene	0.699	0.00500			"	"	"	"	"	"	E

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Surrogate: 2-Methylnaphthalene-d10		54.6 %			40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		120 %			40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Boron	0.197	0.0100			mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S 7ft
2306298-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.631	0.226		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	43.2	0.452		"	"	"	"	"	"	
Cadmium	ND	0.226		"	"	"	"	"	"	
Copper	2.12	0.452		"	"	"	"	"	"	
Lead	3.41	0.226		"	"	"	"	"	"	
Nickel	0.665	0.452		"	"	"	"	"	"	
Selenium	0.238	0.294	0.198	"	"	"	"	"	"	
Silver	ND	0.0226		"	"	"	"	"	"	
Zinc	6.57	0.452		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.99	0.0566		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	5.32	0.0566		"	"	"	"	"	"	
Sodium	7.83	0.0566		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.527	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S 7ft
2306298-21 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	88.4			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.481	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.06			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S 12ft
2306298-22 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.012	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	26	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		92.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		89.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		237 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		97.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S 12ft
2306298-22 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0594	06/16/23	06/17/23	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	0.0112	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0466	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.112	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		73.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		92.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.392	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

**SB- AST S 12ft
2306298-22 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.13	0.259	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	122	0.518	"	"	"	"	"	"
Cadmium	ND	0.259	"	"	"	"	"	"
Copper	3.27	0.518	"	"	"	"	"	"
Lead	8.00	0.259	"	"	"	"	"	"
Nickel	0.983	0.518	"	"	"	"	"	"
Selenium	ND	0.337	0.227	"	"	"	"	"
Silver	0.0399	0.0259	"	"	"	"	"	"
Zinc	8.71	0.518	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	338	0.0648		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	33.1	0.0648		"	"	"	"	"	"	
Sodium	53.7	0.0648		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.746	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S 12ft
2306298-22 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	77.2			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.335	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.71			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 8ft
2306298-23 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		89.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		98.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 8ft
2306298-23 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0594	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		86.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.296	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 8ft
2306298-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.80	0.259		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	104	0.517		"	"	"	"	"	"	
Cadmium	0.284	0.259		"	"	"	"	"	"	
Copper	3.85	0.517		"	"	"	"	"	"	
Lead	10.8	0.259		"	"	"	"	"	"	
Nickel	2.92	0.517		"	"	"	"	"	"	
Selenium	ND	0.336	0.226	"	"	"	"	"	"	
Silver	0.0600	0.0259		"	"	"	"	"	"	
Zinc	10.5	0.517		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.3	0.0647		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	18.1	0.0647		"	"	"	"	"	"	
Sodium	53.0	0.0647		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.32	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 8ft
2306298-23 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	77.3			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.389	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.27			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 12ft
2306298-24 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		88.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		97.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 12ft
2306298-24 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0594	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		81.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		103 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.332	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 12ft
2306298-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.979	0.248		mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B	
Barium	128	0.496		"	"	"	"	"	"	
Cadmium	0.258	0.248		"	"	"	"	"	"	
Copper	2.97	0.496		"	"	"	"	"	"	
Lead	9.08	0.248		"	"	"	"	"	"	
Nickel	1.15	0.496		"	"	"	"	"	"	
Selenium	ND	0.322	0.217	"	"	"	"	"	"	
Silver	0.0456	0.0248		"	"	"	"	"	"	
Zinc	9.49	0.496		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.3	0.0620		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	13.4	0.0620		"	"	"	"	"	"	
Sodium	35.3	0.0620		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 06/14/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.905	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST S2 12ft
2306298-24 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	80.6			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.258	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.66			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E 8ft
2306298-25 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.040	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	60	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		84.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		503 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	120	50		mg/kg	1	BGF0611	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		97.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E 8ft
2306298-25 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0594	06/16/23	06/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0122	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0308	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		96.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.286	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	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 - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E 8ft
2306298-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.23	0.274	mg/kg dry	1	BGF0660	06/19/23	06/22/23	EPA 6020B
Barium	189	0.549	"	"	"	"	"	"
Cadmium	0.320	0.274	"	"	"	"	"	"
Copper	4.05	0.549	"	"	"	"	"	"
Lead	10.6	0.274	"	"	"	"	"	"
Nickel	2.18	0.549	"	"	"	"	"	"
Selenium	ND	0.357	0.240	"	"	"	"	"
Silver	0.0576	0.0274	"	"	"	"	"	"
Zinc	11.0	0.549	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.0	0.0686		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	14.0	0.0686		"	"	"	"	"	"	
Sodium	35.6	0.0686		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E 8ft
2306298-25 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	72.9			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.294	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.97			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E2 9ft
2306298-26 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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	0.069	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	14	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		180 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		100 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E2 9ft
2306298-26 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0594	06/16/23	06/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0223	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0619	0.00500		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		89.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.384	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E2 9ft
2306298-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.63	0.255		mg/kg dry	1	BGF0661	06/19/23	06/23/23	EPA 6020B	
Barium	175	0.510		"	"	"	"	"	"	
Cadmium	0.411	0.255		"	"	"	"	"	"	
Copper	10.6	0.510		"	"	"	"	"	"	
Lead	14.5	0.255		"	"	"	"	"	"	
Nickel	6.31	0.510		"	"	"	"	"	"	
Selenium	ND	0.331	0.223	"	"	"	"	"	"	
Silver	0.108	0.0255		"	"	"	"	"	"	
Zinc	26.4	0.510		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	265	0.0637		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	40.9	0.0637		"	"	"	"	"	"	
Sodium	46.4	0.0637		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.701	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E2 9ft
2306298-26 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	78.5			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.278	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.59			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E3 8ft
2306298-27 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		87.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		97.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E3 8ft
2306298-27 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGF0594	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		75.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		90.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.265	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E3 8ft
2306298-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.23	0.259		mg/kg dry	1	BGF0661	06/19/23	06/23/23	EPA 6020B	
Barium	106	0.517		"	"	"	"	"	"	
Cadmium	0.397	0.259		"	"	"	"	"	"	
Copper	9.87	0.517		"	"	"	"	"	"	
Lead	11.5	0.259		"	"	"	"	"	"	
Nickel	8.02	0.517		"	"	"	"	"	"	
Selenium	ND	0.336	0.226	"	"	"	"	"	"	
Silver	0.0915	0.0259		"	"	"	"	"	"	
Zinc	23.8	0.517		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.9	0.0647		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	3.86	0.0647		"	"	"	"	"	"	
Sodium	7.73	0.0647		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 06/14/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.485	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST E3 8ft
2306298-27 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	77.3			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.302	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.78			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST N
2306298-28 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0609	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		90.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0611	06/16/23	06/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		98.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST N
2306298-28 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGF0594	06/16/23	06/17/23	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: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		64.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.118	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/23 00:00**

