

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 26, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Bernard Tank
Work Order #2310294

Enclosed are the results of analyses for samples received by Summit Scientific on 10/16/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

ANALYTICAL REPORT FOR SAMPLES

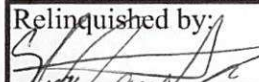
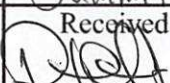

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST 0.5'	2310294-01	Soil	10/13/23 12:03	10/16/23 16:30
PWV FLOOR 4'	2310294-02	Soil	10/13/23 12:08	10/16/23 16:30
SEP DL 3'	2310294-03	Soil	10/13/23 11:54	10/16/23 16:30
BKG01 0.5'	2310294-04	Soil	10/13/23 12:20	10/16/23 16:30
BKG01 3'	2310294-05	Soil	10/13/23 12:25	10/16/23 16:30
BKG01 4'	2310294-06	Soil	10/13/23 12:30	10/16/23 16:30
BKG02 0.5'	2310294-07	Soil	10/13/23 12:35	10/16/23 16:30
BKG02 3'	2310294-08	Soil	10/13/23 12:40	10/16/23 16:30
BKG02 4'	2310294-09	Soil	10/13/23 12:45	10/16/23 16:30
BKG03 0.5'	2310294-10	Soil	10/13/23 12:50	10/16/23 16:30
BKG03 3'	2310294-11	Soil	10/13/23 12:55	10/16/23 16:30
BKG03 4'	2310294-12	Soil	10/13/23 13:00	10/16/23 16:30
BKG04 0.5'	2310294-13	Soil	10/13/23 13:05	10/16/23 16:30
BKG04 3'	2310294-14	Soil	10/13/23 13:10	10/16/23 16:30
BKG04 4'	2310294-15	Soil	10/13/23 13:15	10/16/23 16:30
BKG05 0.5'	2310294-16	Soil	10/13/23 13:20	10/16/23 16:30
BKG05 3'	2310294-17	Soil	10/13/23 13:25	10/16/23 16:30
BKG05 4'	2310294-18	Soil	10/13/23 13:30	10/16/23 16:30

Summit Scientific

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

		Send Data To:		Send Invoice To:	
Client: Fremont Environmental		Project Manager: Paul Henehan		Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: <u>Bernard TANK</u>	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: <u>Bernard Tank</u>		PO/Billing Codes: <u>UWRWE-A3126-ABN</u>	
Sampler Name: Stanley Gilbert		Project Number:		Contact: <u>Mike Montoya</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, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	AST 0.5'	10/13/23	12:03	2			X			X			X	X	X	X			
2	PWV Floor 4'		12:08	1						X									
3	SEP DL 3'		11:54	1															
4	BKG01 0.5'		12:20	1												X	X		
5	BKG01 3'		12:25	1															
6	BKG01 4'		12:30	1															
7	BKG02 0.5'		12:35	1															
8	BKG02 3'		12:40	1															
9	BKG02 4'		12:45	1															
10	BKG03 0.5'		12:50	1															
11	BKG03 3'		12:55	1															
12	BKG03 4'		13:00	1															
13	BKG04 0.5'		13:05	1															
14	BKG04 3'		13:10	1															
15	BKG04 4'		13:15	1															

Relinquished by: 	Date/Time: 10/13/23 17:40	Received by: Summit North	Date/Time: 10/13/23 17:40	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: 52	Date/Time: 10/16/23 1630	Received by: 	Date/Time: 10/16/23 1630	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 7.3	Corrected Temperature: 	IR gun #: 1	HNO3 lot #:			



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

Lab ID	Page 2 of 2
2310294.2	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Bernard Tank
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Bernard TANK	PO/Billing Codes: UWRWE-A3126-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

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, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	BKG05 0.5'	10/13/23	13:20	1			X			X					X	X			
2	BKG05 3'	I	13:25	I			I			I					I	I			
3	BKG05 4'	I	13:30	I			I			I					I	I			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 10/13/23 17:40	Received by: Summit North	Date/Time: 10/13/23 17:40	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: SL	Date/Time: 10/16/23 16:30	Received by:	Date/Time: 10/16/23 16:30	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 7.3	Corrected Temperature:	IR gun #: 1	HNO3 lot #:			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2310294

