

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 08, 2024

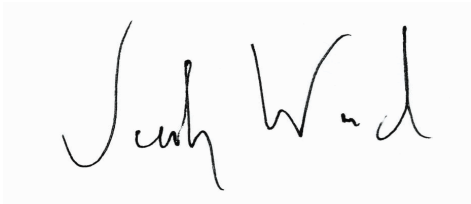
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Rouse USX A05-06

Work Order #2404169

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/24 08:00. 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 small flourish at the end of the word "Wood".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN

Project Manager: Paul Henchan

Reported:
07/08/24 13:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 5'	2404169-01	Soil	04/09/24 14:05	04/10/24 08:00
FL02 5'	2404169-02	Soil	04/09/24 14:00	04/10/24 08:00
FL07 5'	2404169-03	Soil	04/09/24 13:55	04/10/24 08:00

Case Narrative

Rerun analyses were performed by client request on 6/26/2024.
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 6/26/2024 at 15:56 MT.

Summit Scientific

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

Lab ID	Page 1 of 1
2404169	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: House USX A05-06	PO/Billing Codes: UWRWE-A2956-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	FLO1 5'	4/9/24	14:05	2			X			X			X	X	X	X			
2	FLO2 5'	I	14:00	I			I			I			I	I	I	I			
3	FLO7 5'	I	13:55	I			I			I			I	I	I	I			
4																			
5																			
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7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 4/9/24 17:40	Received by: Summit North	Date/Time: 4/9/24 17:40	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 4/9/24 0800	Received by:	Date/Time: 4/9/24 0800	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 70	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2404189

Client: Evermont Client Project ID: Rouse USX A05-00

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OUTICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 sample times
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

4/10/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

FL01 5'
2404169-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0397	04/12/24	04/13/24	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: **04/09/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0377	94.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0399	04/12/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	4.36	34.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A2956-ABN
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FL01 5'
2404169-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0393	04/12/24	04/13/24	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: **04/09/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0287	86.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0254	76.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0594	04/18/24	05/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/09/24 14:05**

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 - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

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FL01 5'
2404169-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	8.29	0.180	mg/kg dry	1	BHD0873	04/24/24	05/09/24	EPA 6020B
Barium	75.4	0.360	"	"	"	"	"	"
Cadmium	0.226	0.180	"	"	"	"	"	"
Copper	7.12	0.360	"	"	"	"	"	"
Lead	8.81	0.180	"	"	"	"	"	"
Nickel	5.91	0.360	"	"	"	"	"	"
Silver	0.0239	0.0180	"	"	"	"	"	"
Zinc	25.0	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0672	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	84.1	0.0500	mg/L dry	1	BHD0960	04/25/24	05/21/24	EPA 6020B	
Magnesium	7.51	0.0500	"	"	"	"	"	"	
Sodium	7.50	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.210	0.00100	units	1	BHE0677	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 14:05**

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

Project: Noble - Rouse USX A05-06
 Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

FL01 5'
2404169-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.9	%	1	BHD0513	04/16/24	04/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/09/24 14:05**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.184	0.0100	mmhos/cm	1	BHD0961	04/25/24	04/30/24	EPA 120.1	

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

Date Sampled: **04/09/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.78		pH Units	1	BHD0962	04/25/24	04/30/24	EPA 9045D	

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Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

FL02 5'
2404169-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0397	04/12/24	04/13/24	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	0.018	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0450	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0399	04/12/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.32	42.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Rouse USX A05-06

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Reported:
07/08/24 13:12

FL02 5'
2404169-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0952	0.00500	mg/kg	1	BHD0393	04/12/24	04/13/24	EPA 8270D SIM	
Anthracene	0.131	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.147	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0990	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.155	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0740	0.00500	"	"	"	"	"	"	
Chrysene	0.166	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.0134	0.00500	"	"	"	"	"	"	
Fluoranthene	0.410	0.00500	"	"	"	"	"	"	E
Fluorene	0.0849	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.133	0.00500	"	"	"	"	"	"	
Pyrene	0.387	0.00500	"	"	"	"	"	"	E
1-Methylnaphthalene	0.00598	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0113	0.00500	"	"	"	"	"	"	

