

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 28, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

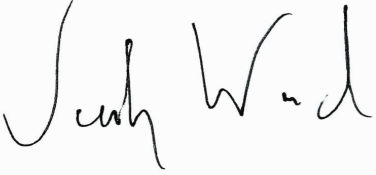
Wellington, CO 80549

RE: Noble - Egge USX A03-15D

Work Order #2308187

Enclosed are the results of analyses for samples received by Summit Scientific on 08/08/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D

Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3FT	2308187-01	Soil	08/04/23 00:00	08/08/23 16:30
FL04 2.5FT	2308187-02	Soil	08/04/23 00:00	08/08/23 16:30

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

Lab ID	Page 1 of 1
2308187	

Client: <u>Fremont</u>		Send Data To:		Send Invoice To:	
Address:		Project Manager: <u>Henehan</u>		Company: <u>Chavon</u>	
City/State/Zip:		E-Mail:		Project Name/Location:	
Phone:		Project Name: <u>Noble - Egge USX A03-15D</u>		AFE#:	
Sampler Name: <u>EB</u>		Project Number:		PO/Billing Codes: <u>UWRWE - A2524-ABN</u>	
				Contact: <u>Dan P.</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	
1	FLOI 3FT	8/4/23		1			X			X			X	X	X	X	X	
2	FLO4 2.5 FT	1		1			X			X			X	X	X	X	X	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>Eric Blah</u>	Date/Time: <u>8/8/23 9:50</u>	Received by: <u>S2</u>	Date/Time: <u>8/8/23 9:50</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>8/8/23 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/8/23 1630</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>[Signature]</u>	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>2.7</u>	Corrected Temperature: <u>6</u>	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2308187Client: FremontClient Project ID: Nobler Edge USX AOS-1SDShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

Thermometer #

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

Josh

Custodian Printed Name

08/08/23

Date/Time

3/4



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

FL01 3FT
2308187-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGH0405	08/10/23	08/11/23	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: **08/04/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0449	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0408	08/10/23	08/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.48	75.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGH0465	08/11/23	08/12/23	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: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.162	0.0100	mg/L	1	BGH0532	08/14/23	08/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Noble - Egge USX A03-15D
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Project Manager: Paul Henchan

Reported:
08/28/23 12:16

FL01 3FT
2308187-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.521	0.200	mg/kg dry	1	BGH0391	08/10/23	08/11/23	EPA 6020B
Barium	59.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.813	0.400	"	"	"	"	"	"
Nickel	1.44	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.60	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0462	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	102	0.0536	mg/L dry	1	BGH0508	08/11/23	08/14/23	EPA 6020B	
Magnesium	18.2	0.0536	"	"	"	"	"	"	
Sodium	38.1	0.0536	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.913	0.00100	units	1	BGH0580	08/15/23	08/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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08/28/23 12:16

FL01 3FT
2308187-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.3	%	1	BGH0499	08/11/23	08/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.354	0.0100	mmhos/cm	1	BGH0544	08/14/23	08/14/23	EPA 120.1	

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

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.40		pH Units	1	BGH0543	08/14/23	08/14/23	EPA 9045D	

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08/28/23 12:16

FL01 3FT
2308187-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Lead	4.85	0.200		mg/kg dry	1	BGH0817	08/10/23	08/23/23	EPA 6020B	

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Project Number: UWRWE-A2524-ABN
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Reported:
08/28/23 12:16

FL04 2.5FT
2308187-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0405	08/10/23	08/11/23	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: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	99.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0408	08/10/23	08/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.85	70.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL04 2.5FT
2308187-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0465	08/11/23	08/12/23	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: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	41.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/04/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.344	0.0100	mg/L	1	BGH0532	08/14/23	08/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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08/28/23 12:16

FL04 2.5FT
2308187-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.607	0.200	mg/kg dry	1	BGH0391	08/10/23	08/11/23	EPA 6020B
Barium	33.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.476	0.400	"	"	"	"	"	"
Lead	2.97	0.200	"	"	"	"	"	"
Nickel	1.06	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.46	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0462	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	127	0.0505	mg/L dry	1	BGH0508	08/11/23	08/14/23	EPA 6020B	
Magnesium	28.1	0.0505	"	"	"	"	"	"	
Sodium	2.46	0.0505	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0515	0.00100	units	1	BGH0580	08/15/23	08/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: UWRWE-A2524-ABN
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08/28/23 12:16