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

Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST N
2306298-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.25	0.264		mg/kg dry	1	BGF0661	06/19/23	06/23/23	EPA 6020B
Barium	99.2	0.527		"	"	"	"	"	"
Cadmium	0.264	0.264		"	"	"	"	"	"
Copper	7.65	0.527		"	"	"	"	"	"
Lead	9.01	0.264		"	"	"	"	"	"
Nickel	6.54	0.527		"	"	"	"	"	"
Selenium	ND	0.343	0.231	"	"	"	"	"	"
Silver	0.0490	0.0264		"	"	"	"	"	"
Zinc	20.1	0.527		"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0634	06/19/23	06/19/23	EPA 7196A	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.3	0.0659		mg/L dry	1	BGF0702	06/20/23	06/22/23	EPA 6020B	
Magnesium	4.00	0.0659		"	"	"	"	"	"	
Sodium	7.83	0.0659		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.472	0.00100		units	1	BGF0907	06/26/23	06/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

SB- AST N
2306298-28 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	75.9			%	1	BGF0605	06/16/23	06/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.291	0.0100		mmhos/cm	1	BGF0731	06/21/23	06/21/23	EPA 120.1	

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

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.77			pH Units	1	BGF0730	06/21/23	06/21/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

EAST
2306298-29 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0		ug/l	1	BGF0603	06/16/23	06/17/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	25	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		21-167		"	"	"	"	

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

WEST
2306298-30 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	1.2	1.0		ug/l	1	BGF0603	06/16/23	06/17/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	28	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.3	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		127 %		21-167		"	"	"	"	

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGF0603 - EPA 5030 Water MS

Blank (BGF0603-BLK1)

Prepared: 06/16/23 Analyzed: 06/17/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.5	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	21-167			

LCS (BGF0603-BS1)

Prepared: 06/16/23 Analyzed: 06/17/23

Benzene	40.8	1.0	ug/l	41.7		98.0	51-132			
Toluene	38.4	1.0	"	41.7		92.1	51-138			
Ethylbenzene	40.0	1.0	"	41.7		96.1	58-146			
m,p-Xylene	82.0	2.0	"	83.3		98.4	57-144			
o-Xylene	39.8	1.0	"	41.7		95.4	53-146			
Naphthalene	34.3	1.0	"	41.7		82.3	70-130			
1,2,4-Trimethylbenzene	45.1	1.0	"	41.7		108	70-130			
1,3,5-Trimethylbenzene	45.9	1.0	"	41.7		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.9	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.6	21-167			

Matrix Spike (BGF0603-MS1)

Source: 2306292-01

Prepared: 06/16/23 Analyzed: 06/17/23

Benzene	42.4	1.0	ug/l	41.7	ND	102	34-141			
Toluene	40.6	1.0	"	41.7	ND	97.4	27-151			
Ethylbenzene	40.9	1.0	"	41.7	ND	98.1	29-160			
m,p-Xylene	84.6	2.0	"	83.3	ND	102	20-166			
o-Xylene	40.9	1.0	"	41.7	ND	98.2	33-159			
Naphthalene	45.9	1.0	"	41.7	ND	110	70-130			
1,2,4-Trimethylbenzene	46.5	1.0	"	41.7	ND	112	70-130			
1,3,5-Trimethylbenzene	47.2	1.0	"	41.7	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.8	21-167			

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

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06/26/23 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGF0603 - EPA 5030 Water MS

Matrix Spike Dup (BGF0603-MSD1)		Source: 2306292-01			Prepared: 06/16/23 Analyzed: 06/17/23					
Benzene	42.6	1.0	ug/l	41.7	ND	102	34-141	0.306	30	
Toluene	40.0	1.0	"	41.7	ND	95.9	27-151	1.54	30	
Ethylbenzene	41.9	1.0	"	41.7	ND	101	29-160	2.42	30	
m,p-Xylene	85.5	2.0	"	83.3	ND	103	20-166	0.999	30	
o-Xylene	41.2	1.0	"	41.7	ND	98.8	33-159	0.634	30	
Naphthalene	47.3	1.0	"	41.7	ND	114	70-130	3.03	30	
1,2,4-Trimethylbenzene	46.4	1.0	"	41.7	ND	111	70-130	0.172	30	
1,3,5-Trimethylbenzene	47.6	1.0	"	41.7	ND	114	70-130	0.844	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0	21-167			

