

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 12, 2025

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Kehn USX AA-01-16

Work Order #2501406

Enclosed are the results of analyses for samples received by Summit Scientific on 01/28/25 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

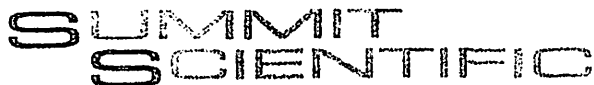
Reported:
02/12/25 08:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01-4.0ft	2501406-01	Soil	01/28/25 13:15	01/28/25 16:50
N01-3.0ft	2501406-02	Soil	01/28/25 13:15	01/28/25 16:50
S01-3.0ft	2501406-03	Soil	01/28/25 13:15	01/28/25 16:50
E01-3.0ft	2501406-04	Soil	01/28/25 13:15	01/28/25 16:50
W01-3.0ft	2501406-05	Soil	01/28/25 13:15	01/28/25 16:50
BKG01-3.0ft	2501406-06	Soil	01/28/25 13:15	01/28/25 16:50
BKG01-4.0ft	2501406-07	Soil	01/28/25 13:15	01/28/25 16:50
BKG02-3.0ft	2501406-08	Soil	01/28/25 13:15	01/28/25 16:50
BKG02-4.0ft	2501406-09	Soil	01/28/25 13:15	01/28/25 16:50
BKG03-3.0ft	2501406-10	Soil	01/28/25 13:15	01/28/25 16:50
BKG03-4.0ft	2501406-11	Soil	01/28/25 13:15	01/28/25 16:50
BKG04-3.0ft	2501406-12	Soil	01/28/25 13:15	01/28/25 16:50
BKG04-4.0ft	2501406-13	Soil	01/28/25 13:15	01/28/25 16:50
BKG05-3.0ft	2501406-14	Soil	01/28/25 13:15	01/28/25 16:50
BKG05-4.0ft	2501406-15	Soil	01/28/25 13:15	01/28/25 16:50

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

Lab ID
2501404
Page 1 of 1

Client: Fremont		Project Manager: Paul Henehan		Company: Chevron / Noble	
Address:		E-Mail: <i>Dot List</i>		Project Name/Location:	
City/State/Zip:		<i>Josh & Ethan @ Fremont Co.</i>		AFE#:	
Phone: <i>813-514-7730</i>		Project Name: <i>Kehn USX AA01-16</i>		PO/Billing Codes: <i>UWRWE-A334-EMU</i>	
Sampler Name: <i>Joshua Belanger</i>		Project Number: <i>C023-299</i>		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full TABLE	915-1 (soil)	915 metals		EC, SAZ, Boron PH
1	B01-4.0 ft	1/28		2		X	X			X			X				
2	N01-3.0 ft												X				
3	S01-3.0 ft												X				
4	E01-3.0 ft												X				
5	W01-3.0 ft												X				
6	BK601-3.0 ft													X	X		
7	BK601-4.0 ft																
8	BK602-3.0 ft																
9	BK602-4.0 ft																
10	BK603-3.0 ft																
11	BK603-4.0 ft																
12	BK604-3.0 ft																
13	BK604-4.0 ft																
14	BK605-3.0 ft																
15	BK605-4.0 ft																

Relinquished by: <i>J. Belanger</i>	Date/Time: <i>1/28 1315</i>	Received by: <i>Summit North</i>	Date/Time: <i>1/28 1315</i>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <i>SL</i>	Date/Time: <i>12825</i>	Received by: <i>[Signature]</i>	Date/Time: <i>12825</i>	1 Day	Field ORP	
	<i>11050</i>		<i>11050</i>	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>4.9</i>	Corrected Temperature: <i>0</i>	IR gun #: <i>1</i>	HNO3 lot #:			

S₂

S2 Work Order# 2501406

Sample Receipt Checklist

Client: Fremont Client Project ID: KEHN USX AD 01-16

Received Via: H.D./EU/FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 4.9 Thermometer # 1

Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

	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.	-			<u>once</u>
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?	-			<u>same day</u>
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, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<u>AS</u>	✓		<u>no times</u>
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