FL04 2.5FT
2308187-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	99.0		%	1	BGH0499	08/11/23	08/11/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.522	0.0100	mmhos/cm	1	BGH0544	08/14/23	08/14/23	EPA 120.1	

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

Date Sampled: **08/04/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BGH0543	08/14/23	08/14/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D

Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH0405 - EPA 5030 Soil MS

Blank (BGH0405-BLK1)

Prepared & Analyzed: 08/10/23

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	0.0478		"	0.0400		119	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	50-150			

LCS (BGH0405-BS1)

Prepared & Analyzed: 08/10/23

Benzene	0.121	0.0020	mg/kg	0.100		121	70-130			
Toluene	0.111	0.0050	"	0.100		111	70-130			
Ethylbenzene	0.118	0.0050	"	0.100		118	70-130			
m,p-Xylene	0.238	0.010	"	0.200		119	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
Naphthalene	0.0881	0.0038	"	0.100		88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	50-150			

Matrix Spike (BGH0405-MS1)

Source: 2308181-01

Prepared & Analyzed: 08/10/23

Benzene	0.132	0.0020	mg/kg	0.100	ND	132	70-130			QM-07
Toluene	0.121	0.0050	"	0.100	ND	121	70-130			
Ethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130			
m,p-Xylene	0.248	0.010	"	0.200	ND	124	70-130			
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130			
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130			
Naphthalene	0.0962	0.0038	"	0.100	ND	96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0464		"	0.0400		116	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.6	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BGH0405 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0405-MSD1)		Source: 2308181-01			Prepared & Analyzed: 08/10/23					
Benzene	0.123	0.0020	mg/kg	0.100	ND	123	70-130	6.52	30	
Toluene	0.114	0.0050	"	0.100	ND	114	70-130	5.94	30	
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	5.71	30	
m,p-Xylene	0.236	0.010	"	0.200	ND	118	70-130	5.15	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130	4.42	30	
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	5.63	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	4.83	30	
Naphthalene	0.0959	0.0038	"	0.100	ND	95.9	70-130	0.250	30	
Surrogate: 1,2-Dichloroethane-d4		0.0446	"	0.0400		111	50-150			
Surrogate: Toluene-d8		0.0408	"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene		0.0372	"	0.0400		93.0	50-150			

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Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH0408 - EPA 3550A

Blank (BGH0408-BLK1)

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.0		"	12.5		88.0	30-150			

LCS (BGH0408-BS1)

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	398	50	mg/kg	500		79.6	70-130			
Surrogate: o-Terphenyl	10.6		"	12.5		84.6	30-150			

Matrix Spike (BGH0408-MS1)

Source: 2308181-01

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	402	50	mg/kg	500	6.28	79.2	70-130			
Surrogate: o-Terphenyl	10.6		"	12.5		84.7	30-150			

Matrix Spike Dup (BGH0408-MSD1)

Source: 2308181-01

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	413	50	mg/kg	500	6.28	81.4	70-130	2.75	20	
Surrogate: o-Terphenyl	10.4		"	12.5		82.9	30-150			

Summit Scientific

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Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0465 - EPA 5030 Soil MS

Blank (BGH0465-BLK1)

Prepared: 08/11/23 Analyzed: 08/12/23

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	0.0199		"	0.0333		59.7	40-150			
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.6	40-150			

LCS (BGH0465-BS1)

