

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
KEHN USX AA01-16, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-299

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**		
FL01 3'	11/20/2023	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL05 3'	11/20/2023	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	0.0182	<0.0038	<0.50	<50	<50
FL06 3'	11/20/2023	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.00500	<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.
KEHN USX AA01-16, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-299

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
FL01 3'	11/20/2023	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
FL05 3'	11/20/2023	3'	0.0117	0.365	0.367	0.0220	0.322	0.0121	0.328	<0.00500	0.0918	0.0158	0.0100	0.0740	<0.00500	<0.00500
FL06 3'	11/20/2023	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.
KEHN USX AA01-16, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-299

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration			8.72	-	-	-
FL01 3'	11/20/2023	3'	8.40	0.228	0.411	<2.00
FL05 3'	11/20/2023	3'	8.50	0.252	0.466	<2.00
FL06 3'	11/20/2023	3'	9.02	0.0796	0.0109	<2.00
BKG 3'	11/20/2023	3'	7.14	0.0686	0.0186	<2.00
BKG01 3'	11/10/2023	3	8.72	0.67	0.095	<2.00
BKG02 3'	11/10/2023	3	8.65	0.135	0.0338	<2.00
BKG03 3'	11/10/2023	3	8.71	0.205	0.397	<2.00
BKG04 3'	11/10/2023	3	8.62	0.14	0.0504	<2.00
BKG05 3'	11/10/2023	3	8.59	0.144	0.0359	<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)

Orange highlighted cells exceed the maximum background concentration

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
KEHN USX AA01-16, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-299

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
125% Max. Background Concentration			5.6	428.8	-	-	-	-	-	0.325	-	-
FL01 3'	11/20/2023	3	1.08	80.6	0.270	<0.30	3.88	13.3	2.61	0.443	0.0354	13.6
FL05 3'	11/20/2023	3	0.685	96.0	<0.200	<0.30	1.50	4.77	1.75	<0.260	0.0231	6.67
FL06 3'	11/20/2023	3	0.992	57.7	<0.200	<0.30	1.04	3.58	1.22	<0.260	<0.0200	4.67
BKG 3'	11/20/2023	3	0.913	26.6	<0.200	<0.30	1.47	3.39	1.43	<0.260	<0.0200	5.93
BKG01 3'	11/10/2023	3	2	59	<0.200	<0.30	2.59	4.13	2.9	<0.260	<0.0200	11
BKG02 3'	11/10/2023	3	1.46	37.9	<0.200	<0.30	2.35	3.92	2.32	<0.260	<0.0200	10.4
BKG03 3'	11/10/2023	3	4.46	343	0.34	<0.30	10.8	20.5	7.36	<0.260	0.10	24.4
BKG04 3'	11/10/2023	3	1.71	44.8	<0.200	<0.30	2.51	4.52	2.6	<0.260	<0.0200	11.2
BKG05 3'	11/10/2023	3	1.68	45.9	<0.200	<0.30	2.63	5.23	2.54	<0.260	<0.0200	11.8