Batch BGF0608 - EPA 5030 Soil MS

Blank (BGF0608-BLK1)		Prepared & Analyzed: 06/16/23								
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	"							
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.5	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGF0608 - EPA 5030 Soil MS

LCS (BGF0608-BS1)

Prepared & Analyzed: 06/16/23

Benzene	0.0680	0.0020	mg/kg	0.0750		90.7	70-130			
Toluene	0.0804	0.0050	"	0.0750		107	70-130			
Ethylbenzene	0.0949	0.0050	"	0.0750		127	70-130			
m,p-Xylene	0.187	0.010	"	0.150		125	70-130			
o-Xylene	0.0824	0.0050	"	0.0750		110	70-130			
1,2,4-Trimethylbenzene	0.0868	0.0050	"	0.0750		116	70-130			
1,3,5-Trimethylbenzene	0.0910	0.0050	"	0.0750		121	70-130			
Naphthalene	0.0652	0.0038	"	0.0750		87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0400		83.8	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

Matrix Spike (BGF0608-MS1)

Source: 2306277-02

Prepared & Analyzed: 06/16/23

Benzene	0.0646	0.0020	mg/kg	0.0750	ND	86.1	70-130			
Toluene	0.0719	0.0050	"	0.0750	ND	95.9	70-130			
Ethylbenzene	0.0862	0.0050	"	0.0750	ND	115	70-130			
m,p-Xylene	0.170	0.010	"	0.150	ND	113	70-130			
o-Xylene	0.0759	0.0050	"	0.0750	ND	101	70-130			
1,2,4-Trimethylbenzene	0.0800	0.0050	"	0.0750	ND	107	70-130			
1,3,5-Trimethylbenzene	0.0832	0.0050	"	0.0750	ND	111	70-130			
Naphthalene	0.0672	0.0038	"	0.0750	ND	89.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0320		"	0.0400		80.0	50-150			
Surrogate: Toluene-d8	0.0371		"	0.0400		92.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

Matrix Spike Dup (BGF0608-MSD1)

Source: 2306277-02

Prepared & Analyzed: 06/16/23

Benzene	0.0635	0.0020	mg/kg	0.0750	ND	84.7	70-130	1.59	30	
Toluene	0.0712	0.0050	"	0.0750	ND	95.0	70-130	0.964	30	
Ethylbenzene	0.0862	0.0050	"	0.0750	ND	115	70-130	0.0348	30	
m,p-Xylene	0.169	0.010	"	0.150	ND	113	70-130	0.442	30	
o-Xylene	0.0765	0.0050	"	0.0750	ND	102	70-130	0.748	30	
1,2,4-Trimethylbenzene	0.0805	0.0050	"	0.0750	ND	107	70-130	0.673	30	
1,3,5-Trimethylbenzene	0.0834	0.0050	"	0.0750	ND	111	70-130	0.252	30	
Naphthalene	0.0685	0.0038	"	0.0750	ND	91.3	70-130	1.95	30	
Surrogate: 1,2-Dichloroethane-d4	0.0329		"	0.0400		82.2	50-150			
Surrogate: Toluene-d8	0.0371		"	0.0400		92.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGF0609 - EPA 5030 Soil MS

Blank (BGF0609-BLK1)

Prepared & Analyzed: 06/16/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0400		87.6	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.7	50-150			

LCS (BGF0609-BS1)

Prepared & Analyzed: 06/16/23

Benzene	0.118	0.0020	mg/kg	0.125		94.7	70-130			
Toluene	0.111	0.0050	"	0.125		89.0	70-130			
Ethylbenzene	0.128	0.0050	"	0.125		103	70-130			
m,p-Xylene	0.265	0.010	"	0.250		106	70-130			
o-Xylene	0.124	0.0050	"	0.125		99.0	70-130			
1,2,4-Trimethylbenzene	0.143	0.0050	"	0.125		115	70-130			
1,3,5-Trimethylbenzene	0.147	0.0050	"	0.125		118	70-130			
Naphthalene	0.143	0.0038	"	0.125		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0400		89.9	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		96.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

Matrix Spike (BGF0609-MS1)

Source: 2306298-13

Prepared & Analyzed: 06/16/23

Benzene	0.118	0.0020	mg/kg	0.125	ND	94.7	70-130			
Toluene	0.113	0.0050	"	0.125	ND	90.6	70-130			
Ethylbenzene	0.130	0.0050	"	0.125	ND	104	70-130			
m,p-Xylene	0.266	0.010	"	0.250	ND	106	70-130			
o-Xylene	0.124	0.0050	"	0.125	ND	99.1	70-130			
1,2,4-Trimethylbenzene	0.146	0.0050	"	0.125	ND	117	70-130			
1,3,5-Trimethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130			
Naphthalene	0.139	0.0038	"	0.125	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0400		90.7	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	50-150			

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Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGF0609 - EPA 5030 Soil MS

Matrix Spike Dup (BGF0609-MSD1)	Source: 2306298-13			Prepared & Analyzed: 06/16/23						
Benzene	0.120	0.0020	mg/kg	0.125	ND	96.0	70-130	1.36	30	
Toluene	0.115	0.0050	"	0.125	ND	91.8	70-130	1.42	30	
Ethylbenzene	0.126	0.0050	"	0.125	ND	101	70-130	2.85	30	
m,p-Xylene	0.266	0.010	"	0.250	ND	106	70-130	0.0677	30	
o-Xylene	0.124	0.0050	"	0.125	ND	99.3	70-130	0.218	30	
1,2,4-Trimethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130	1.98	30	
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130	1.79	30	
Naphthalene	0.148	0.0038	"	0.125	ND	119	70-130	6.19	30	
Surrogate: 1,2-Dichloroethane-d4	0.0368		"	0.0400		92.0	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF0610 - EPA 3550A