Client: Freemont

Client Project ID: Bernard Tank

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C) 7.3

Thermometer # 1

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

AS

Custodian Printed Name

10/16/23
Date/Time

0000



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

AST 0.5'
2310294-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0676	10/17/23	10/18/23	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: **10/13/23 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0430	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0370	92.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0359	89.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0677	10/17/23	10/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.8	94.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

AST 0.5'
2310294-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0660	10/17/23	10/18/23	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: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0297	89.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	56.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:03**

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 - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

AST 0.5'
2310294-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.73	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B
Barium	48.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.84	0.400	"	"	"	"	"	"
Lead	6.28	0.200	"	"	"	"	"	"
Nickel	2.60	0.400	"	"	"	"	"	"
Silver	0.0269	0.0200	"	"	"	"	"	"
Zinc	17.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.7	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	26.5	0.0500	"	"	"	"	"	"	
Sodium	22.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.615	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2310294-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.754	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

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Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

PWV FLOOR 4'
2310294-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0676	10/17/23	10/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0426	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0373	93.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0360	90.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0677	10/17/23	10/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.7	126 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Bernard Tank

Project Number: [none]
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PWV FLOOR 4'
2310294-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0660	10/17/23	10/18/23	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: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0267	80.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:08**

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

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

PWV FLOOR 4'
2310294-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.73	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B	
Barium	55.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.38	0.400	"	"	"	"	"	"	
Lead	6.31	0.200	"	"	"	"	"	"	
Nickel	2.78	0.400	"	"	"	"	"	"	
Silver	0.0290	0.0200	"	"	"	"	"	"	
Zinc	14.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.8	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	11.3	0.0500	"	"	"	"	"	"	
Sodium	16.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.614	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

PWV FLOOR 4'
2310294-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:08**

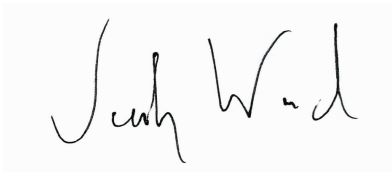
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.361	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

SEP DL 3'
2310294-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0676	10/17/23	10/18/23	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: **10/13/23 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0380	95.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0358	89.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0677	10/17/23	10/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.3	131 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

SEP DL 3'
2310294-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0660	10/17/23	10/18/23	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: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0230	69.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0148	44.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 11:54**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

SEP DL 3'
2310294-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.81	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B
Barium	56.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.41	0.400	"	"	"	"	"	"
Lead	17.6	0.200	"	"	"	"	"	"
Nickel	2.98	0.400	"	"	"	"	"	"
Silver	0.0333	0.0200	"	"	"	"	"	"
Zinc	27.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.7	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	14.9	0.0500	"	"	"	"	"	"	
Sodium	43.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.46	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

SEP DL 3'
2310294-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 11:54**

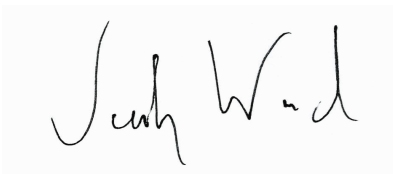
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.635	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG01 0.5'
2310294-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.61	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B	
Barium	44.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.47	0.400	"	"	"	"	"	"	
Lead	6.14	0.200	"	"	"	"	"	"	
Nickel	2.28	0.400	"	"	"	"	"	"	
Silver	0.0235	0.0200	"	"	"	"	"	"	
Zinc	16.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	55.3	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	28.8	0.0500	"	"	"	"	"	"	
Sodium	21.9	0.0500	"	"	"	"	"	"	

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 - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG01 0.5'
2310294-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.595	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.780	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