Bold faced values exceed the ECMC Table 915-1 concentrations

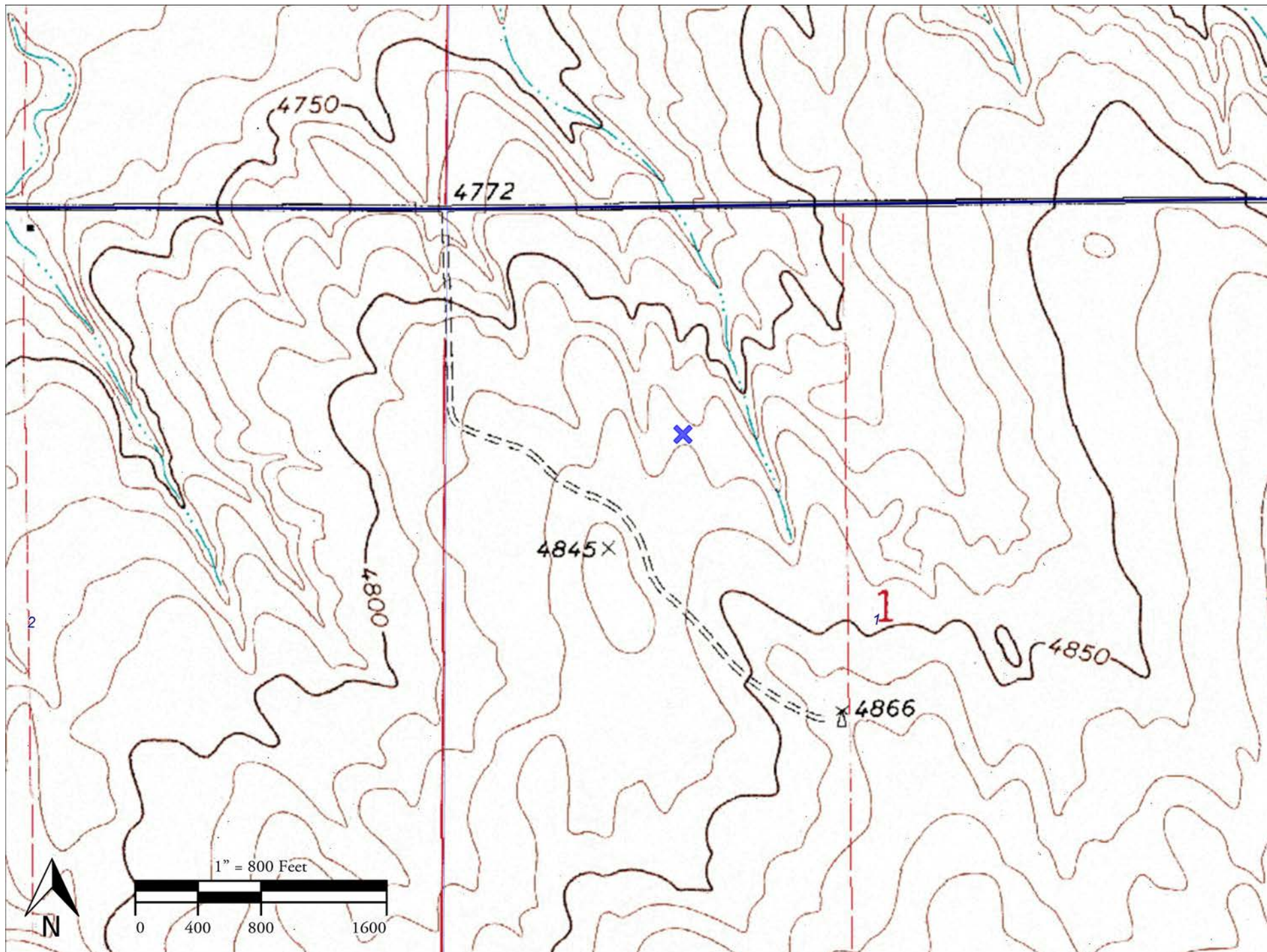
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

Orange highlighted cells exceed the 125% of the maximum background concentration

NA - Not analyzed



Kehn USX AA06-16

API #: 05- 123-27198, Remediation # 30992
SESE Sec. 1, T6N, R63W
40.5187833, -104.3889304
Fremont No. C023-299

Legend

- Background Sample Locations
- Impacted Soil Location



Photo Log



Description:

Kehn USX AA01-06 FL01 bellhole, no staining or odor

Photo Log



Description:

Kehn USX AA01-06 FL02 bellhole prior to flowline removal, no staining or odor

Photo Log



Description:

Kehn USX AA01-06 FL03 bellhole, no staining or odor

Photo Log



Description:

Kehn USX AA01-06 FL04 bellhole, no staining or odor

Photo Log



Description:

Kehn USX AA01-06 FL05 bellhole, no staining or odor

Photo Log



Description:

Kehn USX AA01-06 FL06 bellhole, no staining or odor

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 08, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

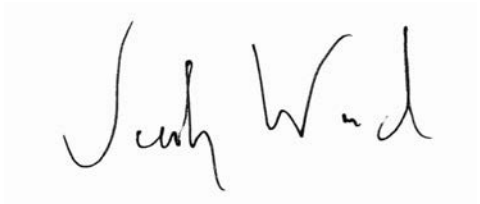
Wellington, CO 80549

RE: Noble - Kehn USX AA-01-16

Work Order #2311430

Enclosed are the results of analyses for samples received by Summit Scientific on 11/20/23 16:30. 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 - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3'	2311430-01	Soil	11/20/23 14:00	11/20/23 16:30
FL05 3'	2311430-02	Soil	11/20/23 13:55	11/20/23 16:30
FL06 3'	2311430-03	Soil	11/20/23 13:50	11/20/23 16:30
BKG 3'	2311430-04	Soil	11/20/23 13:40	11/20/23 16:30

