

TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
KISSLER K-64N66W 21SESW, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C024-001

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
AST01 0.5'	01/02/2024	0.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST02 0.5'	01/02/2024	0.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV FLOOR01 5'	01/02/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV FLOOR02 5'	01/02/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP01 DL3'	01/02/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP02 DL3'	01/02/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

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

Green highlighted cells indicate soil removed via excavation

\* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
KISSLER K-64N66W 21SESW, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C024-001

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl - Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST01 0.5'	01/02/2024	0.5'	<0.00500	<0.00500	<b>0.0121</b>	0.0141	0.0127	0.00869	0.011	<0.00500	0.0165	<0.00500	<0.00500	0.0256	<0.00500	<0.00500
AST02 0.5'	01/02/2024	0.5'	<0.00500	<0.00500	0.00904	0.0114	0.00866	0.00679	0.00771	<0.00500	0.011	<0.00500	<0.00500	0.0159	<0.00500	<0.00500
PWV FLOOR01 5'	01/02/2024	5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV FLOOR02 5'	01/02/2024	5'	<0.00500	<0.00500	0.00825	0.0163	0.0148	0.00761	0.0154	<0.00500	0.0233	<0.00500	<0.00500	0.0463	<0.00500	<0.00500
SEP01 DL3'	01/02/2024	3'	<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
SEP02 DL3'	01/02/2024	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations

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

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green highlighted cells indicate soil removed via excavation

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY INC.**  
**KISSLER K-64N66W 21SES, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C024-001**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
AST01 0.5'	01/02/2024	0.5'	7.24	0.210	0.098	<2.00
AST02 0.5'	01/02/2024	0.5'	6.93	0.0528	0.0162	<2.00
PWV FLOOR01 5'	01/02/2024	5'	<b>8.41</b>	0.121	0.0605	<2.00
PWV FLOOR02 5'	01/02/2024	5'	<b>8.36</b>	0.126	0.0382	<2.00
SEP01 DL3'	01/02/2024	3'	7.47	0.140	0.300	<2.00
SEP02 DL3'	01/02/2024	3'	7.86	0.242	0.138	<2.00

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

Green highlighted cells indicate soil removed via excavation

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.  
KISSLER K-64N66W 21SESW, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C024-001

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
Max. Background Concentration			-	-	-	-	-	-	-	-	-	-
125% Max. Background Concentration			-	-	-	-	-	-	-	-	-	-
AST01 0.5'	01/02/2024	0.5'	<b>1.06</b>	71.1	<b>0.548</b>	<0.30	6.59	<b>19.6</b>	1.65	<0.260	0.334	24.4
AST02 0.5'	01/02/2024	0.5'	<b>1.13</b>	72.7	<b>0.533</b>	<0.30	6.56	<b>19.5</b>	1.75	<0.260	0.299	24.9
PWV FLOOR01 5'	01/02/2024	5'	<b>1.04</b>	61.9	0.251	<0.30	3.41	12.0	2.15	<0.260	0.129	12.9
PWV FLOOR02 5'	01/02/2024	5'	<b>0.932</b>	68.8	0.341	<0.30	4.52	12.2	1.81	<0.260	0.181	18.6
SEP01 DL3'	01/02/2024	3'	<b>0.724</b>	72.4	<0.200	<0.30	2.12	8.36	1.96	<0.260	0.0613	7.82
SEP02 DL3'	01/02/2024	3'	<b>1.01</b>	81.8	0.305	<0.30	4.90	13.2	1.75	<0.260	0.202	16.3

