

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 16, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Gibson 11-9
Work Order #2404197

Enclosed are the results of analyses for samples received by Summit Scientific on 04/11/24 15:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gibson 11-9
Project Number: UWRWE-A3675-ABN
Project Manager: Paul Henchan

Reported:
05/16/24 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@5.0	2404197-01	Soil	04/11/24 00:00	04/11/24 15:32
FL09@5.0	2404197-02	Soil	04/11/24 00:00	04/11/24 15:32

Summit Scientific

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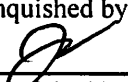
SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
2404197	

Client: Fremont Env	Send Data To: Project Manager: Paul Henehan	Send Invoice To: Company: Noble
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:
City/State/Zip:	jeffg@fremontenv.com ethanh@fremontenv.com	AFE#:
Phone:	Project Name: Gibson 11-9	PO/Billing Codes: UWRWE-A3675-ABN
Sampler Name: JG	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs(915)	DRO,ORO,GRO	PAHs(915)	EC-PH,SAR, Barom	
1	FL01@5.0'	4/11/24		2			XX			XX			XX	XX	XX	XX	XX	
2	FL09@5.0'	4/11/24		2			XX			XX			XX	XX	XX	XX	XX	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: 	Date/Time: 4/11/24 1532	Received by: J. H. W. d	Date/Time: 4/11/24 15:32	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 18.9	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2404197

Client: Fremont Client Project ID: Gibson 11-9

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

[X] [] [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [X] Water [] Other []

Temp (°C) 18.9 Thermometer # 2

	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.	X			on file
If custody seals are present, are they intact? ⁽¹⁾			X	
Are samples due within 48 hours present?		X		
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			X	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾		X		No Sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	X			
Were all samples received intact? ⁽¹⁾	X			
Was adequate sample volume provided? ⁽¹⁾	X			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	X			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
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.			X	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	

Additional Comments (if any):

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

Jay Wild

Custodian Printed Name

4/11/24 15:32

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gibson 11-9
Project Number: UWRWE-A3675-ABN
Project Manager: Paul Henchan

Reported:
05/16/24 15:52

FL01@5.0
2404197-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0411	04/12/24	04/17/24	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: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0412	04/12/24	04/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.38	67.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL01@5.0
2404197-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0425	04/15/24	04/16/24	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: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	47.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0621	04/18/24	05/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Paul Henchan

Reported:
05/16/24 15:52

FL01@5.0
2404197-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.07	0.200	mg/kg dry	1	BHD0891	04/24/24	05/16/24	EPA 6020B
Barium	57.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.34	0.400	"	"	"	"	"	"
Lead	7.75	0.200	"	"	"	"	"	"
Nickel	3.74	0.400	"	"	"	"	"	"
Silver	0.0201	0.0200	"	"	"	"	"	"
Zinc	21.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0727	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.0	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	8.89	0.0500	"	"	"	"	"	"	
Sodium	4.87	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.231	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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FL01@5.0
2404197-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	BHD0587	04/18/24	04/18/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.161	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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FL09@5.0
2404197-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0411	04/12/24	04/17/24	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: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0412	04/12/24	04/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.54	68.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL09@5.0
2404197-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0425	04/15/24	04/16/24	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: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0621	04/18/24	05/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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05/16/24 15:52

FL09@5.0
2404197-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.53	0.200	mg/kg dry	1	BHD0891	04/24/24	05/16/24	EPA 6020B	
Barium	31.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.81	0.400	"	"	"	"	"	"	
Lead	5.67	0.200	"	"	"	"	"	"	
Nickel	3.61	0.400	"	"	"	"	"	"	
Silver	0.0251	0.0200	"	"	"	"	"	"	
Zinc	21.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0727	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.8	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	12.1	0.0500	"	"	"	"	"	"	
Sodium	9.08	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.258	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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FL09@5.0
2404197-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHD0587	04/18/24	04/18/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0744	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.04		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project Manager: Paul Henchan