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0240	72.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	67.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0594	04/18/24	05/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.04	0.200	mg/kg dry	1	BHD0873	04/24/24	05/09/24	EPA 6020B	

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Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

FL02 5'
2404169-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	71.5	0.400	mg/kg dry	1	BHD0873	04/24/24	05/09/24	EPA 6020B	
Cadmium	0.205	0.200	"	"	"	"	"	"	
Copper	11.4	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	11.7	0.400	"	"	"	"	"	"	
Silver	0.0369	0.0200	"	"	"	"	"	"	
Zinc	52.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0672	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.2	0.0500	mg/L dry	1	BHD0960	04/25/24	05/21/24	EPA 6020B	
Magnesium	25.2	0.0500	"	"	"	"	"	"	
Sodium	53.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.61	0.00100	units	1	BHE0677	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BHD0513	04/16/24	04/17/24	Calculation	

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FL02 5'
2404169-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/09/24 14:00**

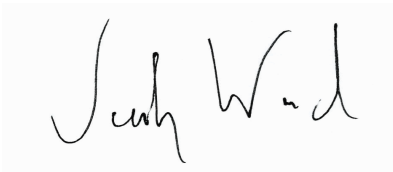
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.730	0.0100	mmhos/cm	1	BHD0961	04/25/24	04/30/24	EPA 120.1	

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

Date Sampled: **04/09/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BHD0962	04/25/24	04/30/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

FL07 5'
2404169-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0397	04/12/24	04/13/24	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: **04/09/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0471	118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	95.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0399	04/12/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.32	42.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL07 5'
2404169-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0130	0.00500	mg/kg	1	BHD0393	04/12/24	04/13/24	EPA 8270D SIM	
Anthracene	0.0174	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0102	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0158	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00701	0.00500	"	"	"	"	"	"	
Chrysene	0.0188	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0611	0.00500	"	"	"	"	"	"	
Fluorene	0.00979	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0112	0.00500	"	"	"	"	"	"	
Pyrene	0.0613	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0594	04/18/24	05/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.54	0.200	mg/kg dry	1	BHD0873	04/24/24	05/09/24	EPA 6020B	
Barium	89.6	0.400	"	"	"	"	"	"	

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FL07 5'
2404169-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	0.262	0.200	mg/kg dry	1	BHD0873	04/24/24	05/09/24	EPA 6020B	
Copper	7.14	0.400	"	"	"	"	"	"	
Lead	6.95	0.200	"	"	"	"	"	"	
Nickel	7.12	0.400	"	"	"	"	"	"	
Silver	0.0301	0.0200	"	"	"	"	"	"	
Zinc	29.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0672	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.8	0.0500	mg/L dry	1	BHD0960	04/25/24	05/21/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	64.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.37	0.00100	units	1	BHE0677	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BHD0513	04/16/24	04/17/24	Calculation	

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 Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

FL07 5'
2404169-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/09/24 13:55**

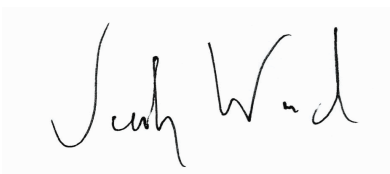
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.687	0.0100		mmhos/cm	1	BHD0961	04/25/24	04/30/24	EPA 120.1	

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

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.66			pH Units	1	BHD0962	04/25/24	04/30/24	EPA 9045D	

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Project: Noble - Rouse USX A05-06
 Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

FL07 5'
2404169-03RE1 (Soil)

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PAH by EPA Method 8270D SIM

I-04, O-05

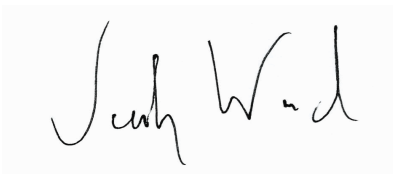
Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	0.00562	0.00500	mg/kg	1	BHF0938	06/28/24	06/28/24	EPA 8270D SIM	