AS

Custodian Printed Name

1/28/25

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

B01-4.0ft
2501406-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1287	01/28/25	01/28/25	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: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0431	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1289	01/28/25	01/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.3	90.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2501406-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0103	0.00500	mg/kg	1	BIA1519	01/31/25	02/07/25	EPA 8270D SIM	
Anthracene	0.0225	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0434	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0245	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0364	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0150	0.00500	"	"	"	"	"	"	
Chrysene	0.0466	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.00677	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0944	0.00500	"	"	"	"	"	"	
Fluorene	0.0116	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0239	0.00500	"	"	"	"	"	"	
Pyrene	0.0825	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/29/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.63	0.200	mg/kg dry	1	BIA1304	01/29/25	01/30/25	EPA 6020B	

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Project Manager: Paul Henchan

Reported:
02/12/25 08:05

B01-4.0ft
2501406-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	113	0.400	mg/kg dry	1	BIA1304	01/29/25	01/30/25	EPA 6020B	
Cadmium	0.202	0.200	"	"	"	"	"	"	
Copper	3.18	0.400	"	"	"	"	"	"	
Lead	5.40	0.200	"	"	"	"	"	"	
Nickel	3.86	0.400	"	"	"	"	"	"	
Silver	0.0262	0.0200	"	"	"	"	"	"	
Zinc	15.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	101	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	22.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.550	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BIA1303	01/29/25	01/29/25	Calculation	

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Reported:
 02/12/25 08:05

B01-4.0ft
2501406-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.398	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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Project Number: UWRWE-A3444-EWV
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Reported:
02/12/25 08:05

N01-3.0ft
2501406-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1287	01/28/25	01/28/25	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: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1289	01/28/25	01/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

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

PAH by EPA Method 8270D SIM

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02/12/25 08:05

N01-3.0ft
2501406-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1519	01/31/25	02/07/25	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	0.00735	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00599	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0138	41.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Kehn USX AA-01-16

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

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02/12/25 08:05

N01-3.0ft
2501406-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.55	0.200	mg/kg dry	1	BIA1304	01/29/25	01/30/25	EPA 6020B
Barium	74.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.30	0.400	"	"	"	"	"	"
Lead	5.24	0.200	"	"	"	"	"	"
Nickel	3.75	0.400	"	"	"	"	"	"
Silver	0.0231	0.0200	"	"	"	"	"	"
Zinc	28.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.4	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	5.53	0.0500	"	"	"	"	"	"	
Sodium	9.39	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.350	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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N01-3.0ft
2501406-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.241	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

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

Reported:
02/12/25 08:05

S01-3.0ft
2501406-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1287	01/28/25	01/28/25	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: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0441	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1289	01/28/25	01/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.3	90.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Reported:
 02/12/25 08:05

S01-3.0ft
2501406-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1519	01/31/25	02/07/25	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: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

S01-3.0ft
2501406-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.10	0.200	mg/kg dry	1	BIA1304	01/29/25	01/30/25	EPA 6020B
Barium	75.3	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	3.38	0.400	"	"	"	"	"	"
Lead	5.62	0.200	"	"	"	"	"	"
Nickel	3.75	0.400	"	"	"	"	"	"
Silver	0.0265	0.0200	"	"	"	"	"	"
Zinc	15.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.2	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	10.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.334	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Kehn USX AA-01-16

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

Reported:
 02/12/25 08:05

S01-3.0ft
2501406-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	95.3	%	1	BIA1303	01/29/25	01/29/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.335	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

E01-3.0ft
2501406-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1287	01/28/25	01/28/25	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: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0434	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1289	01/28/25	01/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.1	105 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A3444-EWV
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Reported:
02/12/25 08:05

E01-3.0ft
2501406-04 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1519	01/31/25	02/07/25	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	0.00586	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00505	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	55.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

E01-3.0ft
2501406-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.53	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B
Barium	84.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.88	0.400	"	"	"	"	"	"
Lead	5.20	0.200	"	"	"	"	"	"
Nickel	3.50	0.400	"	"	"	"	"	"
Silver	0.0222	0.0200	"	"	"	"	"	"
Zinc	14.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	70.0	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	13.0	0.0500	"	"	"	"	"	"	
Sodium	6.36	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.183	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
 02/12/25 08:05

E01-3.0ft
2501406-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.346	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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Reported:
02/12/25 08:05