Prepared: 08/11/23 Analyzed: 08/12/23

Acenaphthene	0.0213	0.00500	mg/kg	0.0333		63.9	31-137			
Anthracene	0.0216	0.00500	"	0.0333		64.8	30-120			
Benzo (a) anthracene	0.0183	0.00500	"	0.0333		54.8	30-120			
Benzo (a) pyrene	0.0208	0.00500	"	0.0333		62.5	30-120			
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333		61.7	30-120			
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333		60.4	30-120			
Chrysene	0.0228	0.00500	"	0.0333		68.3	30-120			
Dibenz (a,h) anthracene	0.0218	0.00500	"	0.0333		65.4	30-120			
Fluoranthene	0.0212	0.00500	"	0.0333		63.7	30-120			
Fluorene	0.0214	0.00500	"	0.0333		64.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333		65.3	30-120			
Pyrene	0.0248	0.00500	"	0.0333		74.5	35-142			
1-Methylnaphthalene	0.0183	0.00500	"	0.0333		54.9	35-142			
2-Methylnaphthalene	0.0221	0.00500	"	0.0333		66.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0333		68.5	40-150			
Surrogate: Fluoranthene-d10	0.0234		"	0.0333		70.2	40-150			

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Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0465 - EPA 5030 Soil MS

Matrix Spike (BGH0465-MS1)			Source: 2308180-01		Prepared: 08/11/23 Analyzed: 08/12/23					
Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.1	31-137			
Anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120			
Benzo (a) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120			
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.9	30-120			
Benzo (b) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Chrysene	0.0167	0.00500	"	0.0333	ND	50.0	30-120			
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.7	30-120			
Fluoranthene	0.0159	0.00500	"	0.0333	ND	47.8	30-120			
Fluorene	0.0162	0.00500	"	0.0333	ND	48.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.7	30-120			
Pyrene	0.0176	0.00500	"	0.0333	ND	52.8	35-142			
1-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130			
2-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333		53.8	40-150			
Surrogate: Fluoranthene-d10	0.0178		"	0.0333		53.3	40-150			

Matrix Spike Dup (BGH0465-MSD1)			Source: 2308180-01		Prepared: 08/11/23 Analyzed: 08/12/23					
Acenaphthene	0.0133	0.00500	mg/kg	0.0333	ND	40.0	31-137	11.9	30	
Anthracene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	7.60	30	
Benzo (a) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	3.51	30	
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	7.57	30	
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.4	30-120	6.97	30	
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	1.86	30	
Chrysene	0.0151	0.00500	"	0.0333	ND	45.4	30-120	9.70	30	
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	14.8	30	
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.5	30-120	11.8	30	
Fluorene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	6.52	30	
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	11.7	30	
Pyrene	0.0142	0.00500	"	0.0333	ND	42.7	35-142	21.2	30	
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	47.9	15-130	6.80	50	
2-Methylnaphthalene	0.0152	0.00500	"	0.0333	ND	45.7	15-130	6.61	50	
Surrogate: 2-Methylnaphthalene-d10	0.0137		"	0.0333		41.1	40-150			
Surrogate: Fluoranthene-d10	0.0149		"	0.0333		44.8	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

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

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

Batch BGH0532 - EPA 3050B

Blank (BGH0532-BLK1)

Prepared: 08/14/23 Analyzed: 08/15/23

Boron ND 0.0100 mg/L

LCS (BGH0532-BS1)

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 4.72 0.0100 mg/L 5.00 94.4 80-120

Duplicate (BGH0532-DUP1)

Source: 2308167-05

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 0.482 0.0100 mg/L 0.518 7.30 20

Matrix Spike (BGH0532-MS1)

Source: 2308167-05

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 5.12 0.0100 mg/L 5.00 0.518 92.1 75-125

Matrix Spike Dup (BGH0532-MSD1)

Source: 2308167-05

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 5.18 0.0100 mg/L 5.00 0.518 93.1 75-125 1.01 25

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Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0391 - EPA 3050B

Blank (BGH0391-BLK1)

Prepared & Analyzed: 08/10/23

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 (BGH0391-BS1)

Prepared & Analyzed: 08/10/23

Arsenic	39.3	0.200	mg/kg wet	40.0	98.3	80-120
Barium	37.9	0.400	"	40.0	94.8	80-120
Cadmium	1.97	0.200	"	2.00	98.3	80-120
Copper	35.3	0.400	"	40.0	88.2	80-120
Lead	18.3	0.200	"	20.0	91.5	80-120
Nickel	35.8	0.400	"	40.0	89.6	80-120
Silver	1.93	0.0200	"	2.00	96.7	80-120
Zinc	37.1	0.400	"	40.0	92.6	80-120