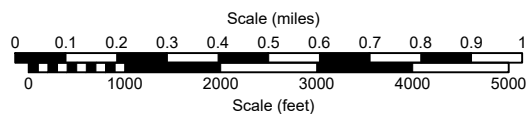
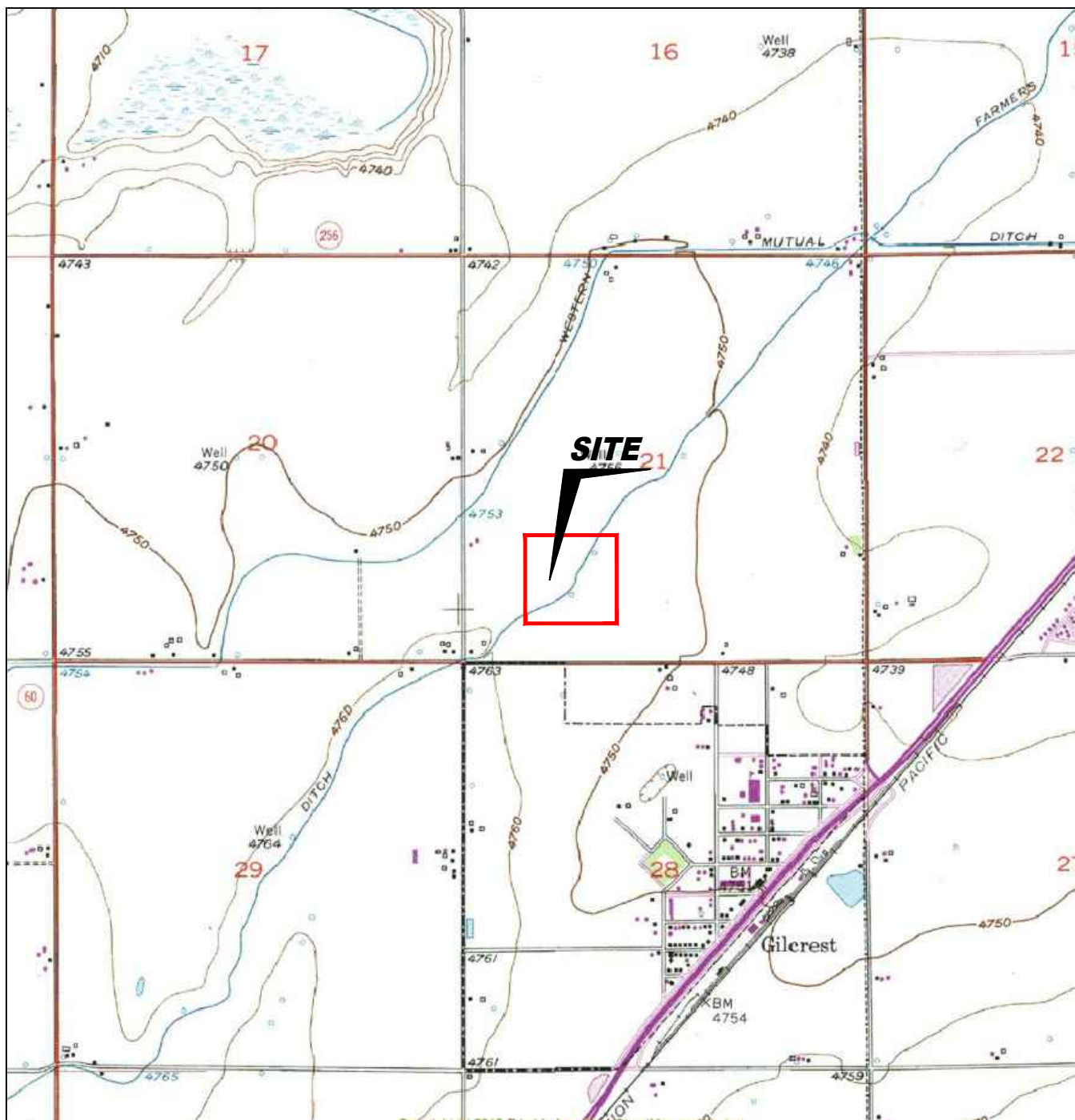
Bold faced values exceed the ECMC Table 915-1 concentrations

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

\* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed



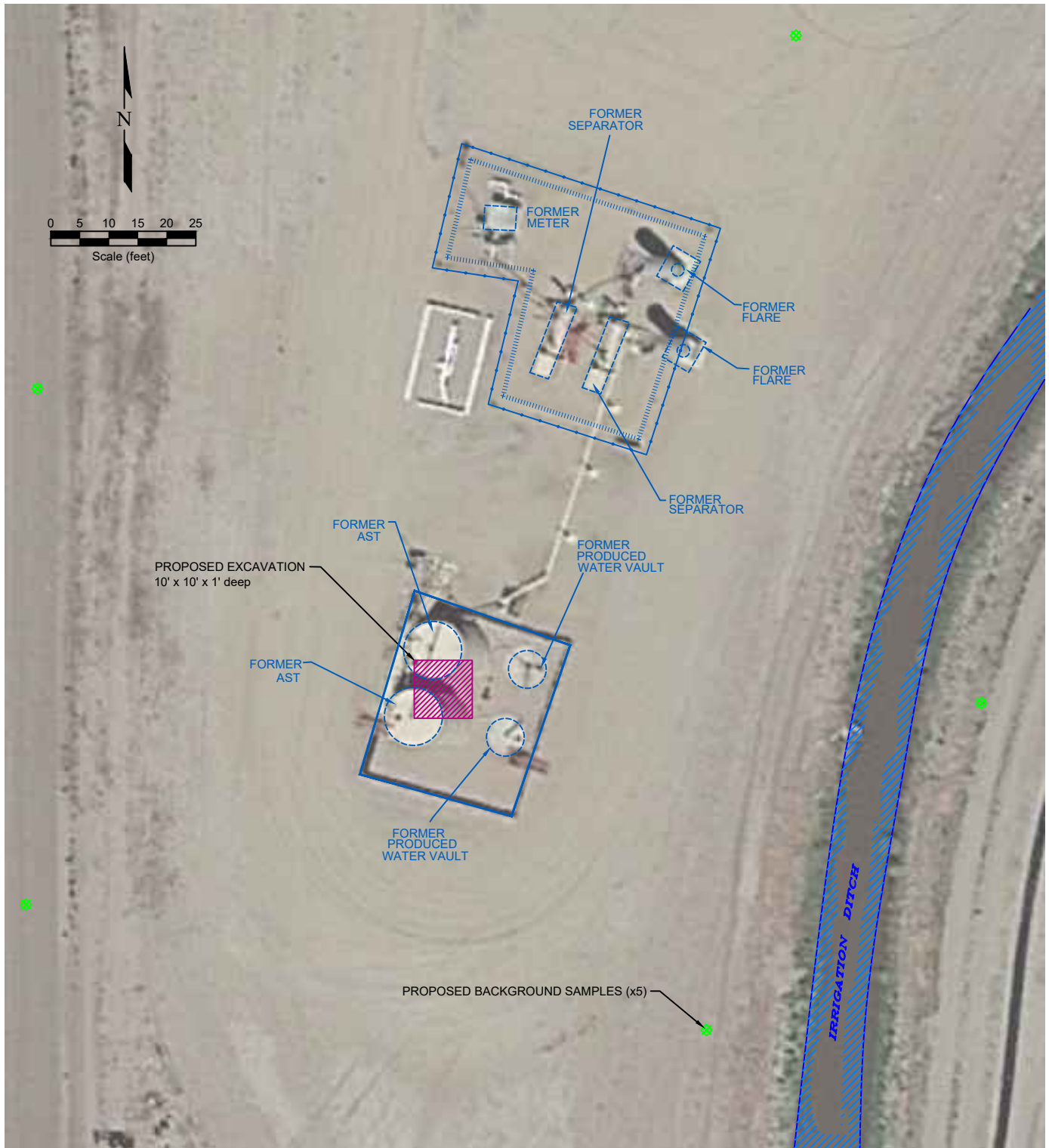
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**  
**NOBLE ENERGY INC ~ KISSLER K-64N66W 21SESW**