W01-3.0ft
2501406-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1287	01/28/25	01/28/25	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: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0439	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1289	01/28/25	01/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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W01-3.0ft
2501406-05 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0118	0.00500	mg/kg	1	BIA1519	01/31/25	02/07/25	EPA 8270D SIM	
Anthracene	0.0356	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0907	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0571	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0819	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0304	0.00500	"	"	"	"	"	"	
Chrysene	0.0998	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.179	0.00500	"	"	"	"	"	"	
Fluorene	0.0166	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0509	0.00500	"	"	"	"	"	"	
Pyrene	0.149	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	45.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0156	46.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.74	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	

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Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

W01-3.0ft
2501406-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	59.1	0.400	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.03	0.400	"	"	"	"	"	"	
Lead	5.06	0.200	"	"	"	"	"	"	
Nickel	3.36	0.400	"	"	"	"	"	"	
Silver	0.0208	0.0200	"	"	"	"	"	"	
Zinc	13.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.2	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	7.22	0.0500	"	"	"	"	"	"	
Sodium	9.72	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.332	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

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 - Kehn USX AA-01-16

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

Reported:
 02/12/25 08:05

W01-3.0ft
2501406-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	95.7	%	1	BIA1303	01/29/25	01/29/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.270	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

BKG01-3.0ft
2501406-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.56	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	26.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.19	0.400	"	"	"	"	"	"	
Lead	3.38	0.200	"	"	"	"	"	"	
Nickel	2.04	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.44	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	47.2	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	0.975	0.0500	"	"	"	"	"	"	

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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

BKG01-3.0ft
2501406-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0336	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0507	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.37		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

BKG01-4.0ft
2501406-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.49	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	35.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.41	0.400	"	"	"	"	"	"	
Lead	3.72	0.200	"	"	"	"	"	"	
Nickel	2.30	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	65.3	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	12.9	0.0500	"	"	"	"	"	"	
Sodium	0.907	0.0500	"	"	"	"	"	"	

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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

BKG01-4.0ft
2501406-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0268	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.2		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0402	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

BKG02-3.0ft
2501406-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.14	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	43.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.43	0.400	"	"	"	"	"	"	
Lead	3.99	0.200	"	"	"	"	"	"	
Nickel	2.50	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	34.4	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	6.09	0.0500	"	"	"	"	"	"	
Sodium	0.782	0.0500	"	"	"	"	"	"	

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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

BKG02-3.0ft
2501406-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0323	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0438	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.45		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

BKG02-4.0ft
2501406-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.18	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	40.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.44	0.400	"	"	"	"	"	"	
Lead	4.13	0.200	"	"	"	"	"	"	
Nickel	2.46	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	64.9	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	12.6	0.0500	"	"	"	"	"	"	
Sodium	0.893	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 02/12/25 08:05

BKG02-4.0ft
2501406-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0266	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0538	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.42		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

BKG03-3.0ft
2501406-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.90	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	35.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.29	0.400	"	"	"	"	"	"	
Lead	3.94	0.200	"	"	"	"	"	"	
Nickel	2.38	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	53.1	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	9.20	0.0500	"	"	"	"	"	"	
Sodium	0.933	0.0500	"	"	"	"	"	"	

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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

BKG03-3.0ft
2501406-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0311	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0591	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.39		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

BKG03-4.0ft
2501406-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.12	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	38.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.50	0.400	"	"	"	"	"	"	
Lead	3.60	0.200	"	"	"	"	"	"	
Nickel	2.41	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	53.2	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	8.84	0.0500	"	"	"	"	"	"	
Sodium	1.12	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
02/12/25 08:05

BKG03-4.0ft
2501406-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0375	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.5		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0862	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

BKG04-3.0ft
2501406-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.25	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	44.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.20	0.400	"	"	"	"	"	"	
Lead	4.06	0.200	"	"	"	"	"	"	
Nickel	2.41	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	35.2	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	6.19	0.0500	"	"	"	"	"	"	
Sodium	0.874	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 02/12/25 08:05

BKG04-3.0ft
2501406-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0357	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0364	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.44		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