Duplicate (BGH0391-DUP1)

Source: 2307450-01

Prepared & Analyzed: 08/10/23

Arsenic	1.16	0.200	mg/kg wet	1.13	2.41	20
Barium	140	0.400	"	142	1.61	20
Cadmium	0.177	0.200	"	0.186	4.63	20
Copper	1.51	0.400	"	1.54	2.15	20
Lead	6.65	0.200	"	6.90	3.71	20
Nickel	2.59	0.400	"	2.63	1.52	20
Silver	0.0468	0.0200	"	0.0508	8.20	20
Zinc	9.30	0.400	"	9.43	1.32	20
Selenium	ND	0.260	"	ND		200

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Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0391 - EPA 3050B

Matrix Spike (BGH0391-MS1)			Source: 2307450-01		Prepared & Analyzed: 08/10/23						
Arsenic	9.85	0.200	mg/kg wet	40.0	1.13	21.8	75-125				QM-07
Barium	188	0.400	"	40.0	142	113	75-125				
Cadmium	1.97	0.200	"	2.00	0.186	89.4	75-125				
Copper	9.53	0.400	"	40.0	1.54	20.0	75-125				QM-07
Lead	21.5	0.200	"	20.0	6.90	72.8	75-125				QM-07
Nickel	10.9	0.400	"	40.0	2.63	20.6	75-125				QM-07
Silver	1.79	0.0200	"	2.00	0.0508	86.8	75-125				
Zinc	17.6	0.400	"	40.0	9.43	20.5	75-125				QM-07

Matrix Spike Dup (BGH0391-MSD1)			Source: 2307450-01		Prepared & Analyzed: 08/10/23						
Arsenic	9.96	0.200	mg/kg wet	40.0	1.13	22.1	75-125	1.16	25		QM-07
Barium	186	0.400	"	40.0	142	110	75-125	0.845	25		
Cadmium	1.94	0.200	"	2.00	0.186	88.0	75-125	1.43	25		
Copper	9.58	0.400	"	40.0	1.54	20.1	75-125	0.553	25		QM-07
Lead	21.4	0.200	"	20.0	6.90	72.6	75-125	0.179	25		QM-07
Nickel	10.9	0.400	"	40.0	2.63	20.7	75-125	0.0257	25		QM-07
Silver	1.77	0.0200	"	2.00	0.0508	86.0	75-125	0.855	25		
Zinc	17.6	0.400	"	40.0	9.43	20.4	75-125	0.302	25		QM-07

Batch BGH0817 - EPA 3050B

Blank (BGH0817-BLK1)			Prepared: 08/21/23 Analyzed: 08/23/23								
Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

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Wellington CO, 80549

Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0817 - EPA 3050B

LCS (BGH0817-BS1)

Prepared: 08/21/23 Analyzed: 08/23/23

Arsenic	39.6	0.200	mg/kg wet	40.0		98.9	80-120			
Barium	43.1	0.400	"	40.0		108	80-120			
Cadmium	2.13	0.200	"	2.00		107	80-120			
Copper	36.2	0.400	"	40.0		90.4	80-120			
Lead	21.3	0.200	"	20.0		107	80-120			
Nickel	37.7	0.400	"	40.0		94.3	80-120			
Silver	2.07	0.0200	"	2.00		104	80-120			
Zinc	40.0	0.400	"	40.0		100	80-120			

Duplicate (BGH0817-DUP1)

Source: 2308407-01

Prepared: 08/21/23 Analyzed: 08/23/23

Arsenic	0.528	0.200	mg/kg dry		0.629			17.3	20	
Barium	38.1	0.400	"		52.0			30.8	20	QR-01, QR-04
Cadmium	0.0781	0.200	"		0.102			26.8	20	QR-01
Copper	0.829	0.400	"		10.5			171	20	QR-01
Lead	3.47	0.200	"		6.50			60.8	20	QR-04
Nickel	1.12	0.400	"		1.31			15.6	20	
Silver	0.0110	0.0200	"		0.0250			77.6	20	QR-01
Zinc	4.73	0.400	"		12.8			92.2	20	QR-04
Selenium	ND	0.260	"		ND				200	