Blank (BGF0610-BLK1)

Prepared & Analyzed: 06/16/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.6		"	12.5	101		30-150			

LCS (BGF0610-BS1)

Prepared & Analyzed: 06/16/23

C10-C28 (DRO)	537	50	mg/kg	500	107		70-130			
Surrogate: o-Terphenyl	12.2		"	12.5	97.4		30-150			

Matrix Spike (BGF0610-MS1)

Source: 2306277-02

Prepared & Analyzed: 06/16/23

C10-C28 (DRO)	541	50	mg/kg	500	23.2	104	70-130			
Surrogate: o-Terphenyl	12.0		"	12.5	95.7		30-150			

Matrix Spike Dup (BGF0610-MSD1)

Source: 2306277-02

Prepared & Analyzed: 06/16/23

C10-C28 (DRO)	570	50	mg/kg	500	23.2	109	70-130	5.20	20	
Surrogate: o-Terphenyl	12.2		"	12.5	97.7		30-150			

Batch BGF0611 - EPA 3550A

Blank (BGF0611-BLK1)

Prepared & Analyzed: 06/16/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.4		"	12.5	99.3		30-150			

LCS (BGF0611-BS1)

Prepared & Analyzed: 06/16/23

C10-C28 (DRO)	457	50	mg/kg	500	91.5		70-130			
Surrogate: o-Terphenyl	12.2		"	12.5	97.9		30-150			

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF0611 - EPA 3550A

Matrix Spike (BGF0611-MS1)		Source: 2306298-13			Prepared & Analyzed: 06/16/23					
C10-C28 (DRO)	472	50	mg/kg	500	9.77	92.4	70-130			
Surrogate: o-Terphenyl	12.1		"	12.5		96.6	30-150			
Matrix Spike Dup (BGF0611-MSD1)		Source: 2306298-13			Prepared & Analyzed: 06/16/23					
C10-C28 (DRO)	476	50	mg/kg	500	9.77	93.2	70-130	0.908	20	
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

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Project Number: UWRWE-A1712-ABN
Project Manager: Paul Henehan

Reported:
06/26/23 14:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0594 - EPA 5030 Soil MS

Blank (BGF0594-BLK1)

Prepared: 06/16/23 Analyzed: 06/17/23

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	0.0309		"	0.0333		92.6	40-150			
Surrogate: Fluoranthene-d10	0.0407		"	0.0333		122	40-150			

LCS (BGF0594-BS1)

Prepared: 06/16/23 Analyzed: 06/17/23

Acenaphthene	0.0372	0.00500	mg/kg	0.0333	112	31-137
Anthracene	0.0393	0.00500	"	0.0333	118	30-120
Benzo (a) anthracene	0.0388	0.00500	"	0.0333	116	30-120
Benzo (a) pyrene	0.0364	0.00500	"	0.0333	109	30-120
Benzo (b) fluoranthene	0.0371	0.00500	"	0.0333	111	30-120
Benzo (k) fluoranthene	0.0351	0.00500	"	0.0333	105	30-120
Chrysene	0.0380	0.00500	"	0.0333	114	30-120
Dibenz (a,h) anthracene	0.0212	0.00500	"	0.0333	63.5	30-120
Fluoranthene	0.0372	0.00500	"	0.0333	112	30-120
Fluorene	0.0366	0.00500	"	0.0333	110	30-120
Indeno (1,2,3-cd) pyrene	0.0233	0.00500	"	0.0333	69.9	30-120
Pyrene	0.0376	0.00500	"	0.0333	113	35-142
1-Methylnaphthalene	0.0372	0.00500	"	0.0333	112	35-142
2-Methylnaphthalene	0.0390	0.00500	"	0.0333	117	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0370		"	0.0333	111	40-150
Surrogate: Fluoranthene-d10	0.0383		"	0.0333	115	40-150

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0594 - EPA 5030 Soil MS

Matrix Spike (BGF0594-MS1)		Source: 2306278-01			Prepared: 06/16/23 Analyzed: 06/17/23					
Acenaphthene	0.0252	0.00500	mg/kg	0.0333	ND	75.7	31-137			
Anthracene	0.0259	0.00500	"	0.0333	ND	77.8	30-120			
Benzo (a) anthracene	0.0286	0.00500	"	0.0333	ND	85.9	30-120			
Benzo (a) pyrene	0.0248	0.00500	"	0.0333	ND	74.3	30-120			
Benzo (b) fluoranthene	0.0267	0.00500	"	0.0333	ND	80.0	30-120			
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.7	30-120			
Chrysene	0.0276	0.00500	"	0.0333	ND	82.9	30-120			
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	30-120			
Fluoranthene	0.0256	0.00500	"	0.0333	ND	76.7	30-120			
Fluorene	0.0252	0.00500	"	0.0333	ND	75.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0174	0.00500	"	0.0333	ND	52.1	30-120			
Pyrene	0.0290	0.00500	"	0.0333	ND	87.0	35-142			
1-Methylnaphthalene	0.0282	0.00500	"	0.0333	ND	84.6	15-130			
2-Methylnaphthalene	0.0266	0.00500	"	0.0333	ND	79.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0276		"	0.0333		82.7	40-150			
Surrogate: Fluoranthene-d10	0.0261		"	0.0333		78.3	40-150			