SESW Sec. 21, T4N, R66W, 6th PM  
 Weld County, Colorado  
 40.293099°, -104.786841°

Project # <b>C024-001</b>	API #	Facility # <b>310776</b>
Date <b>6/7/24</b>	Remediation # <b>25456</b>	Filename <b>24001T</b>





#### LEGEND

	PROPOSED EXCAVATION		ABOVE GROUND STORAGE TANK		FORMER FACILITY		FLOWLINE
	PROPOSED BACKGROUND SAMPLE LOCATIONS		ABOVE GROUND		BUILDING		FENCE LINE
					CONTAINMENT BERM		CONTAINMENT WALL

Figure 2

### PROPOSED EXCAVATION AND BACKGROUND SAMPLES MAP NOBLE ENERGY INC ~ KISSLER K-64N66W 21SESW

SESW Sec. 21, T4N, R66W, 6th PM  
Weld County, Colorado  
40.293099°, -104.786841°

Project No. <b>C024-001</b>	API #	Facility # <b>310776</b>
Date <b>6/7/24</b>	Remediation # <b>25456</b>	Filename <b>24001T</b>



# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 29, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

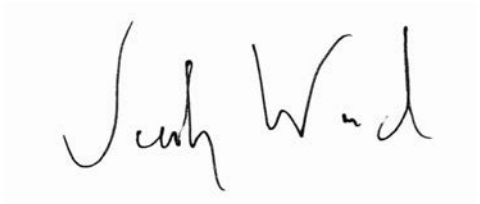
Wellington, CO 80549

RE: Noble - Kissler K-64N66W 21SESW

Work Order #2401008

Enclosed are the results of analyses for samples received by Summit Scientific on 01/02/24 17:14. 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 - Kissler K-64N66W 21SESW  Project Number: [none] Project Manager: Paul Henehan	<b>Reported:</b> 01/29/24 12:34
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01 0.5'	2401008-01	Soil	01/02/24 12:10	01/02/24 17:14
AST02 0.5'	2401008-02	Soil	01/02/24 12:15	01/02/24 17:14
PWV FLOOR01 5'	2401008-03	Soil	01/02/24 12:20	01/02/24 17:14
PWV FLOOR02 5'	2401008-04	Soil	01/02/24 12:25	01/02/24 17:14
SEP01 DL3'	2401008-05	Soil	01/02/24 12:30	01/02/24 17:14
SEP02 DL3'	2401008-06	Soil	01/02/24 12:35	01/02/24 17:14

Summit Scientific

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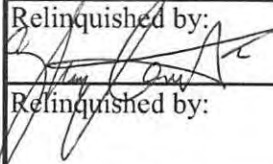
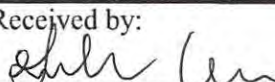


4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2401008	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Kissler K-64NW6W 2ISESW
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Kissler K-64NW6W 2ISESW	PO/Billing Codes: UWRWE-A2557-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD	
1	AST01 0.5'	11/2/23	12:10	2			X			X			X	X	X	X	X				
2	AST02 0.5'		12:15				X			X			X	X	X	X	X				
3	DWV FLOOR01 5'		12:20				X			X			X	X	X	X	X				
4	DWV FLOOR02 5'		12:25				X			X			X	X	X	X	X				
5	SEPO1 DL 3'		12:30				X			X			X	X	X	X	X				
6	SEPO2 DL 3'		12:35				X			X			X	X	X	X	X				
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: 	Date/Time: 11/2/23 17:13	Received by: 	Date/Time: 11/2/24 17:14	TAT Business Days	Field DO	Notes:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC		
				1 Day	Field ORP		
				2 Days	Field pH		
				3 Days	Field Temp.		
				Standard	Field Turb.		
Temperature Upon Receipt: 11.70C		Corrected Temperature	IR gun #: 02	HNO3 lot #:			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2401008Client: Fremont Environment Client Project ID: Kisser 1C-641N66.W ZISESWShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 11.7°C Thermometer # 02