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 - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG01 3'
2310294-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.96	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B	
Barium	58.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.16	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	2.60	0.400	"	"	"	"	"	"	
Silver	0.0358	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	72.7	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	28.2	0.0500	"	"	"	"	"	"	
Sodium	73.1	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG01 3'
2310294-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.84	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.02	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG01 4'
2310294-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.85	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B	
Barium	54.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.66	0.400	"	"	"	"	"	"	
Lead	6.70	0.200	"	"	"	"	"	"	
Nickel	2.85	0.400	"	"	"	"	"	"	
Silver	0.0471	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	39.2	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	16.3	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG01 4'
2310294-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.585	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.422	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG02 0.5'
2310294-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.18	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B	
Barium	51.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.73	0.400	"	"	"	"	"	"	
Lead	7.07	0.200	"	"	"	"	"	"	
Nickel	2.39	0.400	"	"	"	"	"	"	
Silver	0.0318	0.0200	"	"	"	"	"	"	
Zinc	17.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	76.3	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	33.1	0.0500	"	"	"	"	"	"	
Sodium	19.8	0.0500	"	"	"	"	"	"	

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 - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG02 0.5'
2310294-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.477	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.926	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG02 3'
2310294-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.25	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B	
Barium	53.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.57	0.400	"	"	"	"	"	"	
Lead	13.3	0.200	"	"	"	"	"	"	
Nickel	2.89	0.400	"	"	"	"	"	"	
Silver	0.0332	0.0200	"	"	"	"	"	"	
Zinc	31.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	52.1	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	18.9	0.0500	"	"	"	"	"	"	
Sodium	51.9	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG02 3'
2310294-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.57	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.726	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG02 4'
2310294-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.98	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/25/23	EPA 6020B	
Barium	59.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.05	0.400	"	"	"	"	"	"	
Lead	6.57	0.200	"	"	"	"	"	"	
Nickel	3.10	0.400	"	"	"	"	"	"	
Silver	0.0291	0.0200	"	"	"	"	"	"	
Zinc	16.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	40.7	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	13.9	0.0500	"	"	"	"	"	"	
Sodium	21.0	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG02 4'
2310294-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.725	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.487	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG03 0.5'
2310294-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.73	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	48.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.88	0.400	"	"	"	"	"	"	
Lead	7.50	0.200	"	"	"	"	"	"	
Nickel	2.44	0.400	"	"	"	"	"	"	
Silver	0.0299	0.0200	"	"	"	"	"	"	
Zinc	17.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	80.6	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	40.5	0.0500	"	"	"	"	"	"	
Sodium	25.6	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG03 0.5'
2310294-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.581	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.05	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG03 3'
2310294-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.71	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	16.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.96	0.400	"	"	"	"	"	"	
Lead	2.83	0.200	"	"	"	"	"	"	
Nickel	1.19	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.82	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	18.3	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	6.12	0.0500	"	"	"	"	"	"	
Sodium	18.0	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG03 3'
2310294-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.930	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.248	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG03 4'
2310294-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.77	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	54.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.47	0.400	"	"	"	"	"	"	
Lead	6.34	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	0.0281	0.0200	"	"	"	"	"	"	
Zinc	14.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	36.7	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	14.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG03 4'
2310294-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.536	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.0		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.408	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