Summit Scientific

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



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

Lab ID

Page 1 of 1

2311430

				Send Data To:				Send Invoice To:											
Client: Fremont Environmental				Project Manager: Paul Henchan				Company: <u>Noble</u>											
Address:				E-Mail: Fremont Distribution List				Project Name/Location:											
City/State/Zip:								AFE#:											
Phone: 303-261-6246				Project Name: <u>Kehn USX AAOI-16</u>				PO/Billing Codes: <u>UNRWE-4344-ABN</u>											
Sampler Name: Stanley Gilbert				Project Number:				Contact: <u>Mike Montoya</u>											
				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	FL01 3'	11/20/23	14:00	2			X			X			X	X	X	X	X		
2	FL05 3'	I	13:55	1			X			X			X	X	X	X	X		
3	FL06 3'	I	13:50	1			X			X			X	X	X	X	X		
4	BH6 3'	I	13:40	1			X			X						X	X		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/20/23 16:10</u>	Received by: <u>Summit North</u>	Date/Time: <u>11/20/23 16:10</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>52</u>	Date/Time: <u>11/20/23 16:50</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/20/23 16:50</u>	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>11.9</u>	Corrected Temperature: <u>9</u>	IR gun #:	<u>1</u>	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2311430Client: FremontClient Project ID: Kehn USX AA01-16Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐

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

Air ☐Soil/Solid ☒Water ☐Other ☐

Temp (°C)

11.9

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on JCE
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time

AS

11/20/23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL01 3'
2311430-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0910	11/22/23	11/23/23	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: **11/20/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0534	134 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0911	11/22/23	11/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.6	93.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL01 3'
2311430-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0926	11/27/23	11/27/23	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: **11/20/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	44.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1060	11/29/23	11/30/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/23 14:00**

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

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL01 3'
2311430-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.08	0.200	mg/kg dry	1	BGL0025	12/01/23	12/05/23	EPA 6020B
Barium	80.6	0.400	"	"	"	"	"	"
Cadmium	0.270	0.200	"	"	"	"	"	"
Copper	3.88	0.400	"	"	"	"	"	"
Lead	13.3	0.200	"	"	"	"	"	"
Nickel	2.61	0.400	"	"	"	"	"	"
Silver	0.0354	0.0200	"	"	"	"	"	"
Zinc	13.6	0.400	"	"	"	"	"	"
Selenium	0.443	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0982	11/27/23	11/27/23	EPA 7196A	

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

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.6	0.0500	mg/L dry	1	BGL0169	12/05/23	12/08/23	EPA 6020B	
Magnesium	8.97	0.0500	"	"	"	"	"	"	
Sodium	11.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.411	0.00100	units	1	BGL0312	12/08/23	12/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/23 14:00**

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

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL01 3'
2311430-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.0	%	1	BGK1033	11/28/23	11/28/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.228	0.0100	mmhos/cm	1	BGL0194	12/06/23	12/06/23	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL01 3'
2311430-01 (Soil)

Summit Scientific

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

Date Sampled: **11/20/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.40			pH Units	1	BGL0837	12/06/23	12/21/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL05 3'
2311430-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0910	11/22/23	11/23/23	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: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0536	134 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0911	11/22/23	11/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.2	114 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL05 3'
2311430-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK1060	11/29/23	11/30/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.685	0.200	mg/kg dry	1	BGL0025	12/01/23	12/05/23	EPA 6020B	
Barium	96.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.50	0.400	"	"	"	"	"	"	
Lead	4.77	0.200	"	"	"	"	"	"	
Nickel	1.75	0.400	"	"	"	"	"	"	
Silver	0.0231	0.0200	"	"	"	"	"	"	
Zinc	6.67	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0982	11/27/23	11/27/23	EPA 7196A	

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

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	38.9	0.0500	mg/L dry	1	BGL0169	12/05/23	12/08/23	EPA 6020B	
Magnesium	6.35	0.0500	"	"	"	"	"	"	
Sodium	11.9	0.0500	"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL05 3'
2311430-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.466	0.00100	units	1	BGL0312	12/08/23	12/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BGK1033	11/28/23	11/28/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.252	0.0100	mmhos/cm	1	BGL0194	12/06/23	12/06/23	EPA 120.1	

Summit Scientific

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Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL05 3'
2311430-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0117	0.00500	mg/kg	1	BGL0750	12/20/23	12/21/23	EPA 8270D SIM	I-04
Anthracene	0.0365	0.00500	"	"	"	"	"	"	I-04
Benzo (a) anthracene	0.0367	0.00500	"	"	"	"	"	"	I-04
Benzo (a) pyrene	0.0220	0.00500	"	"	"	"	"	"	I-04
Benzo (b) fluoranthene	0.0322	0.00500	"	"	"	"	"	"	I-04
Benzo (k) fluoranthene	0.0121	0.00500	"	"	"	"	"	"	I-04
Chrysene	0.0328	0.00500	"	"	"	"	"	"	I-04
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	I-04
Fluoranthene	0.0918	0.00500	"	"	"	"	"	"	I-04
Fluorene	0.0158	0.00500	"	"	"	"	"	"	I-04
Indeno (1,2,3-cd) pyrene	0.0100	0.00500	"	"	"	"	"	"	I-04
Pyrene	0.0740	0.00500	"	"	"	"	"	"	I-04
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	I-04
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	I-04