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

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

LAC  
Custodian Printed Name1/2/24 17:14  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST01 0.5'**  
**2401008-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	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: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0383	95.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0445	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.16	57.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST01 0.5'**  
**2401008-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0121</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0141</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0127</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.00869</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0110</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0165</b>	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0256</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0153	45.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:10**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST01 0.5'**  
**2401008-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.06	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Barium	71.1	0.400	"	"	"	"	"	"
Copper	6.59	0.400	"	"	"	"	"	"
Nickel	1.65	0.400	"	"	"	"	"	"
Silver	0.334	0.0200	"	"	"	"	"	"
Zinc	24.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.9	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	3.00	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0980	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHA0149	01/04/24	01/09/24	Calculation	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST01 0.5'**  
**2401008-01 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.210</b>	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.24</b>			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

Summit Scientific

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Fremont Environmental	Project: Noble - Kissler K-64N66W 21SESW	
PO Box 1289	Project Number: [none]	<b>Reported:</b>
Wellington CO, 80549	Project Manager: Paul Henchan	01/29/24 12:34

**AST01 0.5'**  
**2401008-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: 01/02/24 12:10									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	0.548	0.200	mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	
Lead	19.6	0.200	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/29/24 12:34

**AST02 0.5'**  
**2401008-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	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: **01/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.26	50.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST02 0.5'**  
**2401008-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.00904</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0114</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.00866</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.00679</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00771</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0110</b>	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0159</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0151	45.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:15**

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

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST02 0.5'**  
**2401008-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.13	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Barium	72.7	0.400	"	"	"	"	"	"
Copper	6.56	0.400	"	"	"	"	"	"
Nickel	1.75	0.400	"	"	"	"	"	"
Silver	0.299	0.0200	"	"	"	"	"	"
Zinc	24.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	133	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	30.2	0.0500	"	"	"	"	"	"	
Sodium	0.793	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0162	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHA0149	01/04/24	01/09/24	Calculation	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST02 0.5'**  
**2401008-02 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0528	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	6.93			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**AST02 0.5'**  
**2401008-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Cadmium</b>	<b>0.533</b>	0.200		mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	
<b>Lead</b>	<b>19.5</b>	0.200		"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/29/24 12:34

**PWV FLOOR01 5'**  
**2401008-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	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: **01/02/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.11	56.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**PWV FLOOR01 5'**  
**2401008-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	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: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:20**

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

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henahan

**Reported:**  
01/29/24 12:34

**PWV FLOOR01 5'**  
**2401008-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.04	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Cadmium	0.251	0.200	"	"	"	"	"	"
Copper	3.41	0.400	"	"	"	"	"	"
Lead	12.0	0.200	"	"	"	"	"	"
Nickel	2.15	0.400	"	"	"	"	"	"
Silver	0.129	0.0200	"	"	"	"	"	"
Zinc	12.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	122	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	6.43	0.0500	"	"	"	"	"	"	
Sodium	2.53	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0605	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHA0149	01/04/24	01/09/24	Calculation	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/29/24 12:34

**PWV FLOOR01 5'**  
**2401008-03 (Soil)**

**Summit Scientific**

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

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	<b>0.121</b>	0.0100	mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>pH</b>	<b>8.41</b>		pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**PWV FLOOR01 5'**  
**2401008-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	61.9	0.400		mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**PWV FLOOR02 5'**  
**2401008-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	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: **01/02/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0435	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.04	56.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**PWV FLOOR02 5'**  
**2401008-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0163</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0148</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.00761</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0154</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0233</b>	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0463</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0140	42.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Arsenic</b>	<b>0.932</b>	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**PWV FLOOR02 5'**  
**2401008-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Barium	68.8	0.400	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Cadmium	0.341	0.200	"	"	"	"	"	"
Copper	4.52	0.400	"	"	"	"	"	"
Nickel	1.81	0.400	"	"	"	"	"	"
Silver	0.181	0.0200	"	"	"	"	"	"
Zinc	18.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	115	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	8.77	0.0500	"	"	"	"	"	"	
Sodium	1.58	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0382	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BHA0149	01/04/24	01/09/24	Calculation	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**PWV FLOOR02 5'**  
**2401008-04 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.126</b>	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.36</b>			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**PWV FLOOR02 5'**  
**2401008-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	0.00825	0.00500	mg/kg	1	BHA0716	01/03/24	01/22/24	EPA 8270D SIM	I-04

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.9 %	40-150		"	"	"	"	I-04
Surrogate: Fluoranthene-d10	0.0268	80.4 %	40-150		"	"	"	"	I-04

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	12.2	0.200	mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/29/24 12:34

**SEP01 DL3'**  
**2401008-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	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: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.70	61.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**SEP01 DL3'**  
**2401008-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	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: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0148	44.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/29/24 12:34

**SEP01 DL3'**  
**2401008-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.724	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Barium	72.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.12	0.400	"	"	"	"	"	"
Lead	8.36	0.200	"	"	"	"	"	"
Nickel	1.96	0.400	"	"	"	"	"	"
Silver	0.0613	0.0200	"	"	"	"	"	"
Zinc	7.82	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.1	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	5.80	0.0500	"	"	"	"	"	"	
Sodium	6.14	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.300	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henahan

**Reported:**  
01/29/24 12:34

**SEP01 DL3'**  
**2401008-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	92.0			%	1	BHA0149	01/04/24	01/09/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.140	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.47			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**SEP02 DL3'**  
**2401008-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	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: **01/02/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.79	54.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**SEP02 DL3'**  
**2401008-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	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: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:35**