BKG04-4.0ft
2501406-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.36	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	45.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.47	0.400	"	"	"	"	"	"	
Lead	4.30	0.200	"	"	"	"	"	"	
Nickel	2.85	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	111	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	19.9	0.0500	"	"	"	"	"	"	
Sodium	1.46	0.0500	"	"	"	"	"	"	

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 PO Box 1289
 Wellington CO, 80549

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

Reported:
 02/12/25 08:05

BKG04-4.0ft
2501406-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0335	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0585	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

BKG05-3.0ft
2501406-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.57	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	26.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.25	0.400	"	"	"	"	"	"	
Lead	3.49	0.200	"	"	"	"	"	"	
Nickel	2.12	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.72	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	36.5	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	6.22	0.0500	"	"	"	"	"	"	
Sodium	0.842	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
02/12/25 08:05

BKG05-3.0ft
2501406-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0339	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0461	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.25		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

BKG05-4.0ft
2501406-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA1309	01/29/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.85	0.200	mg/kg dry	1	BIA1305	01/29/25	01/30/25	EPA 6020B	
Barium	41.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.51	0.400	"	"	"	"	"	"	
Lead	4.15	0.200	"	"	"	"	"	"	
Nickel	2.41	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1318	01/29/25	01/29/25	EPA 7196A	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	75.9	0.0500	mg/L dry	1	BIA1291	01/28/25	01/30/25	EPA 6020B	B
Magnesium	14.4	0.0500	"	"	"	"	"	"	
Sodium	0.662	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 02/12/25 08:05

BKG05-4.0ft
2501406-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0183	0.00100	units	1	BIA1422	01/30/25	01/30/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BIA1303	01/29/25	01/29/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0303	0.0100	mmhos/cm	1	BIA1292	01/28/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/28/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.63		pH Units	1	BIA1293	01/28/25	01/30/25	EPA 9045D	

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1287 - EPA 5030 Soil MS

Blank (BIA1287-BLK1)

Prepared: 01/28/25 Analyzed: 01/29/25

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	0.0436		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

LCS (BIA1287-BS1)

Prepared: 01/28/25 Analyzed: 01/29/25

Benzene	0.0895	0.0020	mg/kg	0.100		89.5	70-130			
Toluene	0.0880	0.0050	"	0.100		88.0	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.178	0.010	"	0.200		89.0	70-130			
o-Xylene	0.0867	0.0050	"	0.100		86.7	70-130			
1,2,4-Trimethylbenzene	0.0827	0.0050	"	0.100		82.7	70-130			
1,3,5-Trimethylbenzene	0.0824	0.0050	"	0.100		82.4	70-130			
Naphthalene	0.0845	0.0038	"	0.100		84.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

Matrix Spike (BIA1287-MS1)

Source: 2501402-01

Prepared: 01/28/25 Analyzed: 01/29/25

Benzene	0.0852	0.0020	mg/kg	0.100	ND	85.2	70-130			
Toluene	0.0835	0.0050	"	0.100	ND	83.5	70-130			
Ethylbenzene	0.0913	0.0050	"	0.100	ND	91.3	70-130			
m,p-Xylene	0.179	0.010	"	0.200	0.00984	84.8	70-130			
o-Xylene	0.0843	0.0050	"	0.100	ND	84.3	70-130			
1,2,4-Trimethylbenzene	0.0865	0.0050	"	0.100	0.00648	80.0	70-130			
1,3,5-Trimethylbenzene	0.0851	0.0050	"	0.100	0.00396	81.2	70-130			
Naphthalene	0.0869	0.0038	"	0.100	0.00978	77.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1287 - EPA 5030 Soil MS

Matrix Spike Dup (BIA1287-MSD1)	Source: 2501402-01			Prepared: 01/28/25 Analyzed: 01/29/25						
Benzene	0.0922	0.0020	mg/kg	0.100	ND	92.2	70-130	7.98	30	
Toluene	0.0891	0.0050	"	0.100	ND	89.1	70-130	6.47	30	
Ethylbenzene	0.0965	0.0050	"	0.100	ND	96.5	70-130	5.62	30	
m,p-Xylene	0.189	0.010	"	0.200	0.00984	89.5	70-130	5.16	30	
o-Xylene	0.0903	0.0050	"	0.100	ND	90.3	70-130	6.84	30	
1,2,4-Trimethylbenzene	0.0892	0.0050	"	0.100	0.00648	82.8	70-130	3.14	30	
1,3,5-Trimethylbenzene	0.0890	0.0050	"	0.100	0.00396	85.0	70-130	4.44	30	
Naphthalene	0.0953	0.0038	"	0.100	0.00978	85.6	70-130	9.25	30	
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0434		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA1289 - EPA 3550A