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0159	47.7 %	40-150		"	"	"	"	I-04
Surrogate: Fluoranthene-d10	0.0198	59.5 %	40-150		"	"	"	"	I-04

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

Date Sampled: **11/20/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BGL0837	12/06/23	12/21/23	EPA 9045D	

Summit Scientific

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Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

FL06 3'
2311430-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0910	11/22/23	11/23/23	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: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0326	81.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0532	133 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0911	11/22/23	11/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.3	122 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
01/08/24 09:50

FL06 3'
2311430-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGK0926	11/27/23	11/28/23	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: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0157	47.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK1060	11/29/23	11/30/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Reported:
01/08/24 09:50

FL06 3'
2311430-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.992	0.200	mg/kg dry	1	BGL0025	12/01/23	12/05/23	EPA 6020B
Barium	57.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.04	0.400	"	"	"	"	"	"
Lead	3.58	0.200	"	"	"	"	"	"
Nickel	1.22	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.67	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0982	11/27/23	11/27/23	EPA 7196A	

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

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	111	0.0500	mg/L dry	1	BGL0169	12/05/23	12/08/23	EPA 6020B	
Magnesium	5.88	0.0500	"	"	"	"	"	"	
Sodium	0.436	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0109	0.00100	units	1	BGL0312	12/08/23	12/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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01/08/24 09:50

FL06 3'
2311430-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	95.2			%	1	BGK1033	11/28/23	11/28/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0796	0.0100		mmhos/cm	1	BGL0194	12/06/23	12/06/23	EPA 120.1	

Summit Scientific

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Reported:
01/08/24 09:50

FL06 3'
2311430-03 (Soil)

Summit Scientific

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

Date Sampled: **11/20/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.02			pH Units	1	BGL0837	12/06/23	12/21/23	EPA 9045D	

Summit Scientific

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Project Manager: Paul Henchan

Reported:
01/08/24 09:50

BKG 3'
2311430-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK1060	11/29/23	11/30/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.913	0.200	mg/kg dry	1	BGL0025	12/01/23	12/05/23	EPA 6020B	
Barium	26.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.47	0.400	"	"	"	"	"	"	
Lead	3.39	0.200	"	"	"	"	"	"	
Nickel	1.43	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.93	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0982	11/27/23	11/27/23	EPA 7196A	

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

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	26.1	0.0500	mg/L dry	1	BGL0169	12/05/23	12/08/23	EPA 6020B	
Magnesium	6.16	0.0500	"	"	"	"	"	"	
Sodium	0.406	0.0500	"	"	"	"	"	"	

Summit Scientific

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Reported:
01/08/24 09:50

BKG 3'
2311430-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0186	0.00100	units	1	BGL0312	12/08/23	12/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.2		%	1	BGK1033	11/28/23	11/28/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0686	0.0100	mmhos/cm	1	BGL0194	12/06/23	12/06/23	EPA 120.1	

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

Date Sampled: **11/20/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.14		pH Units	1	BGL0193	12/06/23	12/06/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGK0910 - EPA 5030 Soil MS

Blank (BGK0910-BLK1)

Prepared: 11/22/23 Analyzed: 11/23/23

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	0.0380		"	0.0400		95.1	50-150			
Surrogate: Toluene-d8	0.0425		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

LCS (BGK0910-BS1)

Prepared: 11/22/23 Analyzed: 11/23/23

Benzene	0.0975	0.0020	mg/kg	0.100		97.5	70-130			
Toluene	0.0922	0.0050	"	0.100		92.2	70-130			
Ethylbenzene	0.0912	0.0050	"	0.100		91.2	70-130			
m,p-Xylene	0.180	0.010	"	0.200		89.9	70-130			
o-Xylene	0.0875	0.0050	"	0.100		87.5	70-130			
1,2,4-Trimethylbenzene	0.0814	0.0050	"	0.100		81.4	70-130			
1,3,5-Trimethylbenzene	0.0902	0.0050	"	0.100		90.2	70-130			
Naphthalene	0.0803	0.0038	"	0.100		80.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.3	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Matrix Spike (BGK0910-MS1)