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

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**SEP02 DL3'**  
**2401008-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.01	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Barium	81.8	0.400	"	"	"	"	"	"
Copper	4.90	0.400	"	"	"	"	"	"
Nickel	1.75	0.400	"	"	"	"	"	"
Silver	0.202	0.0200	"	"	"	"	"	"
Zinc	16.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.1	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	6.89	0.0500	"	"	"	"	"	"	
Sodium	3.26	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.138	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BHA0149	01/04/24	01/09/24	Calculation	

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Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**SEP02 DL3'**  
**2401008-06 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.242</b>	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.86</b>			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**SEP02 DL3'**  
**2401008-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Cadmium</b>	<b>0.305</b>	0.200		mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	
<b>Lead</b>	<b>13.2</b>	0.200		"	"	"	"	"	"	

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

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01/29/24 12:34

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

### Summit Scientific

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

#### Batch BHA0120 - EPA 5030 Soil MS

##### Blank (BHA0120-BLK1)

Prepared & Analyzed: 01/04/24

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	0.0375		"	0.0400		93.8	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150			

##### LCS (BHA0120-BS1)

Prepared & Analyzed: 01/04/24

Benzene	0.0899	0.0020	mg/kg	0.100		89.9	70-130			
Toluene	0.119	0.0050	"	0.100		119	70-130			
Ethylbenzene	0.114	0.0050	"	0.100		114	70-130			
m,p-Xylene	0.230	0.010	"	0.200		115	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.0877	0.0038	"	0.100		87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0330		"	0.0400		82.5	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

##### Matrix Spike (BHA0120-MS1)

Source: 2401006-01

Prepared & Analyzed: 01/04/24

Benzene	0.0905	0.0020	mg/kg	0.100	ND	90.5	70-130			
Toluene	0.117	0.0050	"	0.100	ND	117	70-130			
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130			
m,p-Xylene	0.235	0.010	"	0.200	ND	117	70-130			
o-Xylene	0.112	0.0050	"	0.100	ND	112	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
Naphthalene	0.0880	0.0038	"	0.100	ND	88.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		92.9	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

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01/29/24 12:34

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

### Summit Scientific

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

#### Batch BHA0120 - EPA 5030 Soil MS

Matrix Spike Dup (BHA0120-MSD1)	Source: 2401006-01			Prepared: 01/04/24 Analyzed: 01/05/24						
Benzene	0.0860	0.0020	mg/kg	0.100	ND	86.0	70-130	5.13	30	
Toluene	0.0873	0.0050	"	0.100	ND	87.3	70-130	29.1	30	
Ethylbenzene	0.0785	0.0050	"	0.100	ND	78.5	70-130	39.2	30	QR-02
m,p-Xylene	0.148	0.010	"	0.200	ND	73.8	70-130	45.6	30	QR-02
o-Xylene	0.0749	0.0050	"	0.100	ND	74.9	70-130	40.1	30	QR-02
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130	17.0	30	
1,3,5-Trimethylbenzene	0.0855	0.0050	"	0.100	ND	85.5	70-130	27.0	30	
Naphthalene	0.0877	0.0038	"	0.100	ND	87.7	70-130	0.410	30	
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.4	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**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 BHA0122 - EPA 3550A**

**Blank (BHA0122-BLK1)**

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.5		"	12.5		91.8	30-150			

**LCS (BHA0122-BS1)**

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	491	50	mg/kg	500		98.2	70-130			
Surrogate: o-Terphenyl	10.1		"	12.5		81.1	30-150			

**Matrix Spike (BHA0122-MS1)**

Source: 2401006-01

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	471	50	mg/kg	500	19.4	90.2	70-130			
Surrogate: o-Terphenyl	8.52		"	12.5		68.1	30-150			

**Matrix Spike Dup (BHA0122-MSD1)**

Source: 2401006-01

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	514	50	mg/kg	500	19.4	99.0	70-130	8.88	20	
Surrogate: o-Terphenyl	7.80		"	12.5		62.4	30-150			

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

## 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 BHA0094 - EPA 5030 Soil MS

##### Blank (BHA0094-BLK1)

Prepared: 01/03/24 Analyzed: 01/04/24

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	0.0280		"	0.0333		83.9	40-150			
Surrogate: Fluoranthene-d10	0.0222		"	0.0333		66.6	40-150			

##### LCS (BHA0094-BS1)

Prepared: 01/03/24 Analyzed: 01/04/24

Acenaphthene	0.0219	0.00500	mg/kg	0.0333		65.6	31-137			
Anthracene	0.0217	0.00500	"	0.0333		65.0	30-120			
Benzo (a) anthracene	0.0211	0.00500	"	0.0333		63.2	30-120			
Benzo (a) pyrene	0.0228	0.00500	"	0.0333		68.3	30-120			
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333		60.1	30-120			
Benzo (k) fluoranthene	0.0187	0.00500	"	0.0333		56.1	30-120			
Chrysene	0.0207	0.00500	"	0.0333		62.1	30-120			
Dibenz (a,h) anthracene	0.0223	0.00500	"	0.0333		67.0	30-120			
Fluoranthene	0.0200	0.00500	"	0.0333		60.1	30-120			
Fluorene	0.0226	0.00500	"	0.0333		67.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0156	0.00500	"	0.0333		46.8	30-120			
Pyrene	0.0216	0.00500	"	0.0333		64.8	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.9	35-142			
2-Methylnaphthalene	0.0210	0.00500	"	0.0333		63.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0150		"	0.0333		44.9	40-150			
Surrogate: Fluoranthene-d10	0.0201		"	0.0333		60.4	40-150			