Date Sampled: **04/09/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0113	33.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0120	36.0 %	40-150		"	"	"	"	

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Project: Noble - Rouse USX A05-06
Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

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 BHD0397 - EPA 5030 Soil MS

Blank (BHD0397-BLK1)

Prepared: 04/12/24 Analyzed: 04/13/24

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0427		"	0.0400		107	50-150				
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.8	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.5	50-150				

LCS (BHD0397-BS1)

Prepared: 04/12/24 Analyzed: 04/13/24

Benzene	0.0782	0.0020	mg/kg	0.100		78.2	70-130				
Toluene	0.0988	0.0050	"	0.100		98.8	70-130				
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130				
m,p-Xylene	0.193	0.010	"	0.200		96.7	70-130				
o-Xylene	0.0970	0.0050	"	0.100		97.0	70-130				
1,2,4-Trimethylbenzene	0.0956	0.0050	"	0.100		95.6	70-130				
1,3,5-Trimethylbenzene	0.0970	0.0050	"	0.100		97.0	70-130				
Naphthalene	0.0869	0.0038	"	0.100		86.9	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0375		"	0.0400		93.7	50-150				
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		106	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0385		"	0.0400		96.2	50-150				

Matrix Spike (BHD0397-MS1)

Source: 2404168-01

Prepared: 04/12/24 Analyzed: 04/13/24

Benzene	0.0667	0.0020	mg/kg	0.100	ND	66.7	70-130				QM-07
Toluene	0.0703	0.0050	"	0.100	ND	70.3	70-130				
Ethylbenzene	0.0801	0.0050	"	0.100	ND	80.1	70-130				
m,p-Xylene	0.147	0.010	"	0.200	ND	73.7	70-130				
o-Xylene	0.0752	0.0050	"	0.100	ND	75.2	70-130				
1,2,4-Trimethylbenzene	0.0641	0.0050	"	0.100	ND	64.1	70-130				QM-07
1,3,5-Trimethylbenzene	0.0712	0.0050	"	0.100	ND	71.2	70-130				
Naphthalene	0.0540	0.0038	"	0.100	ND	54.0	70-130				QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0341		"	0.0400		85.2	50-150				
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.0	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		97.9	50-150				

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Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

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 BHD0397 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0397-MSD1)	Source: 2404168-01			Prepared: 04/12/24 Analyzed: 04/13/24						
Benzene	0.0698	0.0020	mg/kg	0.100	ND	69.8	70-130	4.61	30	QM-07
Toluene	0.0742	0.0050	"	0.100	ND	74.2	70-130	5.48	30	
Ethylbenzene	0.0824	0.0050	"	0.100	ND	82.4	70-130	2.81	30	
m,p-Xylene	0.153	0.010	"	0.200	ND	76.4	70-130	3.66	30	
o-Xylene	0.0778	0.0050	"	0.100	ND	77.8	70-130	3.41	30	
1,2,4-Trimethylbenzene	0.0667	0.0050	"	0.100	ND	66.7	70-130	3.99	30	QM-07
1,3,5-Trimethylbenzene	0.0730	0.0050	"	0.100	ND	73.0	70-130	2.54	30	
Naphthalene	0.0522	0.0038	"	0.100	ND	52.2	70-130	3.39	30	QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.7</i>	<i>50-150</i>			

Batch BHG0077 - EPA 5030 Soil MS

Blank (BHG0077-BLK1)	Prepared & Analyzed: 07/02/24									
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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0360</i>		<i>"</i>	<i>0.0400</i>		<i>90.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

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 BHG0077 - EPA 5030 Soil MS

LCS (BHG0077-BS1)