Matrix Spike Dup (BGF0594-MSD1)		Source: 2306278-01			Prepared: 06/16/23 Analyzed: 06/17/23					
Acenaphthene	0.0275	0.00500	mg/kg	0.0333	ND	82.4	31-137	8.48	30	
Anthracene	0.0287	0.00500	"	0.0333	ND	86.0	30-120	9.95	30	
Benzo (a) anthracene	0.0306	0.00500	"	0.0333	ND	91.9	30-120	6.76	30	
Benzo (a) pyrene	0.0275	0.00500	"	0.0333	ND	82.5	30-120	10.4	30	
Benzo (b) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.5	30-120	7.84	30	
Benzo (k) fluoranthene	0.0271	0.00500	"	0.0333	ND	81.3	30-120	11.2	30	
Chrysene	0.0302	0.00500	"	0.0333	ND	90.6	30-120	8.85	30	
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	7.20	30	
Fluoranthene	0.0276	0.00500	"	0.0333	ND	82.8	30-120	7.70	30	
Fluorene	0.0279	0.00500	"	0.0333	ND	83.7	30-120	10.2	30	
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	20.6	30	
Pyrene	0.0307	0.00500	"	0.0333	ND	92.1	35-142	5.70	30	
1-Methylnaphthalene	0.0298	0.00500	"	0.0333	ND	89.3	15-130	5.37	50	
2-Methylnaphthalene	0.0282	0.00500	"	0.0333	ND	84.7	15-130	5.87	50	
Surrogate: 2-Methylnaphthalene-d10	0.0297		"	0.0333		89.1	40-150			
Surrogate: Fluoranthene-d10	0.0292		"	0.0333		87.7	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0595 - EPA 5030 Soil MS

Blank (BGF0595-BLK1)

Prepared & Analyzed: 06/16/23

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	0.0330		"	0.0333		98.9	40-150			
Surrogate: Fluoranthene-d10	0.0399		"	0.0333		120	40-150			

LCS (BGF0595-BS1)

Prepared & Analyzed: 06/16/23

Acenaphthene	0.0323	0.00500	mg/kg	0.0333		97.0	31-137			
Anthracene	0.0310	0.00500	"	0.0333		93.0	30-120			
Benzo (a) anthracene	0.0282	0.00500	"	0.0333		84.6	30-120			
Benzo (a) pyrene	0.0251	0.00500	"	0.0333		75.4	30-120			
Benzo (b) fluoranthene	0.0269	0.00500	"	0.0333		80.8	30-120			
Benzo (k) fluoranthene	0.0279	0.00500	"	0.0333		83.6	30-120			
Chrysene	0.0313	0.00500	"	0.0333		93.8	30-120			
Dibenz (a,h) anthracene	0.0218	0.00500	"	0.0333		65.5	30-120			
Fluoranthene	0.0296	0.00500	"	0.0333		88.7	30-120			
Fluorene	0.0345	0.00500	"	0.0333		103	30-120			
Indeno (1,2,3-cd) pyrene	0.0255	0.00500	"	0.0333		76.4	30-120			
Pyrene	0.0338	0.00500	"	0.0333		101	35-142			
1-Methylnaphthalene	0.0268	0.00500	"	0.0333		80.6	35-142			
2-Methylnaphthalene	0.0269	0.00500	"	0.0333		80.8	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0273		"	0.0333		82.0	40-150			
Surrogate: Fluoranthene-d10	0.0307		"	0.0333		92.1	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0595 - EPA 5030 Soil MS

Matrix Spike (BGF0595-MS1)

Source: 2306298-07

Prepared & Analyzed: 06/16/23

Acenaphthene	0.0256	0.00500	mg/kg	0.0333	ND	76.9	31-137		
Anthracene	0.0265	0.00500	"	0.0333	ND	79.5	30-120		
Benzo (a) anthracene	0.0289	0.00500	"	0.0333	ND	86.8	30-120		
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.2	30-120		
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120		
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120		
Chrysene	0.0264	0.00500	"	0.0333	ND	79.2	30-120		
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.7	30-120		
Fluoranthene	0.0265	0.00500	"	0.0333	ND	79.5	30-120		
Fluorene	0.0254	0.00500	"	0.0333	ND	76.2	30-120		
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.7	30-120		
Pyrene	0.0275	0.00500	"	0.0333	ND	82.6	35-142		
1-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.1	15-130		
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.2	40-150		
Surrogate: Fluoranthene-d10	0.0289		"	0.0333		86.7	40-150		

Matrix Spike Dup (BGF0595-MSD1)

Source: 2306298-07

Prepared & Analyzed: 06/16/23

Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.6	31-137	25.4	30
Anthracene	0.0206	0.00500	"	0.0333	ND	61.7	30-120	25.3	30
Benzo (a) anthracene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	27.4	30
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	ND	53.8	30-120	11.2	30
Benzo (b) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	17.9	30
Benzo (k) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	22.9	30
Chrysene	0.0225	0.00500	"	0.0333	ND	67.4	30-120	16.0	30
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	12.5	30
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	27.0	30
Fluorene	0.0206	0.00500	"	0.0333	ND	61.8	30-120	20.9	30
Indeno (1,2,3-cd) pyrene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	7.95	30
Pyrene	0.0210	0.00500	"	0.0333	ND	62.9	35-142	27.2	30
1-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	66.9	15-130	1.75	50
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	15-130	8.46	50
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333		67.0	40-150		
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.5	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BGF0745 - EPA 3050B

Blank (BGF0745-BLK1)

Prepared: 06/21/23 Analyzed: 06/25/23

Boron ND 0.0100 mg/L

LCS (BGF0745-BS1)

Prepared: 06/21/23 Analyzed: 06/25/23

Boron 5.64 0.0100 mg/L 5.00 113 80-120

Duplicate (BGF0745-DUP1)