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Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

## 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 BHA0094 - EPA 5030 Soil MS

##### Matrix Spike (BHA0094-MS1)

Source: 2312559-01

Prepared: 01/03/24 Analyzed: 01/04/24

Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	31-137				
Anthracene	0.0146	0.00500	"	0.0333	ND	43.9	30-120				
Benzo (a) anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120				
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.4	30-120				
Benzo (b) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.7	30-120				
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.8	30-120				
Chrysene	0.0145	0.00500	"	0.0333	ND	43.4	30-120				
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.2	30-120				
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120				
Fluorene	0.0161	0.00500	"	0.0333	ND	48.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0215	0.00500	"	0.0333	ND	64.4	30-120				
Pyrene	0.0137	0.00500	"	0.0333	ND	41.1	35-142				
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130				
2-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.4	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.8	40-150				
Surrogate: Fluoranthene-d10	0.0136		"	0.0333		40.8	40-150				

##### Matrix Spike Dup (BHA0094-MSD1)

Source: 2312559-01

Prepared: 01/03/24 Analyzed: 01/04/24

Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.7	31-137	22.0	30		
Anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	31.8	30		QR-02
Benzo (a) anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120	4.74	30		
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	11.9	30		
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.7	30-120	2.44	30		
Benzo (k) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	12.5	30		
Chrysene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	18.3	30		
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	0.0424	30		
Fluoranthene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	1.96	30		
Fluorene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	7.48	30		
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	36.5	30		QR-02
Pyrene	0.0172	0.00500	"	0.0333	ND	51.5	35-142	22.5	30		
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.1	15-130	3.60	50		
2-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.0	15-130	22.5	50		
Surrogate: 2-Methylnaphthalene-d10	0.0155		"	0.0333		46.5	40-150				
Surrogate: Fluoranthene-d10	0.0149		"	0.0333		44.7	40-150				

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

## 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 BHA0716 - EPA 5030 Soil MS

##### Blank (BHA0716-BLK1)

Prepared & Analyzed: 01/22/24

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	0.0192	"	0.0333	57.5	40-150
Surrogate: Fluoranthene-d10	0.0334	"	0.0333	100	40-150

##### LCS (BHA0716-BS1)

Prepared & Analyzed: 01/22/24

Acenaphthene	0.0360	0.00500	mg/kg	0.0333	108	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0345	0.00500	"	0.0333	103	30-120
Benzo (a) pyrene	0.0332	0.00500	"	0.0333	99.7	30-120
Benzo (b) fluoranthene	0.0350	0.00500	"	0.0333	105	30-120
Benzo (k) fluoranthene	0.0374	0.00500	"	0.0333	112	30-120
Chrysene	0.0394	0.00500	"	0.0333	118	30-120
Dibenz (a,h) anthracene	0.0267	0.00500	"	0.0333	80.1	30-120
Fluoranthene	0.0369	0.00500	"	0.0333	111	30-120
Fluorene	0.0386	0.00500	"	0.0333	116	30-120
Indeno (1,2,3-cd) pyrene	0.0262	0.00500	"	0.0333	78.7	30-120
Pyrene	0.0376	0.00500	"	0.0333	113	35-142
1-Methylnaphthalene	0.0312	0.00500	"	0.0333	93.7	35-142
2-Methylnaphthalene	0.0380	0.00500	"	0.0333	114	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0320	"	0.0333	96.0	40-150
Surrogate: Fluoranthene-d10	0.0377	"	0.0333	113	40-150

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

## 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 BHA0716 - EPA 5030 Soil MS

##### Matrix Spike (BHA0716-MS1)

Source: 2401332-01

Prepared & Analyzed: 01/22/24

Acenaphthene	0.0187	0.00500	mg/kg	0.0333	ND	56.1	31-137			
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120			
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120			
Benzo (a) pyrene	0.0188	0.00500	"	0.0333	ND	56.5	30-120			
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Benzo (k) fluoranthene	0.0203	0.00500	"	0.0333	ND	60.9	30-120			
Chrysene	0.0222	0.00500	"	0.0333	ND	66.5	30-120			
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	48.0	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	30-120			
Fluorene	0.0221	0.00500	"	0.0333	ND	66.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Pyrene	0.0219	0.00500	"	0.0333	ND	65.7	35-142			
1-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.5	15-130			
2-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0141		"	0.0333		42.4	40-150			
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		65.9	40-150			