Source: 2311430-01

Prepared: 11/22/23 Analyzed: 11/23/23

Benzene	0.0841	0.0020	mg/kg	0.100	ND	84.1	70-130			
Toluene	0.0525	0.0050	"	0.100	ND	52.5	70-130			QM-05
Ethylbenzene	0.0516	0.0050	"	0.100	ND	51.6	70-130			QM-05
m,p-Xylene	0.0936	0.010	"	0.200	ND	46.8	70-130			QM-05
o-Xylene	0.0414	0.0050	"	0.100	ND	41.4	70-130			QM-05
1,2,4-Trimethylbenzene	0.0342	0.0050	"	0.100	ND	34.2	70-130			QM-05
1,3,5-Trimethylbenzene	0.0462	0.0050	"	0.100	ND	46.2	70-130			QM-05
Naphthalene	0.0156	0.0038	"	0.100	ND	15.6	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.5	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGK0910 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0910-MSD1)	Source: 2311430-01			Prepared: 11/22/23 Analyzed: 11/23/23						
Benzene	0.0892	0.0020	mg/kg	0.100	ND	89.2	70-130	5.92	30	
Toluene	0.0531	0.0050	"	0.100	ND	53.1	70-130	1.19	30	QM-05
Ethylbenzene	0.0514	0.0050	"	0.100	ND	51.4	70-130	0.350	30	QM-05
m,p-Xylene	0.0914	0.010	"	0.200	ND	45.7	70-130	2.30	30	QM-05
o-Xylene	0.0395	0.0050	"	0.100	ND	39.5	70-130	4.60	30	QM-05
1,2,4-Trimethylbenzene	0.0320	0.0050	"	0.100	ND	32.0	70-130	6.71	30	QM-05
1,3,5-Trimethylbenzene	0.0455	0.0050	"	0.100	ND	45.5	70-130	1.37	30	QM-05
Naphthalene	0.0133	0.0038	"	0.100	ND	13.3	70-130	16.2	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0400		95.9	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

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Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGK0911 - EPA 3550A

Blank (BGK0911-BLK1)

Prepared: 11/22/23 Analyzed: 11/24/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.7		"	12.5		102	30-150			

LCS (BGK0911-BS1)

Prepared: 11/22/23 Analyzed: 11/24/23

C10-C28 (DRO)	611	50	mg/kg	500		122	70-130			
Surrogate: o-Terphenyl	17.5		"	12.5		140	30-150			

Matrix Spike (BGK0911-MS1)

Source: 2311410-01

Prepared: 11/22/23 Analyzed: 11/24/23

C10-C28 (DRO)	616	50	mg/kg	500	17.7	120	70-130			
Surrogate: o-Terphenyl	13.8		"	12.5		110	30-150			

Matrix Spike Dup (BGK0911-MSD1)

Source: 2311410-01

Prepared: 11/22/23 Analyzed: 11/24/23

C10-C28 (DRO)	617	50	mg/kg	500	17.7	120	70-130	0.255	20	
Surrogate: o-Terphenyl	13.9		"	12.5		111	30-150			

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Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGK0926 - EPA 5030 Soil MS

Blank (BGK0926-BLK1)

Prepared & Analyzed: 11/27/23

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	0.0353		"	0.0333		106	40-150			
Surrogate: Fluoranthene-d10	0.0365		"	0.0333		110	40-150			

LCS (BGK0926-BS1)

Prepared & Analyzed: 11/27/23

Acenaphthene	0.0303	0.00500	mg/kg	0.0333	91.0	31-137
Anthracene	0.0293	0.00500	"	0.0333	88.0	30-120
Benzo (a) anthracene	0.0321	0.00500	"	0.0333	96.2	30-120
Benzo (a) pyrene	0.0274	0.00500	"	0.0333	82.2	30-120
Benzo (b) fluoranthene	0.0298	0.00500	"	0.0333	89.5	30-120
Benzo (k) fluoranthene	0.0305	0.00500	"	0.0333	91.6	30-120
Chrysene	0.0302	0.00500	"	0.0333	90.5	30-120
Dibenz (a,h) anthracene	0.0308	0.00500	"	0.0333	92.3	30-120
Fluoranthene	0.0252	0.00500	"	0.0333	75.5	30-120
Fluorene	0.0308	0.00500	"	0.0333	92.3	30-120
Indeno (1,2,3-cd) pyrene	0.0258	0.00500	"	0.0333	77.4	30-120
Pyrene	0.0200	0.00500	"	0.0333	60.1	35-142
1-Methylnaphthalene	0.0297	0.00500	"	0.0333	89.2	35-142
2-Methylnaphthalene	0.0259	0.00500	"	0.0333	77.6	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0312		"	0.0333	93.7	40-150
Surrogate: Fluoranthene-d10	0.0308		"	0.0333	92.5	40-150