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 - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG04 0.5'
2310294-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.47	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	41.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.25	0.400	"	"	"	"	"	"	
Lead	10.3	0.200	"	"	"	"	"	"	
Nickel	2.14	0.400	"	"	"	"	"	"	
Silver	0.0212	0.0200	"	"	"	"	"	"	
Zinc	15.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	51.0	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	20.9	0.0500	"	"	"	"	"	"	
Sodium	12.9	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG04 0.5'
2310294-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.384	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.624	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG04 3'
2310294-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.59	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	62.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.69	0.400	"	"	"	"	"	"	
Lead	6.33	0.200	"	"	"	"	"	"	
Nickel	3.30	0.400	"	"	"	"	"	"	
Silver	0.0348	0.0200	"	"	"	"	"	"	
Zinc	15.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	299	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	98.4	0.0500	"	"	"	"	"	"	
Sodium	2.91	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG04 3'
2310294-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0373	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0574	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.79		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG04 4'
2310294-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.26	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	79.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.43	0.400	"	"	"	"	"	"	
Lead	6.52	0.200	"	"	"	"	"	"	
Nickel	3.23	0.400	"	"	"	"	"	"	
Silver	0.0274	0.0200	"	"	"	"	"	"	
Zinc	15.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	35.0	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	11.2	0.0500	"	"	"	"	"	"	
Sodium	16.2	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG04 4'
2310294-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.610	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.407	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG05 0.5'
2310294-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.86	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	48.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.03	0.400	"	"	"	"	"	"	
Lead	15.1	0.200	"	"	"	"	"	"	
Nickel	2.65	0.400	"	"	"	"	"	"	
Silver	0.0276	0.0200	"	"	"	"	"	"	
Zinc	19.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	48.0	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	19.0	0.0500	"	"	"	"	"	"	
Sodium	12.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG05 0.5'
2310294-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.383	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.585	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG05 3'
2310294-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.72	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	75.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.57	0.400	"	"	"	"	"	"	
Lead	6.77	0.200	"	"	"	"	"	"	
Nickel	3.89	0.400	"	"	"	"	"	"	
Silver	0.0314	0.0200	"	"	"	"	"	"	
Zinc	16.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	316	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	88.2	0.0500	"	"	"	"	"	"	
Sodium	2.79	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG05 3'
2310294-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0358	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.230	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.55		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

BKG05 4'
2310294-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ0874	10/23/23	10/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.18	0.200	mg/kg dry	1	BGJ0879	10/23/23	10/26/23	EPA 6020B	
Barium	70.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.67	0.400	"	"	"	"	"	"	
Lead	6.60	0.200	"	"	"	"	"	"	
Nickel	3.30	0.400	"	"	"	"	"	"	
Silver	0.0316	0.0200	"	"	"	"	"	"	
Zinc	17.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0883	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	43.7	0.0500	mg/L dry	1	BGJ0841	10/20/23	10/24/23	EPA 6020B	
Magnesium	14.6	0.0500	"	"	"	"	"	"	
Sodium	24.7	0.0500	"	"	"	"	"	"	

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 - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

BKG05 4'
2310294-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.826	0.00100	units	1	BGJ0978	10/25/23	10/25/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BGJ0940	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.503	0.0100	mmhos/cm	1	BGJ0897	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/13/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BGJ0896	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ0676 - EPA 5030 Soil MS

Blank (BGJ0676-BLK1)

Prepared & Analyzed: 10/17/23

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0472		"	0.0400		118	50-150			
<i>Surrogate: Toluene-d8</i>	0.0385		"	0.0400		96.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0378		"	0.0400		94.6	50-150			

LCS (BGJ0676-BS1)

Prepared & Analyzed: 10/17/23

Benzene	0.144	0.0020	mg/kg	0.150		96.0	70-130			
Toluene	0.132	0.0050	"	0.150		88.1	70-130			
Ethylbenzene	0.150	0.0050	"	0.150		100	70-130			
m,p-Xylene	0.302	0.010	"	0.300		101	70-130			
o-Xylene	0.145	0.0050	"	0.150		96.3	70-130			
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.150		98.4	70-130			
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.150		101	70-130			
Naphthalene	0.116	0.0038	"	0.150		77.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0424		"	0.0400		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0373		"	0.0400		93.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0385		"	0.0400		96.2	50-150			

Matrix Spike (BGJ0676-MS1)