Source: 2306298-01

Prepared: 06/21/23 Analyzed: 06/25/23

Boron 0.126 0.0100 mg/L 0.136 7.58 20

Matrix Spike (BGF0745-MS1)

Source: 2306298-01

Prepared: 06/21/23 Analyzed: 06/25/23

Boron 5.58 0.0100 mg/L 5.00 0.136 109 75-125

Matrix Spike Dup (BGF0745-MSD1)

Source: 2306298-01

Prepared: 06/21/23 Analyzed: 06/25/23

Boron 5.78 0.0100 mg/L 5.00 0.136 113 75-125 3.61 25

Batch BGF0746 - EPA 3050B

Blank (BGF0746-BLK1)

Prepared: 06/21/23 Analyzed: 06/26/23

Boron ND 0.0100 mg/L

LCS (BGF0746-BS1)

Prepared: 06/21/23 Analyzed: 06/26/23

Boron 5.63 0.0100 mg/L 5.00 113 80-120

Duplicate (BGF0746-DUP1)

Source: 2306298-21

Prepared: 06/21/23 Analyzed: 06/26/23

Boron 0.175 0.0100 mg/L 0.197 11.9 20

Matrix Spike (BGF0746-MS1)

Source: 2306298-21

Prepared: 06/21/23 Analyzed: 06/26/23

Boron 5.63 0.0100 mg/L 5.00 0.197 109 75-125

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BGF0746 - EPA 3050B

Matrix Spike Dup (BGF0746-MSD1)

Source: 2306298-21

Prepared: 06/21/23 Analyzed: 06/26/23

Boron	5.74	0.0100	mg/L	5.00	0.197	111	75-125	1.99	25
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0591 - EPA 3050B

Blank (BGF0591-BLK1)

Prepared: 06/16/23 Analyzed: 06/20/23

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGF0591-BS1)

Prepared: 06/16/23 Analyzed: 06/20/23

Arsenic	40.3	0.200	mg/kg wet	40.0	101	80-120
Barium	37.6	0.400	"	40.0	93.9	80-120
Cadmium	1.87	0.200	"	2.00	93.4	80-120
Copper	40.8	0.400	"	40.0	102	80-120
Lead	18.7	0.200	"	20.0	93.7	80-120
Nickel	40.3	0.400	"	40.0	101	80-120
Selenium	4.24	0.260	"	4.00	106	80-120
Silver	1.80	0.0200	"	2.00	90.2	80-120
Zinc	41.2	0.400	"	40.0	103	80-120

Duplicate (BGF0591-DUP1)

Source: 2306017-01

Prepared: 06/16/23 Analyzed: 06/20/23

Arsenic	1.37	0.254	mg/kg dry	1.41	2.77	20
Barium	254	0.509	"	288	12.4	20
Cadmium	0.325	0.254	"	0.333	2.47	20
Copper	3.31	0.509	"	3.27	1.31	20
Lead	9.43	0.254	"	9.16	2.89	20
Nickel	3.76	0.509	"	3.71	1.39	20
Selenium	ND	0.331	"	ND		20
Silver	0.0519	0.0254	"	0.0549	5.71	20
Zinc	12.5	0.509	"	12.3	2.18	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0591 - EPA 3050B

Matrix Spike (BGF0591-MS1)		Source: 2306017-01			Prepared: 06/16/23 Analyzed: 06/20/23						
Arsenic	12.6	0.254	mg/kg dry	50.9	1.41	21.9	75-125				QM-07
Barium	334	0.509	"	50.9	288	91.6	75-125				
Cadmium	2.66	0.254	"	2.54	0.333	91.4	75-125				
Copper	15.1	0.509	"	50.9	3.27	23.3	75-125				QM-07
Lead	31.2	0.254	"	25.4	9.16	86.5	75-125				
Nickel	15.9	0.509	"	50.9	3.71	24.0	75-125				QM-07
Selenium	4.68	0.331	"	5.09	ND	92.0	75-125				
Silver	2.27	0.0254	"	2.54	0.0549	87.1	75-125				
Zinc	24.4	0.509	"	50.9	12.3	23.8	75-125				QM-07

Matrix Spike Dup (BGF0591-MSD1)		Source: 2306017-01			Prepared: 06/16/23 Analyzed: 06/20/23						
Arsenic	12.7	0.254	mg/kg dry	50.9	1.41	22.2	75-125	0.967	25		QM-07
Barium	314	0.509	"	50.9	288	50.7	75-125	6.43	25		QM-07
Cadmium	2.55	0.254	"	2.54	0.333	87.1	75-125	4.14	25		
Copper	15.3	0.509	"	50.9	3.27	23.6	75-125	1.04	25		QM-07
Lead	29.3	0.254	"	25.4	9.16	79.3	75-125	6.10	25		
Nickel	15.9	0.509	"	50.9	3.71	24.0	75-125	0.0127	25		QM-07
Selenium	4.66	0.331	"	5.09	ND	91.5	75-125	0.512	25		
Silver	2.14	0.0254	"	2.54	0.0549	81.9	75-125	6.05	25		
Zinc	24.6	0.509	"	50.9	12.3	24.2	75-125	0.901	25		QM-07

Batch BGF0660 - EPA 3050B

Blank (BGF0660-BLK1)		Prepared: 06/19/23 Analyzed: 06/22/23									
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	"								
Selenium	ND	0.260	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0660 - EPA 3050B

LCS (BGF0660-BS1)