Reported:
05/16/24 15:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0411 - EPA 5030 Soil MS

Blank (BHD0411-BLK1)

Prepared: 04/12/24 Analyzed: 04/16/24

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	0.0507		"	0.0400		127	50-150				
Surrogate: Toluene-d8	0.0388		"	0.0400		96.9	50-150				
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.4	50-150				

LCS (BHD0411-BS1)

Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	0.0886	0.0020	mg/kg	0.100		88.6	70-130				
Toluene	0.0978	0.0050	"	0.100		97.8	70-130				
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130				
m,p-Xylene	0.209	0.010	"	0.200		105	70-130				
o-Xylene	0.102	0.0050	"	0.100		102	70-130				
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130				
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130				
Naphthalene	0.0916	0.0038	"	0.100		91.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0479		"	0.0400		120	50-150				
Surrogate: Toluene-d8	0.0378		"	0.0400		94.6	50-150				
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150				

Matrix Spike (BHD0411-MS1)

Source: 2404188-01

Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	0.0835	0.0020	mg/kg	0.100	ND	83.5	70-130				
Toluene	0.0901	0.0050	"	0.100	ND	90.1	70-130				
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130				
m,p-Xylene	0.193	0.010	"	0.200	ND	96.4	70-130				
o-Xylene	0.0940	0.0050	"	0.100	ND	94.0	70-130				
1,2,4-Trimethylbenzene	0.0926	0.0050	"	0.100	ND	92.6	70-130				
1,3,5-Trimethylbenzene	0.0950	0.0050	"	0.100	ND	95.0	70-130				
Naphthalene	0.0920	0.0038	"	0.100	ND	92.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400		113	50-150				
Surrogate: Toluene-d8	0.0383		"	0.0400		95.7	50-150				
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.5	50-150				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gibson 11-9
 Project Number: UWRWE-A3675-ABN
 Project Manager: Paul Henchan

Reported:
 05/16/24 15:52

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

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

Batch BHD0411 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0411-MSD1)	Source: 2404188-01			Prepared: 04/12/24 Analyzed: 04/16/24					
Benzene	0.0880	0.0020	mg/kg	0.100	ND	88.0	70-130	5.28	30
Toluene	0.0969	0.0050	"	0.100	ND	96.9	70-130	7.22	30
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	4.12	30
m,p-Xylene	0.200	0.010	"	0.200	ND	99.8	70-130	3.38	30
o-Xylene	0.0980	0.0050	"	0.100	ND	98.0	70-130	4.12	30
1,2,4-Trimethylbenzene	0.0962	0.0050	"	0.100	ND	96.2	70-130	3.81	30
1,3,5-Trimethylbenzene	0.0987	0.0050	"	0.100	ND	98.7	70-130	3.90	30
Naphthalene	0.0933	0.0038	"	0.100	ND	93.3	70-130	1.46	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0469</i>		<i>"</i>	<i>0.0400</i>		<i>117</i>	<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>		<i>94.3</i>	<i>50-150</i>		

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Project: Noble - Gibson 11-9
Project Number: UWRWE-A3675-ABN
Project Manager: Paul Henchan

Reported:
05/16/24 15:52

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 BHD0412 - EPA 3550A

Blank (BHD0412-BLK1)

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5	104	30-150					

LCS (BHD0412-BS1)

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	454	50	mg/kg	500	90.8	70-130					
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5	103	30-150					

Matrix Spike (BHD0412-MS1)

Source: 2404188-01

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	456	50	mg/kg	500	15.1	88.1	70-130				
Surrogate: <i>o</i> -Terphenyl	8.67		"	12.5	69.4	30-150					

Matrix Spike Dup (BHD0412-MSD1)

Source: 2404188-01

Prepared: 04/12/24 Analyzed: 04/16/24

C10-C28 (DRO)	509	50	mg/kg	500	15.1	98.8	70-130	11.1	20		
Surrogate: <i>o</i> -Terphenyl	8.16		"	12.5	65.3	30-150					