Blank (BIA1289-BLK1)

Prepared: 01/28/25 Analyzed: 01/29/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.1	30-150				

LCS (BIA1289-BS1)

Prepared: 01/28/25 Analyzed: 01/29/25

C10-C28 (DRO)	508	50	mg/kg	500		102	70-130				
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		95.8	30-150				

Matrix Spike (BIA1289-MS1)

Source: 2501402-01

Prepared: 01/28/25 Analyzed: 01/29/25

C10-C28 (DRO)	507	50	mg/kg	500	22.1	96.9	70-130				
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		88.6	30-150				

Matrix Spike Dup (BIA1289-MSD1)

Source: 2501402-01

Prepared: 01/28/25 Analyzed: 01/29/25

C10-C28 (DRO)	518	50	mg/kg	500	22.1	99.2	70-130	2.16	20		
Surrogate: <i>o</i> -Terphenyl	9.85		"	12.5		78.8	30-150				

Summit Scientific

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PO Box 1289
Wellington CO, 80549

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

Reported:
02/12/25 08:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA1519 - EPA 5030 Soil MS

Blank (BIA1519-BLK1)

Prepared: 01/31/25 Analyzed: 02/07/25

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.3</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0245</i>		<i>"</i>	<i>0.0333</i>		<i>73.4</i>	<i>40-140</i>			

LCS (BIA1519-BS1)

Prepared: 01/31/25 Analyzed: 02/07/25

Acenaphthene	0.0192	0.00500	mg/kg	0.0333		57.6	40-140			
Anthracene	0.0201	0.00500	"	0.0333		60.4	40-140			
Benzo (a) anthracene	0.0220	0.00500	"	0.0333		66.0	40-140			
Benzo (a) pyrene	0.0192	0.00500	"	0.0333		57.7	40-140			
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333		54.3	40-140			
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333		62.6	40-140			
Chrysene	0.0247	0.00500	"	0.0333		74.0	40-140			
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333		56.9	40-140			
Fluoranthene	0.0189	0.00500	"	0.0333		56.8	40-140			
Fluorene	0.0190	0.00500	"	0.0333		57.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333		51.2	40-140			
Pyrene	0.0203	0.00500	"	0.0333		60.9	40-140			
1-Methylnaphthalene	0.0166	0.00500	"	0.0333		49.9	40-140			
2-Methylnaphthalene	0.0173	0.00500	"	0.0333		51.9	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0183</i>		<i>"</i>	<i>0.0333</i>		<i>54.8</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0222</i>		<i>"</i>	<i>0.0333</i>		<i>66.6</i>	<i>40-140</i>			

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-EWV
Project Manager: Paul Henchan

Reported:
02/12/25 08:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA1519 - EPA 5030 Soil MS

Matrix Spike (BIA1519-MS1)	Source: 2501351-01			Prepared: 01/31/25 Analyzed: 02/07/25						
Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	59.9	40-140			
Anthracene	0.0188	0.00500	"	0.0333	ND	56.3	40-140			
Benzo (a) anthracene	0.0202	0.00500	"	0.0333	ND	60.5	40-140			
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	ND	56.6	40-140			
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	40-140			
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	40-140			
Chrysene	0.0221	0.00500	"	0.0333	ND	66.3	40-140			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333	ND	59.3	40-140			
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	40-140			
Fluorene	0.0251	0.00500	"	0.0333	ND	75.4	40-140			
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.4	40-140			
Pyrene	0.0208	0.00500	"	0.0333	ND	62.5	40-140			
1-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.5	40-140			
2-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.0	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0202</i>		<i>"</i>	<i>0.0333</i>		<i>60.7</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0223</i>		<i>"</i>	<i>0.0333</i>		<i>66.9</i>	<i>40-140</i>			