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Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGK0926 - EPA 5030 Soil MS

Matrix Spike (BGK0926-MS1)

Source: 2311425-04

Prepared & Analyzed: 11/27/23

Acenaphthene	0.0208	0.00500	mg/kg	0.0333	ND	62.5	31-137			
Anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120			
Benzo (a) anthracene	0.0232	0.00500	"	0.0333	ND	69.5	30-120			
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.7	30-120			
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.8	30-120			
Benzo (k) fluoranthene	0.0225	0.00500	"	0.0333	ND	67.6	30-120			
Chrysene	0.0224	0.00500	"	0.0333	ND	67.1	30-120			
Dibenz (a,h) anthracene	0.0214	0.00500	"	0.0333	ND	64.3	30-120			
Fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120			
Fluorene	0.0213	0.00500	"	0.0333	ND	63.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120			
Pyrene	0.0125	0.00500	"	0.0333	ND	37.4	35-142			
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.7	15-130			
2-Methylnaphthalene	0.0340	0.00500	"	0.0333	ND	102	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0200		"	0.0333		60.1	40-150			
Surrogate: Fluoranthene-d10	0.0218		"	0.0333		65.4	40-150			

Matrix Spike Dup (BGK0926-MSD1)

Source: 2311425-04

Prepared & Analyzed: 11/27/23

Acenaphthene	0.0211	0.00500	mg/kg	0.0333	ND	63.2	31-137	1.19	30	
Anthracene	0.0142	0.00500	"	0.0333	ND	42.6	30-120	38.9	30	QR-02
Benzo (a) anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	51.1	30	QR-02
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	3.35	30	
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.6	30-120	40.5	30	QR-02
Benzo (k) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	45.9	30	QR-02
Chrysene	0.0151	0.00500	"	0.0333	ND	45.2	30-120	39.1	30	QR-02
Dibenz (a,h) anthracene	0.0142	0.00500	"	0.0333	ND	42.6	30-120	40.7	30	QR-02
Fluoranthene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	7.79	30	
Fluorene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	22.5	30	
Indeno (1,2,3-cd) pyrene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	0.723	30	
Pyrene	0.0171	0.00500	"	0.0333	ND	51.4	35-142	31.5	30	QR-02
1-Methylnaphthalene	0.0142	0.00500	"	0.0333	ND	42.5	15-130	21.4	50	
2-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	42.1	15-130	83.1	50	QR-02
Surrogate: 2-Methylnaphthalene-d10	0.0153		"	0.0333		45.9	40-150			
Surrogate: Fluoranthene-d10	0.0153		"	0.0333		46.0	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGL0750 - EPA 5030 Soil MS

Blank (BGL0750-BLK1)

Prepared: 12/20/23 Analyzed: 12/21/23

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	0.0145		"	0.0333		43.4	40-150			
Surrogate: Fluoranthene-d10	0.0324		"	0.0333		97.2	40-150			

LCS (BGL0750-BS1)

Prepared: 12/20/23 Analyzed: 12/21/23

Acenaphthene	0.0261	0.00500	mg/kg	0.0333		78.3	31-137			
Anthracene	0.0267	0.00500	"	0.0333		80.2	30-120			
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.2	30-120			
Benzo (a) pyrene	0.0219	0.00500	"	0.0333		65.7	30-120			
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (k) fluoranthene	0.0268	0.00500	"	0.0333		80.3	30-120			
Chrysene	0.0281	0.00500	"	0.0333		84.4	30-120			
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333		57.6	30-120			
Fluoranthene	0.0275	0.00500	"	0.0333		82.4	30-120			
Fluorene	0.0248	0.00500	"	0.0333		74.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333		54.1	30-120			
Pyrene	0.0290	0.00500	"	0.0333		87.1	35-142			
1-Methylnaphthalene	0.0242	0.00500	"	0.0333		72.7	35-142			
2-Methylnaphthalene	0.0243	0.00500	"	0.0333		72.8	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0230		"	0.0333		68.9	40-150			
Surrogate: Fluoranthene-d10	0.0283		"	0.0333		84.9	40-150			

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Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGL0750 - EPA 5030 Soil MS

Matrix Spike (BGL0750-MS1)