Prepared: 06/19/23 Analyzed: 06/22/23

Arsenic	41.0	0.200	mg/kg wet	40.0		102	80-120			
Barium	35.9	0.400	"	40.0		89.7	80-120			
Cadmium	1.79	0.200	"	2.00		89.5	80-120			
Copper	41.1	0.400	"	40.0		103	80-120			
Lead	18.2	0.200	"	20.0		90.8	80-120			
Nickel	40.7	0.400	"	40.0		102	80-120			
Selenium	4.14	0.260	"	4.00		104	80-120			
Silver	1.74	0.0200	"	2.00		86.9	80-120			
Zinc	43.4	0.400	"	40.0		108	80-120			

Duplicate (BGF0660-DUP1)

Source: 2306298-07

Prepared: 06/19/23 Analyzed: 06/22/23

Arsenic	0.827	0.241	mg/kg dry		0.909		9.50	20		
Barium	124	0.482	"		159		24.5	20		QR-04
Cadmium	0.173	0.241	"		0.187		7.51	20		
Copper	2.99	0.482	"		3.13		4.51	20		
Lead	6.90	0.241	"		9.23		28.9	20		QR-04
Nickel	1.49	0.482	"		1.69		12.3	20		
Selenium	ND	0.314	"		ND			20		
Silver	0.0458	0.0241	"		0.0492		7.11	20		
Zinc	7.97	0.482	"		9.30		15.4	20		

Matrix Spike (BGF0660-MS1)

Source: 2306298-07

Prepared: 06/19/23 Analyzed: 06/22/23

Arsenic	12.4	0.241	mg/kg dry	48.2	0.909	23.7	75-125			QM-07
Barium	140	0.482	"	48.2	159	NR	75-125			QM-07
Cadmium	2.28	0.241	"	2.41	0.187	87.0	75-125			
Copper	15.4	0.482	"	48.2	3.13	25.4	75-125			QM-07
Lead	27.3	0.241	"	24.1	9.23	75.0	75-125			
Nickel	13.9	0.482	"	48.2	1.69	25.3	75-125			QM-07
Selenium	5.30	0.314	"	4.82	ND	110	75-125			
Silver	2.04	0.0241	"	2.41	0.0492	82.7	75-125			
Zinc	22.1	0.482	"	48.2	9.30	26.5	75-125			QM-07

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Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0660 - EPA 3050B

Matrix Spike Dup (BGF0660-MSD1)

Source: 2306298-07

Prepared: 06/19/23 Analyzed: 06/22/23

Arsenic	12.6	0.241	mg/kg dry	48.2	0.909	24.2	75-125	1.69	25	QM-07
Barium	138	0.482	"	48.2	159	NR	75-125	1.26	25	QM-07
Cadmium	2.26	0.241	"	2.41	0.187	85.9	75-125	1.13	25	
Copper	15.4	0.482	"	48.2	3.13	25.4	75-125	0.0471	25	QM-07
Lead	27.1	0.241	"	24.1	9.23	74.0	75-125	0.917	25	QM-07
Nickel	14.0	0.482	"	48.2	1.69	25.5	75-125	0.547	25	QM-07
Selenium	4.87	0.314	"	4.82	ND	101	75-125	8.35	25	
Silver	2.05	0.0241	"	2.41	0.0492	83.1	75-125	0.541	25	
Zinc	22.5	0.482	"	48.2	9.30	27.5	75-125	2.08	25	QM-07

Batch BGF0661 - EPA 3050B

Blank (BGF0661-BLK1)

Prepared: 06/19/23 Analyzed: 06/23/23

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGF0661-BS1)

Prepared: 06/19/23 Analyzed: 06/23/23

Arsenic	34.5	0.200	mg/kg wet	40.0	86.4	80-120
Barium	35.2	0.400	"	40.0	88.0	80-120
Cadmium	1.80	0.200	"	2.00	89.8	80-120
Copper	37.1	0.400	"	40.0	92.8	80-120
Lead	17.6	0.200	"	20.0	88.2	80-120
Nickel	36.4	0.400	"	40.0	91.0	80-120
Selenium	3.99	0.260	"	4.00	99.7	80-120
Silver	1.78	0.0200	"	2.00	88.9	80-120
Zinc	36.3	0.400	"	40.0	90.7	80-120

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0661 - EPA 3050B

Duplicate (BGF0661-DUP1)		Source: 2306298-26			Prepared: 06/19/23 Analyzed: 06/23/23					
Arsenic	4.94	0.255	mg/kg dry		4.63			6.49	20	
Barium	178	0.510	"		175			1.33	20	
Cadmium	0.437	0.255	"		0.411			6.01	20	
Copper	10.8	0.510	"		10.6			2.48	20	
Lead	14.5	0.255	"		14.5			0.0598	20	
Nickel	6.68	0.510	"		6.31			5.70	20	
Selenium	ND	0.331	"		ND				20	
Silver	0.103	0.0255	"		0.108			4.34	20	
Zinc	26.5	0.510	"		26.4			0.295	20	

Matrix Spike (BGF0661-MS1)		Source: 2306298-26			Prepared: 06/19/23 Analyzed: 06/23/23					
Arsenic	44.4	0.255	mg/kg dry	51.0	4.63	78.1	75-125			
Barium	217	0.510	"	51.0	175	81.6	75-125			
Cadmium	2.63	0.255	"	2.55	0.411	87.1	75-125			
Copper	32.9	0.510	"	51.0	10.6	43.8	75-125			QM-07
Lead	34.6	0.255	"	25.5	14.5	79.0	75-125			
Nickel	28.9	0.510	"	51.0	6.31	44.3	75-125			QM-07
Selenium	3.94	0.331	"	5.10	ND	77.2	75-125			
Silver	2.32	0.0255	"	2.55	0.108	86.8	75-125			
Zinc	51.0	0.510	"	51.0	26.4	48.1	75-125			QM-07