Matrix Spike Dup (BIA1519-MSD1)	Source: 2501351-01			Prepared: 01/31/25 Analyzed: 02/07/25						
Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.7	40-140	16.6	30	
Anthracene	0.0169	0.00500	"	0.0333	ND	50.8	40-140	10.3	30	
Benzo (a) anthracene	0.0180	0.00500	"	0.0333	ND	54.0	40-140	11.2	30	
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.7	40-140	19.1	30	
Benzo (b) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	40-140	27.2	30	
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.5	40-140	24.9	30	
Chrysene	0.0190	0.00500	"	0.0333	ND	56.9	40-140	15.2	30	
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	40-140	17.3	30	
Fluoranthene	0.0173	0.00500	"	0.0333	ND	51.9	40-140	9.55	30	
Fluorene	0.0205	0.00500	"	0.0333	ND	61.5	40-140	20.3	30	
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.2	40-140	15.8	30	
Pyrene	0.0178	0.00500	"	0.0333	ND	53.5	40-140	15.5	30	
1-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.4	40-140	20.9	30	
2-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.9	40-140	24.4	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0155</i>		<i>"</i>	<i>0.0333</i>		<i>46.4</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0201</i>		<i>"</i>	<i>0.0333</i>		<i>60.2</i>	<i>40-140</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
 02/12/25 08:05

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BIA1309 - EPA 3050B

Blank (BIA1309-BLK1)

Prepared & Analyzed: 01/29/25

Boron ND 2.00 mg/L

LCS (BIA1309-BS1)

Prepared & Analyzed: 01/29/25

Boron 4.81 2.00 mg/L 5.00 96.2 80-120

Duplicate (BIA1309-DUP1)

Source: 2501406-01

Prepared & Analyzed: 01/29/25

Boron 0.285 2.00 mg/L 0.187 41.5 20 QR-01

Matrix Spike (BIA1309-MS1)

Source: 2501406-01

Prepared: 01/29/25 Analyzed: 01/30/25

Boron 4.74 2.00 mg/L 5.02 0.187 90.6 75-125

Matrix Spike Dup (BIA1309-MSD1)

Source: 2501406-01

Prepared: 01/29/25 Analyzed: 01/30/25

Boron 4.99 2.00 mg/L 5.02 0.187 95.7 75-125 5.25 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
 02/12/25 08:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA1304 - EPA 3050B

Blank (BIA1304-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

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 (BIA1304-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

Arsenic	34.4	0.200	mg/kg wet	39.1	88.2	80-120
Barium	36.3	0.400	"	39.1	92.9	80-120
Cadmium	1.80	0.200	"	1.95	92.2	80-120
Copper	39.1	0.400	"	39.1	100	80-120
Lead	18.2	0.200	"	19.5	93.3	80-120
Nickel	38.4	0.400	"	39.1	98.3	80-120
Silver	1.81	0.0200	"	1.95	92.5	80-120
Zinc	38.3	0.400	"	39.1	97.9	80-120
Selenium	4.14	0.260	"	3.91	106	80-120

Duplicate (BIA1304-DUP1)

Source: 2501401-01

Prepared: 01/29/25 Analyzed: 01/30/25

Arsenic	4.25	0.200	mg/kg dry	3.83	10.3	20
Barium	127	0.400	"	121	4.86	20
Cadmium	0.219	0.200	"	0.207	5.72	20
Copper	4.19	0.400	"	4.11	1.89	20
Lead	6.04	0.200	"	5.69	5.96	20
Nickel	4.48	0.400	"	4.55	1.56	20
Silver	0.0318	0.0200	"	0.0319	0.106	20
Zinc	17.9	0.400	"	17.5	2.42	20
Selenium	ND	0.260	"	ND		20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA1304 - EPA 3050B

Matrix Spike (BIA1304-MS1)		Source: 2501401-01			Prepared: 01/29/25		Analyzed: 01/30/25				
Arsenic	47.0	0.200	mg/kg dry	47.2	3.83	91.5	75-125				
Barium	168	0.400	"	47.2	121	100	75-125				
Cadmium	2.49	0.200	"	2.36	0.207	96.6	75-125				
Copper	35.9	0.400	"	47.2	4.11	67.3	75-125				QM-05
Lead	28.6	0.200	"	23.6	5.69	96.9	75-125				
Nickel	36.5	0.400	"	47.2	4.55	67.7	75-125				QM-05
Silver	2.23	0.0200	"	2.36	0.0319	93.1	75-125				
Zinc	50.1	0.400	"	47.2	17.5	69.0	75-125				QM-05
Selenium	4.55	0.260	"	4.72	ND	96.4	75-125				