Source: 2312262-01

Prepared: 12/20/23 Analyzed: 12/21/23

Acenaphthene	0.0204	0.00500	mg/kg	0.0333	ND	61.2	31-137		
Anthracene	0.0220	0.00500	"	0.0333	ND	66.0	30-120		
Benzo (a) anthracene	0.0239	0.00500	"	0.0333	ND	71.7	30-120		
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.8	30-120		
Benzo (b) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.2	30-120		
Benzo (k) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.5	30-120		
Chrysene	0.0225	0.00500	"	0.0333	ND	67.6	30-120		
Dibenz (a,h) anthracene	0.0172	0.00500	"	0.0333	ND	51.5	30-120		
Fluoranthene	0.0238	0.00500	"	0.0333	0.00873	45.2	30-120		
Fluorene	0.0210	0.00500	"	0.0333	ND	62.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Pyrene	0.0270	0.00500	"	0.0333	0.00736	59.1	35-142		
1-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	58.7	15-130		
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.4	40-150		
Surrogate: Fluoranthene-d10	0.0227		"	0.0333		68.2	40-150		

Matrix Spike Dup (BGL0750-MSD1)

Source: 2312262-01

Prepared: 12/20/23 Analyzed: 12/21/23

Acenaphthene	0.0189	0.00500	mg/kg	0.0333	ND	56.8	31-137	7.46	30
Anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	7.65	30
Benzo (a) anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	7.33	30
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	8.99	30
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	6.83	30
Benzo (k) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	10.7	30
Chrysene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	16.1	30
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	12.2	30
Fluoranthene	0.0244	0.00500	"	0.0333	0.00873	47.0	30-120	2.56	30
Fluorene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	7.47	30
Indeno (1,2,3-cd) pyrene	0.0161	0.00500	"	0.0333	ND	48.4	30-120	9.58	30
Pyrene	0.0265	0.00500	"	0.0333	0.00736	57.6	35-142	1.83	30
1-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.9	15-130	18.2	50
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	10.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0161		"	0.0333		48.4	40-150		
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGK1060 - EPA 3050B

Blank (BGK1060-BLK1)

Prepared & Analyzed: 11/29/23

Boron ND 2.00 mg/L

LCS (BGK1060-BS1)

Prepared: 11/29/23 Analyzed: 11/30/23

Boron 4.11 2.00 mg/L 5.00 82.2 80-120

Duplicate (BGK1060-DUP1)

Source: 2311430-01

Prepared: 11/29/23 Analyzed: 11/30/23

Boron 0.160 2.00 mg/L 0.188 16.1 20

Matrix Spike (BGK1060-MS1)

Source: 2311430-01

Prepared: 11/29/23 Analyzed: 11/30/23

Boron 4.27 2.00 mg/L 5.00 0.188 81.7 75-125

Matrix Spike Dup (BGK1060-MSD1)

Source: 2311430-01

Prepared: 11/29/23 Analyzed: 11/30/23

Boron 4.62 2.00 mg/L 5.00 0.188 88.7 75-125 7.85 25

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Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGL0025 - EPA 3050B

Blank (BGL0025-BLK1)

Prepared: 12/01/23 Analyzed: 12/05/23

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

LCS (BGL0025-BS1)

Prepared: 12/01/23 Analyzed: 12/05/23

Arsenic	48.0	0.200	mg/kg wet	40.0	120	80-120
Barium	41.8	0.400	"	40.0	104	80-120
Cadmium	2.13	0.200	"	2.00	107	80-120
Copper	40.6	0.400	"	40.0	102	80-120
Lead	20.4	0.200	"	20.0	102	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Silver	2.37	0.0200	"	2.00	118	80-120
Zinc	42.1	0.400	"	40.0	105	80-120
Selenium	4.26	0.260	"	4.00	107	80-120

Duplicate (BGL0025-DUP1)

Source: 2311421-01

Prepared: 12/01/23 Analyzed: 12/05/23

Arsenic	1.46	0.200	mg/kg dry	1.45	0.507	20
Barium	113	0.400	"	102	9.92	20
Cadmium	0.735	0.200	"	0.728	0.873	20
Copper	7.84	0.400	"	8.13	3.55	20
Lead	30.9	0.200	"	27.2	12.8	20
Nickel	2.45	0.400	"	2.47	0.820	20
Silver	0.311	0.0200	"	0.330	5.67	20
Zinc	25.8	0.400	"	27.4	5.97	20
Selenium	0.346	0.260	"	0.176	65.0	20