##### Matrix Spike Dup (BHA0716-MSD1)

Source: 2401332-01

Prepared & Analyzed: 01/22/24

Acenaphthene	0.0154	0.00500	mg/kg	0.0333	ND	46.1	31-137	19.5	30	
Anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120	34.8	30	QR-02
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	34.9	30	QR-02
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	20.4	30	
Benzo (b) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	27.6	30	
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	34.4	30	QR-02
Chrysene	0.0156	0.00500	"	0.0333	ND	46.8	30-120	34.7	30	QR-02
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	2.19	30	
Fluoranthene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	32.6	30	QR-02
Fluorene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	33.0	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	11.3	30	
Pyrene	0.0158	0.00500	"	0.0333	ND	47.5	35-142	32.3	30	QR-02
1-Methylnaphthalene	0.0135	0.00500	"	0.0333	ND	40.6	15-130	7.08	50	
2-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.8	15-130	45.0	50	
Surrogate: 2-Methylnaphthalene-d10	0.0161		"	0.0333		48.3	40-150			
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.2	40-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**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 BHA0242 - EPA 3050B**

**Blank (BHA0242-BLK1)**

Prepared: 01/08/24 Analyzed: 01/12/24

Boron ND 2.00 mg/L

**LCS (BHA0242-BS1)**

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 5.38 2.00 mg/L 5.00 108 80-120

**Duplicate (BHA0242-DUP1)**

**Source: 2401007-01**

Prepared: 01/08/24 Analyzed: 01/12/24

Boron ND 2.00 mg/L 0.0150 200 20 QR-01

**Matrix Spike (BHA0242-MS1)**

**Source: 2401007-01**

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 4.97 2.00 mg/L 5.00 0.0150 99.1 75-125

**Matrix Spike Dup (BHA0242-MSD1)**

**Source: 2401007-01**

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 5.71 2.00 mg/L 5.00 0.0150 114 75-125 14.0 25

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**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 BHA0112 - EPA 3050B**

**Blank (BHA0112-BLK1)**

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

**LCS (BHA0112-BS1)**

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	39.7	0.200	mg/kg wet	40.0	99.3	80-120
Barium	38.6	0.400	"	40.0	96.5	80-120
Cadmium	1.93	0.200	"	2.00	96.3	80-120
Copper	41.5	0.400	"	40.0	104	80-120
Lead	19.5	0.200	"	20.0	97.6	80-120
Nickel	40.0	0.400	"	40.0	100	80-120
Silver	1.95	0.0200	"	2.00	97.4	80-120
Zinc	40.3	0.400	"	40.0	101	80-120
Selenium	4.65	0.260	"	4.00	116	80-120

**Duplicate (BHA0112-DUP1)**

Source: 2310539-01

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	1.47	0.200	mg/kg wet	1.38	6.06	20
Barium	116	0.400	"	103	11.9	20
Cadmium	0.131	0.200	"	0.128	2.47	20
Copper	2.25	0.400	"	2.14	5.15	20
Lead	6.00	0.200	"	5.59	7.10	20
Nickel	2.59	0.400	"	2.42	6.67	20
Silver	0.0272	0.0200	"	0.0268	1.48	20
Zinc	8.80	0.400	"	8.37	5.02	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

### 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 BHA0112 - EPA 3050B

Matrix Spike (BHA0112-MS1)			Source: 2310539-01		Prepared: 01/04/24 Analyzed: 01/09/24						
Arsenic	11.8	0.200	mg/kg wet	40.0	1.38	26.1	75-125				QM-07
Barium	147	0.400	"	40.0	103	109	75-125				
Cadmium	2.03	0.200	"	2.00	0.128	95.0	75-125				
Copper	13.6	0.400	"	40.0	2.14	28.7	75-125				QM-07
Lead	23.0	0.200	"	20.0	5.59	86.8	75-125				
Nickel	13.9	0.400	"	40.0	2.42	28.6	75-125				QM-07
Silver	1.88	0.0200	"	2.00	0.0268	92.6	75-125				
Zinc	19.2	0.400	"	40.0	8.37	27.2	75-125				QM-07
Selenium	3.78	0.260	"	4.00	ND	94.4	75-125				

Matrix Spike Dup (BHA0112-MSD1)			Source: 2310539-01		Prepared: 01/04/24 Analyzed: 01/09/24						
Arsenic	11.9	0.200	mg/kg wet	40.0	1.38	26.3	75-125	0.819	25		QM-07
Barium	145	0.400	"	40.0	103	106	75-125	0.865	25		
Cadmium	2.03	0.200	"	2.00	0.128	95.2	75-125	0.197	25		
Copper	13.6	0.400	"	40.0	2.14	28.7	75-125	0.103	25		QM-07
Lead	22.9	0.200	"	20.0	5.59	86.6	75-125	0.234	25		
Nickel	13.9	0.400	"	40.0	2.42	28.7	75-125	0.320	25		QM-07
Silver	1.87	0.0200	"	2.00	0.0268	92.1	75-125	0.576	25		
Zinc	19.3	0.400	"	40.0	8.37	27.3	75-125	0.282	25		QM-07
Selenium	3.79	0.260	"	4.00	ND	94.6	75-125	0.264	25		

#### Batch BHA0823 - EPA 3050B

Blank (BHA0823-BLK1)			Prepared: 01/24/24 Analyzed: 01/25/24								
Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

### 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 BHA0823 - EPA 3050B

##### LCS (BHA0823-BS1)

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.3	0.200	mg/kg wet	40.0		83.1	80-120			
Barium	33.0	0.400	"	40.0		82.5	80-120			
Cadmium	1.64	0.200	"	2.00		82.0	80-120			
Copper	34.6	0.400	"	40.0		86.4	80-120			
Lead	16.3	0.200	"	20.0		81.3	80-120			
Nickel	34.3	0.400	"	40.0		85.8	80-120			
Silver	1.67	0.0200	"	2.00		83.4	80-120			
Zinc	34.7	0.400	"	40.0		86.7	80-120			
Selenium	3.41	0.260	"	4.00		85.2	80-120			