Matrix Spike Dup (BIA1304-MSD1)		Source: 2501401-01			Prepared: 01/29/25		Analyzed: 01/30/25				
Arsenic	46.3	0.200	mg/kg dry	48.7	3.83	87.1	75-125	1.56	25		
Barium	165	0.400	"	48.7	121	89.7	75-125	2.16	25		
Cadmium	2.48	0.200	"	2.44	0.207	93.4	75-125	0.113	25		
Copper	35.6	0.400	"	48.7	4.11	64.6	75-125	0.784	25		QM-05
Lead	27.9	0.200	"	24.4	5.69	91.2	75-125	2.25	25		
Nickel	36.4	0.400	"	48.7	4.55	65.3	75-125	0.359	25		QM-05
Silver	2.23	0.0200	"	2.44	0.0319	90.3	75-125	0.131	25		
Zinc	49.5	0.400	"	48.7	17.5	65.6	75-125	1.22	25		QM-05
Selenium	5.18	0.260	"	4.87	ND	106	75-125	12.9	25		

Batch BIA1305 - EPA 3050B

Blank (BIA1305-BLK1)		Prepared & Analyzed: 01/29/25									
Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA1305 - EPA 3050B

LCS (BIA1305-BS1)

Prepared & Analyzed: 01/29/25

Arsenic	35.7	0.200	mg/kg wet	40.7		87.8	80-120			
Barium	37.3	0.400	"	40.7		91.7	80-120			
Cadmium	1.86	0.200	"	2.03		91.6	80-120			
Copper	40.4	0.400	"	40.7		99.3	80-120			
Lead	18.8	0.200	"	20.3		92.5	80-120			
Nickel	39.9	0.400	"	40.7		98.1	80-120			
Silver	1.87	0.0200	"	2.03		92.2	80-120			
Zinc	39.7	0.400	"	40.7		97.6	80-120			
Selenium	4.11	0.260	"	4.07		101	80-120			

Duplicate (BIA1305-DUP1)

Source: 2412146-01

Prepared: 01/29/25 Analyzed: 01/30/25

Arsenic	1.21	0.200	mg/kg dry		1.14		6.07	20	
Barium	30.8	0.400	"		31.7		3.04	20	
Cadmium	0.106	0.200	"		0.106		0.0755	20	
Copper	2.53	0.400	"		2.38		6.28	20	
Lead	4.18	0.200	"		3.64		13.8	20	
Nickel	2.21	0.400	"		2.16		2.17	20	
Silver	0.0137	0.0200	"		0.0132		3.92	20	
Zinc	10.3	0.400	"		9.98		3.05	20	
Selenium	ND	0.260	"		ND			20	

Matrix Spike (BIA1305-MS1)

Source: 2412146-01

Prepared & Analyzed: 01/29/25

Arsenic	34.7	0.200	mg/kg dry	39.9	1.14	84.2	75-125		
Barium	67.7	0.400	"	39.9	31.7	90.1	75-125		
Cadmium	1.93	0.200	"	1.99	0.106	91.6	75-125		
Copper	31.9	0.400	"	39.9	2.38	74.0	75-125		QM-05
Lead	21.4	0.200	"	19.9	3.64	89.2	75-125		
Nickel	31.6	0.400	"	39.9	2.16	73.8	75-125		QM-05
Silver	1.76	0.0200	"	1.99	0.0132	87.4	75-125		
Zinc	39.5	0.400	"	39.9	9.98	74.1	75-125		QM-05
Selenium	3.94	0.260	"	3.99	ND	98.8	75-125		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kehn USX AA-01-16

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

Reported:
 02/12/25 08:05

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BIA1305 - EPA 3050B

Matrix Spike Dup (BIA1305-MSD1)