QR-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGL0025 - EPA 3050B

Matrix Spike (BGL0025-MS1)		Source: 2311421-01			Prepared: 12/01/23 Analyzed: 12/05/23					
Arsenic	20.7	0.200	mg/kg dry	49.1	1.45	39.2	75-125			QM-07
Barium	158	0.400	"	49.1	102	114	75-125			
Cadmium	3.28	0.200	"	2.46	0.728	104	75-125			
Copper	28.4	0.400	"	49.1	8.13	41.2	75-125			QM-07
Lead	50.4	0.200	"	24.6	27.2	94.3	75-125			
Nickel	23.2	0.400	"	49.1	2.47	42.1	75-125			QM-07
Silver	2.88	0.0200	"	2.46	0.330	104	75-125			
Zinc	49.5	0.400	"	49.1	27.4	44.9	75-125			QM-07
Selenium	7.67	0.260	"	4.91	0.176	153	75-125			QM-07

Matrix Spike Dup (BGL0025-MSD1)		Source: 2311421-01			Prepared: 12/01/23 Analyzed: 12/05/23					
Arsenic	20.7	0.200	mg/kg dry	49.1	1.45	39.2	75-125	0.00710	25	QM-07
Barium	157	0.400	"	49.1	102	113	75-125	0.613	25	
Cadmium	3.24	0.200	"	2.46	0.728	102	75-125	1.29	25	
Copper	28.4	0.400	"	49.1	8.13	41.3	75-125	0.0796	25	QM-07
Lead	50.0	0.200	"	24.6	27.2	92.9	75-125	0.712	25	
Nickel	23.1	0.400	"	49.1	2.47	42.1	75-125	0.142	25	QM-07
Silver	2.85	0.0200	"	2.46	0.330	102	75-125	1.18	25	
Zinc	49.0	0.400	"	49.1	27.4	43.8	75-125	1.06	25	QM-07
Selenium	9.33	0.260	"	4.91	0.176	186	75-125	19.6	25	QM-07

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16
Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGK0982 - 3060A Mod

Blank (BGK0982-BLK1)

Prepared & Analyzed: 11/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0982-BS1)

Prepared & Analyzed: 11/27/23

Chromium, Hexavalent 23.6 0.30 mg/kg wet 25.0 94.4 80-120

Duplicate (BGK0982-DUP1)

Source: 2311410-01

Prepared & Analyzed: 11/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0982-MS1)

Source: 2311410-01

Prepared & Analyzed: 11/27/23

Chromium, Hexavalent 26.2 0.30 mg/kg dry 28.3 ND 92.8 75-125

Matrix Spike Dup (BGK0982-MSD1)

Source: 2311410-01

Prepared & Analyzed: 11/27/23

Chromium, Hexavalent 26.2 0.30 mg/kg dry 28.3 ND 92.6 75-125 0.216 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

Project Number: UWRWE-A3444-ABN

Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGL0169 - General Preparation

Blank (BGL0169-BLK1)

Prepared: 12/05/23 Analyzed: 12/07/23

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

LCS (BGL0169-BS1)

Prepared: 12/05/23 Analyzed: 12/07/23

Calcium	5.86	0.0500	mg/L wet	5.00	117	70-130
Magnesium	5.64	0.0500	"	5.00	113	70-130
Sodium	5.62	0.0500	"	5.00	112	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Kehn USX AA-01-16	
PO Box 1289	Project Number: UWRWE-A3444-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/08/24 09:50

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BGK1033 - General Preparation

Duplicate (BGK1033-DUP1)	Source: 2311429-11		Prepared & Analyzed: 11/28/23							
% Solids	92.8		%		92.9			0.0728	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

Project Number: UWRWE-A3444-ABN

Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGL0194 - General Preparation

Blank (BGL0194-BLK1)

Prepared & Analyzed: 12/06/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0194-BS1)

Prepared & Analyzed: 12/06/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGL0194-DUP1)

Source: 2311427-01

Prepared & Analyzed: 12/06/23

Specific Conductance (EC) 0.369 0.0100 mmhos/cm 0.369 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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 BGL0193 - General Preparation

LCS (BGL0193-BS1)

Prepared & Analyzed: 12/06/23

pH	9.09		pH Units	9.18		99.0	95-105		
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Duplicate (BGL0193-DUP1)

Source: 2311427-01

Prepared & Analyzed: 12/06/23

pH	8.17		pH Units		8.17			0.00	20
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Batch BGL0837 - General Preparation

LCS (BGL0837-BS1)

Prepared & Analyzed: 12/21/23

pH	9.16		pH Units	9.18		99.8	95-105		
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Duplicate (BGL0837-DUP1)

Source: 2310541-04

Prepared & Analyzed: 12/21/23

pH	9.10		pH Units		9.13			0.329	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

Project Number: UWRWE-A3444-ABN
Project Manager: Paul Henchan

Reported:
01/08/24 09:50

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