##### Duplicate (BHA0823-DUP1)

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	0.869	0.200	mg/kg dry		0.846			2.67	20	
Barium	17.5	0.400	"		19.4			10.1	20	
Cadmium	0.0753	0.200	"		0.0717			5.01	20	
Copper	1.66	0.400	"		1.50			9.95	20	
Lead	2.48	0.200	"		2.48			0.00	20	
Nickel	1.47	0.400	"		1.41			4.43	20	
Silver	0.00614	0.0200	"		0.00778			23.5	20	QR-01
Zinc	6.62	0.400	"		6.70			1.13	20	
Selenium	ND	0.260	"		ND				20	

##### Matrix Spike (BHA0823-MS1)

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	79.1	75-125			
Barium	50.8	0.400	"	40.9	19.4	76.8	75-125			
Cadmium	1.64	0.200	"	2.05	0.0717	76.7	75-125			
Copper	30.5	0.400	"	40.9	1.50	70.8	75-125			QM-05
Lead	18.3	0.200	"	20.5	2.48	77.3	75-125			
Nickel	30.1	0.400	"	40.9	1.41	70.1	75-125			QM-05
Silver	1.59	0.0200	"	2.05	0.00778	77.1	75-125			
Zinc	36.3	0.400	"	40.9	6.70	72.2	75-125			QM-05
Selenium	3.07	0.260	"	4.09	ND	75.1	75-125			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**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 BHA0823 - EPA 3050B**

**Matrix Spike Dup (BHA0823-MSD1)**

**Source: 2401364-01**

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	78.9	75-125	0.187	25	
Barium	50.1	0.400	"	40.9	19.4	75.1	75-125	1.42	25	
Cadmium	1.64	0.200	"	2.05	0.0717	76.5	75-125	0.250	25	
Copper	30.2	0.400	"	40.9	1.50	70.1	75-125	0.912	25	QM-05
Lead	18.2	0.200	"	20.5	2.48	76.6	75-125	0.723	25	
Nickel	30.1	0.400	"	40.9	1.41	70.0	75-125	0.132	25	QM-05
Silver	1.57	0.0200	"	2.05	0.00778	76.5	75-125	0.829	25	
Zinc	35.4	0.400	"	40.9	6.70	70.1	75-125	2.35	25	QM-05
Selenium	3.16	0.260	"	4.09	ND	77.2	75-125	2.73	25	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/29/24 12:34

**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 BHA0128 - 3060A Mod**

**Blank (BHA0128-BLK1)**

Prepared & Analyzed: 01/04/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHA0128-BS1)**

Prepared & Analyzed: 01/04/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

**Duplicate (BHA0128-DUP1)**

**Source: 2401008-01**

Prepared & Analyzed: 01/04/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHA0128-MS1)**

**Source: 2401008-01**

Prepared & Analyzed: 01/04/24

Chromium, Hexavalent 26.4 0.30 mg/kg dry 26.5 ND 99.6 75-125

**Matrix Spike Dup (BHA0128-MSD1)**

**Source: 2401008-01**

Prepared & Analyzed: 01/04/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.5 ND 97.4 75-125 2.23 20

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**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 BHA0292 - General Preparation**

**Blank (BHA0292-BLK1)**

Prepared: 01/09/24 Analyzed: 01/16/24

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BHA0292-BS1)**

Prepared: 01/09/24 Analyzed: 01/16/24

Calcium	5.52	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.90	0.0500	"	5.00	118	70-130
Sodium	6.15	0.0500	"	5.00	123	70-130

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kissler K-64N66W 21SESW Project Number: [none] Project Manager: Paul Henchan	Reported: 01/29/24 12:34
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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 BHA0149 - General Preparation

Duplicate (BHA0149-DUP1)		Source: 2312563-01			Prepared: 01/04/24 Analyzed: 01/09/24					
% Solids	85.0		%		83.9			1.35	20	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BHA0360 - General Preparation**

**Blank (BHA0360-BLK1)**

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHA0360-BS1)**

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BHA0360-DUP1)**

**Source: 2401007-01**

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) 0.0781 0.0100 mmhos/cm 0.0782 0.0896 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

**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 BHA0359 - General Preparation**

**LCS (BHA0359-BS1)**

Prepared & Analyzed: 01/10/24

pH	9.17		pH Units	9.18		99.9	95-105		
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**Duplicate (BHA0359-DUP1)**

**Source: 2401007-01**

Prepared & Analyzed: 01/10/24

pH	6.86		pH Units		7.18			4.56	20
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**Batch BHA0703 - General Preparation**

**LCS (BHA0703-BS1)**

Prepared & Analyzed: 01/22/24

pH	9.18		pH Units	9.18		100	95-105		
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**Duplicate (BHA0703-DUP1)**

**Source: 2401008-03**

Prepared & Analyzed: 01/22/24

pH	8.36		pH Units		8.44			0.952	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/29/24 12:34

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
I-04	Sample was analyzed out of recommended holding time per clients request.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference