Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

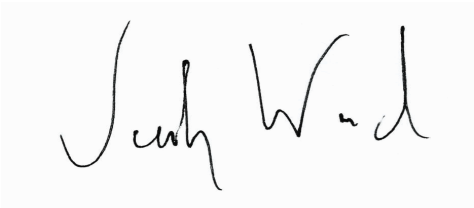
January 08, 2024

Paul Henehan
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,



Jacob Wood For Paul Shrewsbury
President

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**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

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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 Enviormental	Project Manager: Paul Henehan	Company: Noble
Address:	E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:		AFE#:
Phone: 303-261-6246	Project Name: Kehn USX AA01-16	PO/Billing Codes: WRWE-A3444-ABN
Sampler Name: Stanley Gilbert	Project Number:	Contact: Mike Montoya

				Preservative					Matrix				Analysis Requested									Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD		
1	FL01 3'	11/20/23	14:00	2			X			X			X	X	X	X	X					
2	FL05 3'	"	13:55	1			"			"			"	"	"	"	"					
3	FL06 3'	"	13:50	1			"			"			"	"	"	"	"					
4	BH6 3'	"	13:40	1			"			"						X	X					
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by:	Date/Time:	Received by:	Date/Time:
	11/20/23 16:10	Summit North	11/20/23 16:10
52	112023 1630		112023 1630
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days	
Same Day	
1 Day	
2 Days	
3 Days	
Standard	X

Field DO	
Field EC	
Field ORP	
Field pH	
Field Temp.	
Field Turb.	

Notes:

Temperature Upon Receipt: 11.9 | Corrected Temperature: C | IR gun #: 1 | HNO3 lot #:

S2

Sample Receipt Checklist S2 Work Order# 2311430

Client: Fremont Client Project ID: Kahn USX AA01-16

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [ ] Airbill #: [ ]

[ ] [-] [ ] [ ] [ ]

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.	–			ON ICE
If custody seals are present, are they intact? (1)	–			
Are samples due within 48 hours present?		–		
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		–		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	–			
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)	✓			
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)		✓		no time stamps
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column – HCl, H_2SO_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?			✓	
Additional Comments (if any):				

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

AS
Custodian Printed Name

11/20/23
Date/Time

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Henehan	**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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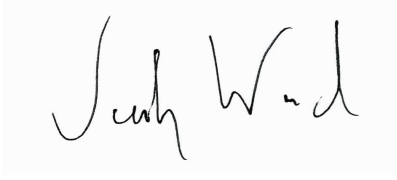

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**Reported:** 01/08/24 09:50

FL01 3'

2311430-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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FL01 3'

2311430-01 (Soil)

Summit Scientific

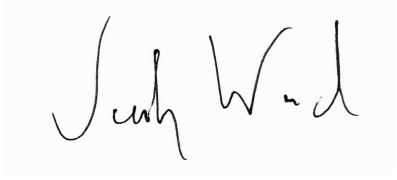
Physical Parameters by APHA/ASTM/EPA Methods

% Solids	**87.0**	%	1	BGK1033	11/28/23	11/28/23	Calculation

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	



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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 Henehan	**Reported:** 01/08/24 09:50

FL01 3'

2311430-01 (Soil)

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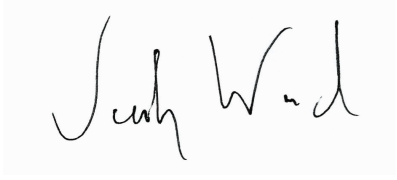
Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.40**		pH Units	1	BGL0837	12/06/23	12/21/23	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-ABN Project Manager: Paul Henehan	**Reported:** 01/08/24 09:50

FL05 3'

2311430-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

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

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

Total Metals by EPA 6020B Hot Water Soluble Extraction

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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 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 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 13:55**

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

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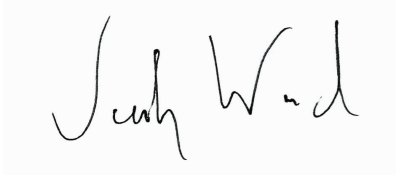

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**Reported:** 01/08/24 09:50

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	

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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

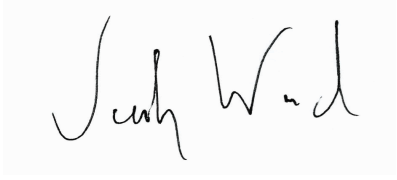
Date Sampled: **11/20/23 13:55**

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	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.3	*122 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

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 Henehan	**Reported:** 01/08/24 09:50

FL06 3'

2311430-03 (Soil)

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PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 13:50**

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 Henehan	**Reported:** 01/08/24 09:50

FL06 3'

2311430-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

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

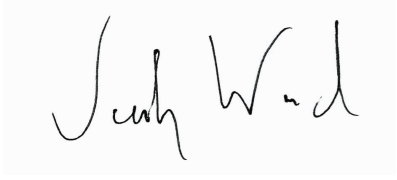
Calculated Analysis

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

FL06 3'

2311430-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

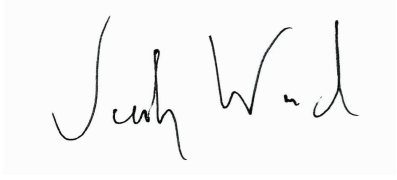
Date Sampled: **11/20/23 13:50**

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



S2

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

FL06 3'

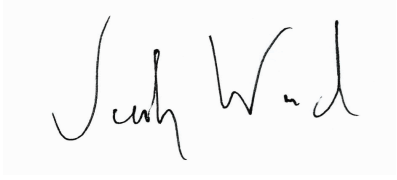
2311430-03 (Soil)

Summit Scientific

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

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

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



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**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 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 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 13:40**

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

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S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**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

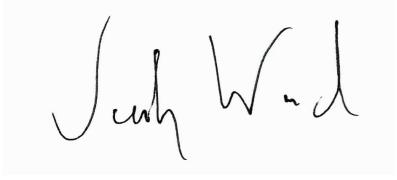
Date Sampled: **11/20/23 13:40**

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	

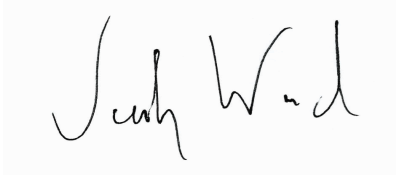


Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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 Henehan	**Reported:** 01/08/24 09:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Summit Scientific

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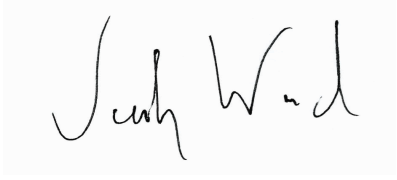
Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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



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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Summit Scientific

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

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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Summit Scientific

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

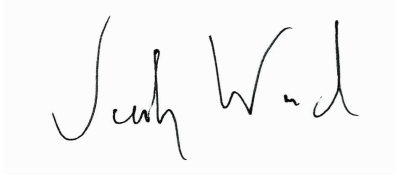
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**Reported:** 01/08/24 09:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Summit Scientific



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

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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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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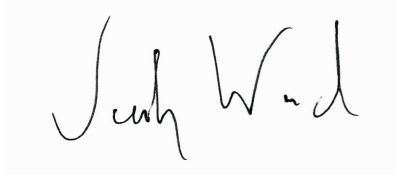
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**Reported:** 01/08/24 09:50

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

Summit Scientific

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

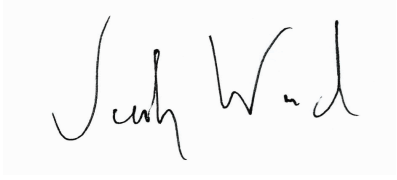


Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**Reported:** 01/08/24 09:50

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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



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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 Henehan	**Reported:** 01/08/24 09:50

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

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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 Henehan	**Reported:** 01/08/24 09:50

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

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.

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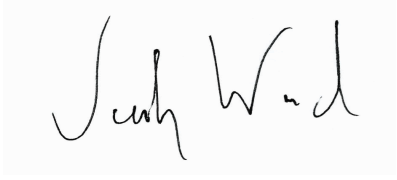
Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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



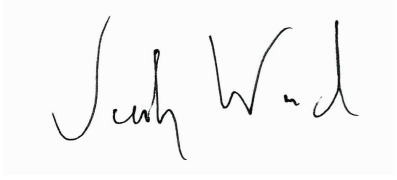
S2

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

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGK1033 - General Preparation										
Duplicate (BGK1033-DUP1)		**Source: 2311429-11**		Prepared & Analyzed: 11/28/23						
% Solids	92.8		%		92.9			0.0728	20	

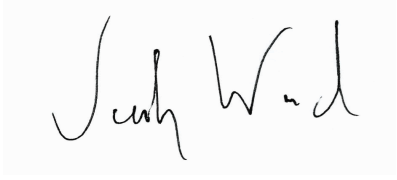


Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**Reported:** 01/08/24 09:50

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

Summit Scientific

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



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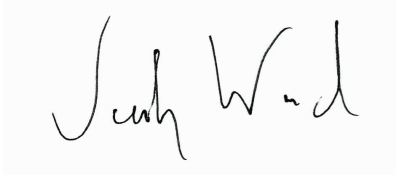
Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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			
Duplicate (BGL0193-DUP1)		**Source: 2311427-01**		Prepared & Analyzed: 12/06/23						
pH	8.17		pH Units		8.17			0.00	20	
Batch BGL0837 - General Preparation										
LCS (BGL0837-BS1)				Prepared & Analyzed: 12/21/23						
pH	9.16		pH Units	9.18		99.8	95-105			
Duplicate (BGL0837-DUP1)		**Source: 2310541-04**		Prepared & Analyzed: 12/21/23						
pH	9.10		pH Units		9.13			0.329	20	



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Kehn USX AA-01-16 Project Number: UWRWE-A3444-ABN Project Manager: Paul Henehan	**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 recomended 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