Source: 2310251-01

Prepared & Analyzed: 10/17/23

Benzene	0.162	0.0020	mg/kg	0.150	ND	108	70-130			
Toluene	0.150	0.0050	"	0.150	ND	100	70-130			
Ethylbenzene	0.172	0.0050	"	0.150	ND	115	70-130			
m,p-Xylene	0.345	0.010	"	0.300	ND	115	70-130			
o-Xylene	0.163	0.0050	"	0.150	ND	109	70-130			
1,2,4-Trimethylbenzene	0.163	0.0050	"	0.150	ND	109	70-130			
1,3,5-Trimethylbenzene	0.165	0.0050	"	0.150	ND	110	70-130			
Naphthalene	0.136	0.0038	"	0.150	ND	90.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0412		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0370		"	0.0400		92.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.6	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ0676 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0676-MSD1)	Source: 2310251-01			Prepared & Analyzed: 10/17/23						
Benzene	0.158	0.0020	mg/kg	0.150	ND	105	70-130	2.44	30	
Toluene	0.147	0.0050	"	0.150	ND	98.0	70-130	2.28	30	
Ethylbenzene	0.158	0.0050	"	0.150	ND	105	70-130	8.40	30	
m,p-Xylene	0.319	0.010	"	0.300	ND	106	70-130	7.66	30	
o-Xylene	0.150	0.0050	"	0.150	ND	100	70-130	8.15	30	
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.150	ND	98.8	70-130	9.56	30	
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.150	ND	101	70-130	8.35	30	
Naphthalene	0.134	0.0038	"	0.150	ND	89.6	70-130	1.29	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0436</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.1</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.3</i>	<i>50-150</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGJ0677 - EPA 3550A

Blank (BGJ0677-BLK1)

Prepared: 10/17/23 Analyzed: 10/18/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.60		"	12.5		76.8	30-150				

LCS (BGJ0677-BS1)

Prepared: 10/17/23 Analyzed: 10/18/23

C10-C28 (DRO)	495	50	mg/kg	500		99.1	70-130				
Surrogate: <i>o</i> -Terphenyl	17.9		"	12.5		143	30-150				

Matrix Spike (BGJ0677-MS1)

Source: 2310251-01

Prepared: 10/17/23 Analyzed: 10/18/23

C10-C28 (DRO)	498	50	mg/kg	500	ND	99.6	70-130				
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		111	30-150				

Matrix Spike Dup (BGJ0677-MSD1)

Source: 2310251-01

Prepared: 10/17/23 Analyzed: 10/18/23

C10-C28 (DRO)	528	50	mg/kg	500	ND	106	70-130	5.86	20		
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ0660 - EPA 5030 Soil MS

Blank (BGJ0660-BLK1)

Prepared & Analyzed: 10/17/23

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0390</i>		"	<i>0.0333</i>		<i>117</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0250</i>		"	<i>0.0333</i>		<i>75.1</i>		<i>40-150</i>		

LCS (BGJ0660-BS1)

Prepared & Analyzed: 10/17/23

Acenaphthene	0.0261	0.00500	mg/kg	0.0333		78.4		31-137		
Anthracene	0.0255	0.00500	"	0.0333		76.4		30-120		
Benzo (a) anthracene	0.0100	0.00500	"	0.0333		30.1		30-120		
Benzo (a) pyrene	0.0236	0.00500	"	0.0333		70.8		30-120		
Benzo (b) fluoranthene	0.0237	0.00500	"	0.0333		71.2		30-120		
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333		79.7		30-120		
Chrysene	0.0245	0.00500	"	0.0333		73.4		30-120		
Dibenz (a,h) anthracene	0.0237	0.00500	"	0.0333		71.0		30-120		
Fluoranthene	0.0259	0.00500	"	0.0333		77.7		30-120		
Fluorene	0.0260	0.00500	"	0.0333		78.1		30-120		
Indeno (1,2,3-cd) pyrene	0.0241	0.00500	"	0.0333		72.3		30-120		
Pyrene	0.0253	0.00500	"	0.0333		75.9		35-142		
1-Methylnaphthalene	0.0199	0.00500	"	0.0333		59.7		35-142		
2-Methylnaphthalene	0.0241	0.00500	"	0.0333		72.4		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0245</i>		"	<i>0.0333</i>		<i>73.5</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0259</i>		"	<i>0.0333</i>		<i>77.8</i>		<i>40-150</i>		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ0660 - EPA 5030 Soil MS

Matrix Spike (BGJ0660-MS1)

Source: 2310255-01

Prepared & Analyzed: 10/17/23

Acenaphthene	0.0208	0.00500	mg/kg	0.0333	ND	62.4	31-137			
Anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	ND	47.4	30-120			
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.8	30-120			
Benzo (b) fluoranthene	0.0160	0.00500	"	0.0333	ND	47.9	30-120			
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.3	30-120			
Chrysene	0.0207	0.00500	"	0.0333	ND	62.0	30-120			
Dibenz (a,h) anthracene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Fluoranthene	0.0187	0.00500	"	0.0333	ND	56.1	30-120			
Fluorene	0.0193	0.00500	"	0.0333	ND	58.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	30-120			
Pyrene	0.0217	0.00500	"	0.0333	ND	65.2	35-142			
1-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.1	15-130			
2-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	50.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.8	40-150			
Surrogate: Fluoranthene-d10	0.0187		"	0.0333		56.1	40-150			

Matrix Spike Dup (BGJ0660-MSD1)

Source: 2310255-01

Prepared & Analyzed: 10/17/23

Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.8	31-137	2.59	30	
Anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	2.62	30	
Benzo (a) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	5.15	30	
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	8.06	30	
Benzo (b) fluoranthene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	13.6	30	
Benzo (k) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	9.93	30	
Chrysene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	1.01	30	
Dibenz (a,h) anthracene	0.0161	0.00500	"	0.0333	ND	48.2	30-120	1.47	30	
Fluoranthene	0.0197	0.00500	"	0.0333	ND	59.1	30-120	5.22	30	
Fluorene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	5.97	30	
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333	ND	65.4	30-120	0.800	30	
Pyrene	0.0209	0.00500	"	0.0333	ND	62.7	35-142	3.89	30	
1-Methylnaphthalene	0.0165	0.00500	"	0.0333	ND	49.4	15-130	0.587	50	
2-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.6	15-130	6.86	50	
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.7	40-150			
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.3	40-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

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

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

Batch BGJ0874 - EPA 3050B

Blank (BGJ0874-BLK1)

Prepared: 10/23/23 Analyzed: 10/24/23

Boron ND 2.00 mg/L

LCS (BGJ0874-BS1)

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 4.08 2.00 mg/L 5.00 81.6 80-120

Duplicate (BGJ0874-DUP1)

Source: 2310294-01

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 0.136 2.00 mg/L 0.159 15.1 20

Matrix Spike (BGJ0874-MS1)

Source: 2310294-01

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 4.06 2.00 mg/L 5.00 0.159 78.0 75-125

Matrix Spike Dup (BGJ0874-MSD1)

Source: 2310294-01

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 4.19 2.00 mg/L 5.00 0.159 80.6 75-125 3.14 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0879 - EPA 3050B

Blank (BGJ0879-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

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 (BGJ0879-BS1)

Prepared: 10/23/23 Analyzed: 10/25/23

Arsenic	42.7	0.200	mg/kg wet	40.0		107	80-120
Barium	42.3	0.400	"	40.0		106	80-120
Cadmium	1.81	0.200	"	2.00		90.4	80-120
Copper	36.9	0.400	"	40.0		92.4	80-120
Lead	19.1	0.200	"	20.0		95.4	80-120
Nickel	37.1	0.400	"	40.0		92.7	80-120
Silver	1.82	0.0200	"	2.00		90.9	80-120
Zinc	36.0	0.400	"	40.0		90.1	80-120
Selenium	4.08	0.260	"	4.00		102	80-120

Duplicate (BGJ0879-DUP1)

Source: 2310294-01

Prepared: 10/23/23 Analyzed: 10/25/23

Arsenic	1.74	0.200	mg/kg dry	1.73		0.992	20
Barium	49.0	0.400	"	48.0		2.13	20
Cadmium	0.135	0.200	"	0.134		0.623	20
Copper	3.88	0.400	"	3.84		0.870	20
Lead	6.31	0.200	"	6.28		0.460	20
Nickel	2.54	0.400	"	2.60		2.17	20
Silver	0.0256	0.0200	"	0.0269		4.80	20
Zinc	17.6	0.400	"	17.9		1.90	20
Selenium	ND	0.260	"	ND			20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0879 - EPA 3050B