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Project: Noble - Gibson 11-9
Project Number: UWRWE-A3675-ABN
Project Manager: Paul Henchan

Reported:
05/16/24 15:52

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 BHD0425 - EPA 5030 Soil MS

Blank (BHD0425-BLK1)

Prepared & Analyzed: 04/15/24

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>0.0241</i>		"	<i>0.0333</i>		<i>72.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0169</i>		"	<i>0.0333</i>		<i>50.8</i>	<i>40-150</i>			

LCS (BHD0425-BS1)

Prepared & Analyzed: 04/15/24

Acenaphthene	0.0231	0.00500	mg/kg	0.0333		69.3	31-137			
Anthracene	0.0271	0.00500	"	0.0333		81.2	30-120			
Benzo (a) anthracene	0.0271	0.00500	"	0.0333		81.3	30-120			
Benzo (a) pyrene	0.0218	0.00500	"	0.0333		65.4	30-120			
Benzo (b) fluoranthene	0.0248	0.00500	"	0.0333		74.4	30-120			
Benzo (k) fluoranthene	0.0288	0.00500	"	0.0333		86.5	30-120			
Chrysene	0.0296	0.00500	"	0.0333		88.8	30-120			
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333		57.4	30-120			
Fluoranthene	0.0271	0.00500	"	0.0333		81.4	30-120			
Fluorene	0.0254	0.00500	"	0.0333		76.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333		58.1	30-120			
Pyrene	0.0445	0.00500	"	0.0333		134	35-142			
1-Methylnaphthalene	0.0271	0.00500	"	0.0333		81.2	35-142			
2-Methylnaphthalene	0.0260	0.00500	"	0.0333		78.0	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0229</i>		"	<i>0.0333</i>		<i>68.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0169</i>		"	<i>0.0333</i>		<i>50.6</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gibson 11-9
Project Number: UWRWE-A3675-ABN
Project Manager: Paul Henchan

Reported:
05/16/24 15:52

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 BHD0425 - EPA 5030 Soil MS

Matrix Spike (BHD0425-MS1)	Source: 2404193-01			Prepared & Analyzed: 04/15/24								
Acenaphthene	0.0174	0.00500	mg/kg	0.0333	ND	52.2	31-137					
Anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120					
Benzo (a) anthracene	0.0349	0.00500	"	0.0333	0.00886	78.1	30-120					
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120					
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120					
Benzo (k) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120					
Chrysene	0.0244	0.00500	"	0.0333	0.00523	57.6	30-120					
Dibenz (a,h) anthracene	0.0256	0.00500	"	0.0333	ND	76.7	30-120					
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120					
Fluorene	0.0193	0.00500	"	0.0333	0.00861	32.2	30-120					
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333	ND	71.2	30-120					
Pyrene	0.0302	0.00500	"	0.0333	ND	90.6	35-142					
1-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.1	15-130					
2-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	63.8	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0183</i>		<i>"</i>	<i>0.0333</i>		<i>54.8</i>	<i>40-150</i>					

Matrix Spike Dup (BHD0425-MSD1)	Source: 2404193-01			Prepared & Analyzed: 04/15/24								
Acenaphthene	0.0182	0.00500	mg/kg	0.0333	ND	54.5	31-137	4.39	30			
Anthracene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	6.74	30			
Benzo (a) anthracene	0.0337	0.00500	"	0.0333	0.00886	74.6	30-120	3.47	30			
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	18.6	30			
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	4.96	30			
Benzo (k) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.7	30-120	5.66	30			
Chrysene	0.0243	0.00500	"	0.0333	0.00523	57.2	30-120	0.538	30			
Dibenz (a,h) anthracene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	17.6	30			
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.4	30-120	10.5	30			
Fluorene	0.0225	0.00500	"	0.0333	0.00861	41.6	30-120	15.0	30			
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	17.0	30			
Pyrene	0.0305	0.00500	"	0.0333	ND	91.5	35-142	0.953	30			
1-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.7	15-130	4.06	50			
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.6	15-130	2.84	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.6</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.3</i>	<i>40-150</i>					

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gibson 11-9
 Project Number: UWRWE-A3675-ABN
 Project Manager: Paul Henchan

Reported:
 05/16/24 15:52

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

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

Batch BHD0621 - EPA 3050B

Blank (BHD0621-BLK1)

Prepared: 04/18/24 Analyzed: 05/02/24

Boron ND 2.00 mg/L

LCS (BHD0621-BS1)

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 5.01 2.00 mg/L 5.00 100 80-120

Duplicate (BHD0621-DUP1)

Source: 2404188-01

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 0.0454 2.00 mg/L 0.0772 51.9 20

Matrix Spike (BHD0621-MS1)

Source: 2404188-01

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 5.34 2.00 mg/L 4.98 0.0772 106 75-125

Matrix Spike Dup (BHD0621-MSD1)

Source: 2404188-01

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 5.21 2.00 mg/L 4.98 0.0772 103 75-125 2.55 25

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Wellington CO, 80549

Project: Noble - Gibson 11-9
Project Number: UWRWE-A3675-ABN
Project Manager: Paul Henchan

Reported:
05/16/24 15:52

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0891 - EPA 3050B

Blank (BHD0891-BLK1)

Prepared: 04/24/24 Analyzed: 05/16/24

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 (BHD0891-BS1)

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	35.8	0.200	mg/kg wet	40.0		89.4	80-120			
Barium	39.4	0.400	"	40.0		98.6	80-120			
Cadmium	2.00	0.200	"	2.00		100	80-120			
Copper	36.1	0.400	"	40.0		90.1	80-120			
Lead	19.5	0.200	"	20.0		97.6	80-120			
Nickel	40.4	0.400	"	40.0		101	80-120			
Silver	1.98	0.0200	"	2.00		98.9	80-120			
Zinc	36.3	0.400	"	40.0		90.7	80-120			
Selenium	3.91	0.260	"	4.00		97.8	80-120			

Duplicate (BHD0891-DUP1)

Source: 2404189-01

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	2.01	0.200	mg/kg dry		1.74		14.1	20		
Barium	15.1	0.400	"		11.7		25.6	20		QR-04
Cadmium	0.0374	0.200	"		0.0330		12.4	20		
Copper	1.39	0.400	"		1.21		14.2	20		
Lead	2.11	0.200	"		1.75		18.5	20		
Nickel	0.819	0.400	"		0.765		6.83	20		
Silver	0.00911	0.0200	"		0.00905		0.760	20		
Zinc	7.21	0.400	"		6.24		14.5	20		
Selenium	ND	0.260	"		ND			20		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gibson 11-9
Project Number: UWRWE-A3675-ABN
Project Manager: Paul Henchan

Reported:
05/16/24 15:52

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 BHD0891 - EPA 3050B

Matrix Spike (BHD0891-MS1)

Source: 2404189-01

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	45.5	0.200	mg/kg dry	45.6	1.74	96.0	75-125			
Barium	57.3	0.400	"	45.6	11.7	100	75-125			
Cadmium	2.38	0.200	"	2.28	0.0330	103	75-125			
Copper	45.1	0.400	"	45.6	1.21	96.4	75-125			
Lead	25.2	0.200	"	22.8	1.75	103	75-125			
Nickel	43.1	0.400	"	45.6	0.765	92.9	75-125			
Silver	2.32	0.0200	"	2.28	0.00905	102	75-125			
Zinc	51.7	0.400	"	45.6	6.24	99.8	75-125			
Selenium	4.61	0.260	"	4.56	ND	101	75-125			

Matrix Spike Dup (BHD0891-MSD1)

Source: 2404189-01

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	44.9	0.200	mg/kg dry	45.6	1.74	94.8	75-125	1.23	25
Barium	57.3	0.400	"	45.6	11.7	100	75-125	0.126	25
Cadmium	2.36	0.200	"	2.28	0.0330	102	75-125	1.08	25
Copper	44.8	0.400	"	45.6	1.21	95.5	75-125	0.879	25
Lead	24.9	0.200	"	22.8	1.75	102	75-125	1.03	25
Nickel	41.9	0.400	"	45.6	0.765	90.2	75-125	2.98	25
Silver	2.29	0.0200	"	2.28	0.00905	100	75-125	1.48	25
Zinc	51.3	0.400	"	45.6	6.24	98.9	75-125	0.793	25
Selenium	4.47	0.260	"	4.56	ND	98.2	75-125	3.09	25

Post Spike (BHD0891-PS1)

Source: 2404189-01

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	103		ug/l	100	3.65	99.1	75-125		
Barium	125		"	100	24.5	101	75-125		
Cadmium	5.35		"	5.00	0.0691	106	75-125		
Copper	102		"	100	2.53	99.4	75-125		
Lead	56.0		"	50.0	3.67	105	75-125		
Nickel	99.6		"	100	1.60	98.0	75-125		
Silver	5.26		"	5.00	0.0189	105	75-125		
Zinc	114		"	100	13.1	101	75-125		
Selenium	10.6		"	10.0	0.0407	106	75-125		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gibson 11-9
 Project Number: UWRWE-A3675-ABN
 Project Manager: Paul Henchan

Reported:
 05/16/24 15:52

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0727 - 3060A Mod

Blank (BHD0727-BLK1)

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0727-BS1)

Prepared & Analyzed: 04/22/24

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

Duplicate (BHD0727-DUP1)

Source: 2404193-01

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0727-MS1)

Source: 2404193-01

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent 29.3 0.30 mg/kg dry 28.9 ND 101 75-125

Matrix Spike Dup (BHD0727-MSD1)

Source: 2404193-01

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent 29.4 0.30 mg/kg dry 28.9 ND 102 75-125 0.197 20

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 PO Box 1289
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Project: Noble - Gibson 11-9
 Project Number: UWRWE-A3675-ABN
 Project Manager: Paul Henchan

Reported:
 05/16/24 15:52

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

Summit Scientific

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

Batch BHD1028 - General Preparation

Blank (BHD1028-BLK1)

Prepared: 04/29/24 Analyzed: 05/08/24

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

LCS (BHD1028-BS1)

Prepared: 04/29/24 Analyzed: 05/08/24

Calcium	5.34	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.49	0.0500	"	5.00	110	70-130
Sodium	4.99	0.0500	"	5.00	99.7	70-130

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gibson 11-9

Project Number: UWRWE-A3675-ABN
 Project Manager: Paul Henchan

Reported:
 05/16/24 15:52

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

Summit Scientific

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

Batch BHD0587 - General Preparation

Duplicate (BHD0587-DUP1)

Source: 2404189-01

Prepared & Analyzed: 04/18/24

% Solids	82.1		%		83.8			2.04		20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gibson 11-9
 Project Number: UWRWE-A3675-ABN
 Project Manager: Paul Henchan

Reported:
 05/16/24 15:52

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

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

Batch BHD1102 - General Preparation

Blank (BHD1102-BLK1)

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD1102-BS1)

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHD1102-DUP1)

Source: 2404157-01

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.146 0.819 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gibson 11-9
 Project Number: UWRWE-A3675-ABN
 Project Manager: Paul Henchan

Reported:
 05/16/24 15:52

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 BHD1101 - General Preparation

LCS (BHD1101-BS1)

Prepared: 04/30/24 Analyzed: 05/01/24

pH	9.11	pH Units	9.18	99.2	95-105
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Duplicate (BHD1101-DUP1)

Source: 2404157-01

Prepared: 04/30/24 Analyzed: 05/01/24

pH	8.98	pH Units	8.97	0.111	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gibson 11-9

Project Number: UWRWE-A3675-ABN

Project Manager: Paul Henchan

Reported:
05/16/24 15:52

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.
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