Matrix Spike (BGH0817-MS1)

Source: 2308407-01

Prepared: 08/21/23 Analyzed: 08/23/23

Arsenic	14.1	0.200	mg/kg dry	42.4	0.629	31.7	75-125			QM-01
Barium	91.6	0.400	"	42.4	52.0	93.3	75-125			
Cadmium	2.26	0.200	"	2.12	0.102	102	75-125			
Copper	13.8	0.400	"	42.4	10.5	7.72	75-125			QM-01
Lead	24.5	0.200	"	21.2	6.50	85.0	75-125			
Nickel	14.7	0.400	"	42.4	1.31	31.5	75-125			QM-01
Silver	2.10	0.0200	"	2.12	0.0250	97.8	75-125			
Zinc	19.6	0.400	"	42.4	12.8	15.9	75-125			QM-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0817 - EPA 3050B

Matrix Spike Dup (BGH0817-MSD1)	Source: 2308407-01			Prepared: 08/21/23 Analyzed: 08/23/23						
Arsenic	14.4	0.200	mg/kg dry	42.4	0.629	32.4	75-125	1.86	25	QM-01
Barium	95.5	0.400	"	42.4	52.0	103	75-125	4.21	25	
Cadmium	2.37	0.200	"	2.12	0.102	107	75-125	4.40	25	
Copper	14.0	0.400	"	42.4	10.5	8.15	75-125	1.33	25	QM-01
Lead	25.3	0.200	"	21.2	6.50	88.5	75-125	3.01	25	
Nickel	14.8	0.400	"	42.4	1.31	31.8	75-125	0.866	25	QM-01
Silver	2.18	0.0200	"	2.12	0.0250	102	75-125	3.71	25	
Zinc	19.9	0.400	"	42.4	12.8	16.8	75-125	1.87	25	QM-01

Summit Scientific

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Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0462 - 3060A Mod

Blank (BGH0462-BLK1)

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0462-BS1)

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 25.8 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BGH0462-DUP1)

Source: 2308038-08

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0462-MS1)

Source: 2308038-08

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 31.6 0.30 mg/kg dry 31.2 ND 101 75-125

Matrix Spike Dup (BGH0462-MSD1)

Source: 2308038-08

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 32.6 0.30 mg/kg dry 31.2 ND 104 75-125 2.92 20

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

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

Summit Scientific

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

Batch BGH0508 - General Preparation

Blank (BGH0508-BLK1)

Prepared: 08/11/23 Analyzed: 08/14/23

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

LCS (BGH0508-BS1)

Prepared: 08/11/23 Analyzed: 08/14/23

Calcium	5.10	0.0500	mg/L wet	5.00	102	70-130
Magnesium	5.74	0.0500	"	5.00	115	70-130
Sodium	5.99	0.0500	"	5.00	120	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Egge USX A03-15D	
PO Box 1289	Project Number: UWRWE-A2524-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/28/23 12:16

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

Summit Scientific

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

Batch BGH0499 - General Preparation

Duplicate (BGH0499-DUP1)	Source: 2308182-01	Prepared & Analyzed: 08/11/23
% Solids	81.4	% 80.2 1.44 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D
Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

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

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

Batch BGH0544 - General Preparation

Blank (BGH0544-BLK1)

Prepared & Analyzed: 08/14/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0544-BS1)

Prepared & Analyzed: 08/14/23

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

Duplicate (BGH0544-DUP1)

Source: 2308187-01

Prepared & Analyzed: 08/14/23

Specific Conductance (EC) 0.345 0.0100 mmhos/cm 0.354 2.54 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D

Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

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

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

Batch BGH0543 - General Preparation

LCS (BGH0543-BS1)

Prepared & Analyzed: 08/14/23

pH	9.01	pH Units	9.18	98.1	95-105
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Duplicate (BGH0543-DUP1)

Source: 2308187-01

Prepared & Analyzed: 08/14/23

pH	7.43	pH Units	7.40	0.405	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Egge USX A03-15D

Project Number: UWRWE-A2524-ABN
Project Manager: Paul Henchan

Reported:
08/28/23 12:16

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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