Matrix Spike (BGJ0879-MS1)	Source: 2310294-01			Prepared: 10/23/23		Analyzed: 10/25/23					
Arsenic	45.5	0.200	mg/kg dry	42.0	1.73	104	75-125				
Barium	89.7	0.400	"	42.0	48.0	99.5	75-125				
Cadmium	2.01	0.200	"	2.10	0.134	89.6	75-125				
Copper	31.4	0.400	"	42.0	3.84	65.7	75-125				QM-05
Lead	27.5	0.200	"	21.0	6.28	101	75-125				
Nickel	31.1	0.400	"	42.0	2.60	67.9	75-125				QM-05
Silver	1.88	0.0200	"	2.10	0.0269	88.1	75-125				
Zinc	45.6	0.400	"	42.0	17.9	66.1	75-125				QM-05
Selenium	6.29	0.260	"	4.20	ND	150	75-125				QM-05

Matrix Spike Dup (BGJ0879-MSD1)	Source: 2310294-01			Prepared: 10/23/23		Analyzed: 10/25/23					
Arsenic	46.9	0.200	mg/kg dry	42.0	1.73	108	75-125	3.03	25		
Barium	90.5	0.400	"	42.0	48.0	101	75-125	0.901	25		
Cadmium	2.06	0.200	"	2.10	0.134	91.9	75-125	2.33	25		
Copper	31.9	0.400	"	42.0	3.84	66.8	75-125	1.43	25		QM-05
Lead	28.1	0.200	"	21.0	6.28	104	75-125	1.84	25		
Nickel	31.5	0.400	"	42.0	2.60	69.0	75-125	1.39	25		QM-05
Silver	1.93	0.0200	"	2.10	0.0269	90.7	75-125	2.80	25		
Zinc	46.1	0.400	"	42.0	17.9	67.1	75-125	0.935	25		QM-05
Selenium	6.77	0.260	"	4.20	ND	161	75-125	7.28	25		QM-05

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGJ0883 - 3060A Mod

Blank (BGJ0883-BLK1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ0883-BS1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGJ0883-DUP1)

Source: 2310294-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ0883-MS1)

Source: 2310294-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 24.4 0.30 mg/kg dry 26.2 ND 93.0 75-125

Matrix Spike Dup (BGJ0883-MSD1)

Source: 2310294-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 24.1 0.30 mg/kg dry 26.2 ND 92.0 75-125 1.08 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

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

Summit Scientific

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

Batch BGJ0841 - General Preparation

Blank (BGJ0841-BLK1)

Prepared: 10/20/23 Analyzed: 10/24/23

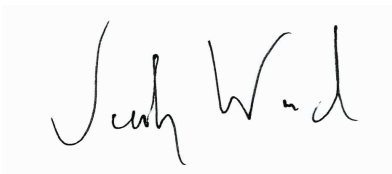
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BGJ0841-BS1)

Prepared: 10/20/23 Analyzed: 10/24/23

Calcium	5.44	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	5.22	0.0500	"	5.00		104	70-130			
Sodium	5.71	0.0500	"	5.00		114	70-130			

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 - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

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

Summit Scientific

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

Batch BGJ0940 - General Preparation


Duplicate (BGJ0940-DUP1)

Source: 2310294-01

Prepared & Analyzed: 10/24/23

% Solids	95.3		%		95.3			0.00183	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

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

Summit Scientific

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

Batch BGJ0897 - General Preparation

Blank (BGJ0897-BLK1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0897-BS1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

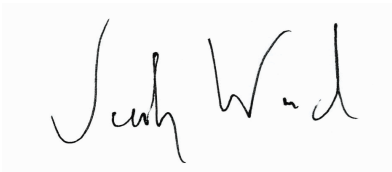
Duplicate (BGJ0897-DUP1)

Source: 2310116-05

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 0.811 0.0100 mmhos/cm 0.806 0.693 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/26/23 12:05

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

Summit Scientific

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

Batch BGJ0896 - General Preparation

LCS (BGJ0896-BS1)

Prepared & Analyzed: 10/23/23

pH	9.15	pH Units	9.18	99.7	95-105
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Duplicate (BGJ0896-DUP1)

Source: 2310294-01

Prepared & Analyzed: 10/23/23

pH	7.89	pH Units	7.81	1.02	20
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Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernard Tank

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/26/23 12:05

Notes and Definitions

- 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.
- 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