Matrix Spike Dup (BGF0661-MSD1)		Source: 2306298-26			Prepared: 06/19/23 Analyzed: 06/23/23					
Arsenic	46.5	0.255	mg/kg dry	51.0	4.63	82.1	75-125	4.57	25	
Barium	226	0.510	"	51.0	175	99.1	75-125	4.02	25	
Cadmium	2.72	0.255	"	2.55	0.411	90.6	75-125	3.37	25	
Copper	32.5	0.510	"	51.0	10.6	42.9	75-125	1.31	25	QM-07
Lead	36.6	0.255	"	25.5	14.5	86.9	75-125	5.67	25	
Nickel	28.8	0.510	"	51.0	6.31	44.2	75-125	0.247	25	QM-07
Selenium	3.66	0.331	"	5.10	ND	71.9	75-125	7.15	25	QM-07
Silver	2.37	0.0255	"	2.55	0.108	88.8	75-125	2.19	25	
Zinc	51.1	0.510	"	51.0	26.4	48.3	75-125	0.157	25	QM-07

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGF0589 - 3060A Mod

Blank (BGF0589-BLK1)					Prepared & Analyzed: 06/16/23					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BGF0589-BS1)					Prepared & Analyzed: 06/16/23					
Chromium, Hexavalent	23.2	0.30	mg/kg wet	25.0		92.6	80-120			
Duplicate (BGF0589-DUP1)					Source: 2306298-01		Prepared & Analyzed: 06/16/23			
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BGF0589-MS1)					Source: 2306298-01		Prepared & Analyzed: 06/16/23			
Chromium, Hexavalent	24.8	0.30	mg/kg dry	27.2	ND	91.0	75-125			
Matrix Spike Dup (BGF0589-MSD1)					Source: 2306298-01		Prepared & Analyzed: 06/16/23			
Chromium, Hexavalent	24.9	0.30	mg/kg dry	27.2	ND	91.6	75-125	0.657	20	

Batch BGF0634 - 3060A Mod

Blank (BGF0634-BLK1)					Prepared & Analyzed: 06/19/23					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BGF0634-BS1)					Prepared & Analyzed: 06/19/23					
Chromium, Hexavalent	21.7	0.30	mg/kg wet	25.0		86.8	80-120			
Duplicate (BGF0634-DUP1)					Source: 2305661-02		Prepared & Analyzed: 06/19/23			
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BGF0634-MS1)					Source: 2305661-02		Prepared & Analyzed: 06/19/23			
Chromium, Hexavalent	29.8	0.30	mg/kg dry	32.7	ND	91.2	75-125			

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGF0634 - 3060A Mod

Matrix Spike Dup (BGF0634-MSD1)

Source: 2305661-02

Prepared & Analyzed: 06/19/23

Chromium, Hexavalent	30.3	0.30	mg/kg dry	32.7	ND	92.6	75-125	1.52	20
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Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

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

Summit Scientific

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

Batch BGF0701 - General Preparation

Blank (BGF0701-BLK1)

Prepared: 06/20/23 Analyzed: 06/22/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BGF0701-BS1)

Prepared: 06/20/23 Analyzed: 06/22/23

Calcium	5.17	0.0500	mg/L wet	5.00	103	70-130
Magnesium	4.63	0.0500	"	5.00	92.6	70-130
Sodium	4.86	0.0500	"	5.00	97.2	70-130

Batch BGF0702 - General Preparation

Blank (BGF0702-BLK1)

Prepared: 06/20/23 Analyzed: 06/22/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BGF0702-BS1)

Prepared: 06/20/23 Analyzed: 06/22/23

Calcium	4.08	0.0500	mg/L wet	5.00	81.7	70-130
Magnesium	4.84	0.0500	"	5.00	96.8	70-130
Sodium	5.55	0.0500	"	5.00	111	70-130

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Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BGF0605 - General Preparation

Duplicate (BGF0605-DUP1)

Source: 2306298-01

Prepared & Analyzed: 06/16/23

% Solids	91.9	%	91.8	0.0883	20
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Summit Scientific

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGF0728 - General Preparation

Blank (BGF0728-BLK1)

Prepared & Analyzed: 06/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF0728-BS1)

Prepared & Analyzed: 06/21/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGF0728-DUP1)

Source: 2304559-01

Prepared & Analyzed: 06/21/23

Specific Conductance (EC) 0.988 0.0100 mmhos/cm 0.988 0.0405 20

Batch BGF0731 - General Preparation

Blank (BGF0731-BLK1)

Prepared & Analyzed: 06/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF0731-BS1)

Prepared & Analyzed: 06/21/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGF0731-DUP1)

Source: 2306298-17

Prepared & Analyzed: 06/21/23

Specific Conductance (EC) 0.332 0.0100 mmhos/cm 0.336 1.29 20

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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN

Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGF0729 - General Preparation

LCS (BGF0729-BS1)

Prepared & Analyzed: 06/21/23

pH	8.90		pH Units	9.18		96.9	95-105
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Duplicate (BGF0729-DUP1)

Source: 2306287-01

Prepared & Analyzed: 06/21/23

pH	8.19		pH Units		8.19			0.00	20
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Batch BGF0730 - General Preparation

LCS (BGF0730-BS1)

Prepared & Analyzed: 06/21/23

pH	8.94		pH Units	9.18		97.4	95-105
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Duplicate (BGF0730-DUP1)

Source: 2306298-17

Prepared & Analyzed: 06/21/23

pH	8.24		pH Units		8.45			2.52	20
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Project: Noble - Clyncke B36-25

Project Number: UWRWE-A1712-ABN
Project Manager: Paul Henehan

Reported:
06/26/23 14:16

Notes and Definitions

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.
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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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