Source: 2412146-01

Prepared: 01/29/25 Analyzed: 01/30/25

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit
Arsenic	38.7	0.200	mg/kg dry	42.5	1.14	88.5	75-125	10.9	25
Barium	71.4	0.400	"	42.5	31.7	93.4	75-125	5.43	25
Cadmium	2.09	0.200	"	2.12	0.106	93.2	75-125	7.70	25
Copper	35.5	0.400	"	42.5	2.38	78.0	75-125	10.8	25
Lead	23.2	0.200	"	21.2	3.64	91.8	75-125	7.75	25
Nickel	35.0	0.400	"	42.5	2.16	77.3	75-125	10.3	25
Silver	1.91	0.0200	"	2.12	0.0132	89.2	75-125	8.26	25
Zinc	43.0	0.400	"	42.5	9.98	77.6	75-125	8.34	25
Selenium	4.01	0.260	"	4.25	ND	94.4	75-125	1.79	25

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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIA1318 - 3060A Mod

Blank (BIA1318-BLK1)		Prepared & Analyzed: 01/29/25								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BIA1318-BS1)		Prepared & Analyzed: 01/29/25								
Chromium, Hexavalent	27.0	0.30	mg/kg wet	25.8	105	80-120				
Duplicate (BIA1318-DUP1)		Source: 2501405-01		Prepared & Analyzed: 01/29/25						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BIA1318-MS1)		Source: 2501405-01		Prepared & Analyzed: 01/29/25						
Chromium, Hexavalent	28.9	0.30	mg/kg dry	28.4	ND	102	75-125			
Matrix Spike Dup (BIA1318-MSD1)		Source: 2501405-01		Prepared & Analyzed: 01/29/25						
Chromium, Hexavalent	26.0	0.30	mg/kg dry	26.7	ND	97.2	75-125	10.7	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-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

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

Summit Scientific

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

Batch BIA1291 - General Preparation

Blank (BIA1291-BLK1)

Prepared: 01/28/25 Analyzed: 01/30/25

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

LCS (BIA1291-BS1)

Prepared: 01/28/25 Analyzed: 01/30/25

Calcium	6.31	0.0500	mg/L wet	5.00	126	70-130				B
Magnesium	4.59	0.0500	"	5.00	91.7	70-130				
Sodium	4.63	0.0500	"	5.00	92.6	70-130				

Summit Scientific

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Project: Noble - Kehn USX AA-01-16

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

Reported:
 02/12/25 08:05

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

Summit Scientific

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

Batch BIA1303 - General Preparation

Duplicate (BIA1303-DUP1)

Source: 2501401-01

Prepared & Analyzed: 01/29/25

% Solids	84.7		%		84.1			0.670		20	
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Summit Scientific

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Fremont Environmental
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Project: Noble - Kehn USX AA-01-16
 Project Number: UWRWE-A3444-EWV
 Project Manager: Paul Henchan

Reported:
 02/12/25 08:05

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

Summit Scientific

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

Batch BIA1292 - General Preparation

Blank (BIA1292-BLK1)

Prepared: 01/28/25 Analyzed: 01/30/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIA1292-BS1)

Prepared: 01/28/25 Analyzed: 01/30/25

Specific Conductance (EC) 1.37 0.0100 mmhos/cm 1.41 97.0 95-105

Duplicate (BIA1292-DUP1)

Source: 2501401-01

Prepared: 01/28/25 Analyzed: 01/30/25

Specific Conductance (EC) 0.464 0.0100 mmhos/cm 0.466 0.425 20

Summit Scientific

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Project: Noble - Kehn USX AA-01-16

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

Reported:
 02/12/25 08:05

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

Summit Scientific

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

Batch BIA1293 - General Preparation

LCS (BIA1293-BS1)

Prepared: 01/28/25 Analyzed: 01/30/25

pH 9.14 pH Units 9.18 99.5 95-105

Duplicate (BIA1293-DUP1)

Source: 2501401-01

Prepared: 01/28/25 Analyzed: 01/30/25

pH 8.21 pH Units 8.22 0.110 20

Summit Scientific

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PO Box 1289
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Project: Noble - Kehn USX AA-01-16

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

Reported:
02/12/25 08:05

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- B Analyte detected in the associated method blank at similar concentrations.
- 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