Prepared & Analyzed: 07/02/24

Benzene	0.0877	0.0020	mg/kg	0.100		87.7	70-130			
Toluene	0.0993	0.0050	"	0.100		99.3	70-130			
Ethylbenzene	0.0959	0.0050	"	0.100		95.9	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.5	70-130			
o-Xylene	0.0921	0.0050	"	0.100		92.1	70-130			
1,2,4-Trimethylbenzene	0.0884	0.0050	"	0.100		88.4	70-130			
1,3,5-Trimethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
Naphthalene	0.0852	0.0038	"	0.100		85.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0366</i>		<i>"</i>	<i>0.0400</i>		<i>91.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0423</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.5</i>	<i>50-150</i>			

Matrix Spike (BHG0077-MS1)

Source: 2406462-01

Prepared & Analyzed: 07/02/24

Benzene	0.0960	0.0020	mg/kg	0.100	ND	96.0	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.212	0.010	"	0.200	ND	106	70-130			
o-Xylene	0.0998	0.0050	"	0.100	ND	99.8	70-130			
1,2,4-Trimethylbenzene	0.0973	0.0050	"	0.100	ND	97.3	70-130			
1,3,5-Trimethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130			
Naphthalene	0.0958	0.0038	"	0.100	ND	95.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

Matrix Spike Dup (BHG0077-MSD1)

Source: 2406462-01

Prepared & Analyzed: 07/02/24

Benzene	0.0936	0.0020	mg/kg	0.100	ND	93.6	70-130	2.56	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	1.13	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	5.26	30	
m,p-Xylene	0.202	0.010	"	0.200	ND	101	70-130	4.48	30	
o-Xylene	0.0985	0.0050	"	0.100	ND	98.5	70-130	1.36	30	
1,2,4-Trimethylbenzene	0.0929	0.0050	"	0.100	ND	92.9	70-130	4.67	30	
1,3,5-Trimethylbenzene	0.0935	0.0050	"	0.100	ND	93.5	70-130	4.88	30	
Naphthalene	0.100	0.0038	"	0.100	ND	100	70-130	4.41	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			

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Project: Noble - Rouse USX A05-06
 Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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 BHD0399 - EPA 3550A

Blank (BHD0399-BLK1)

Prepared & Analyzed: 04/12/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		106		30-150			

LCS (BHD0399-BS1)

Prepared & Analyzed: 04/12/24

C10-C28 (DRO)	420	50	mg/kg	500		84.1		70-130			
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.9		30-150			

Matrix Spike (BHD0399-MS1)

Source: 2404168-01

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

C10-C28 (DRO)	350	50	mg/kg	500	23.9	65.3		70-130			QM-07
Surrogate: <i>o</i> -Terphenyl	7.69		"	12.5		61.5		30-150			

Matrix Spike Dup (BHD0399-MSD1)

Source: 2404168-01

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

C10-C28 (DRO)	233	50	mg/kg	500	23.9	41.8		70-130	40.3	20	QM-07
Surrogate: <i>o</i> -Terphenyl	5.38		"	12.5		43.1		30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Rouse USX A05-06
Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0393 - EPA 5030 Soil MS

Blank (BHD0393-BLK1)

Prepared: 04/12/24 Analyzed: 04/13/24

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>0.0388</i>		"	<i>0.0333</i>		<i>116</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0343</i>		"	<i>0.0333</i>		<i>103</i>		<i>40-150</i>			

LCS (BHD0393-BS1)

Prepared: 04/12/24 Analyzed: 04/13/24

Acenaphthene	0.0342	0.00500	mg/kg	0.0333	103	31-137
Anthracene	0.0340	0.00500	"	0.0333	102	30-120
Benzo (a) anthracene	0.0246	0.00500	"	0.0333	73.7	30-120
Benzo (a) pyrene	0.0285	0.00500	"	0.0333	85.6	30-120
Benzo (b) fluoranthene	0.0291	0.00500	"	0.0333	87.3	30-120
Benzo (k) fluoranthene	0.0346	0.00500	"	0.0333	104	30-120
Chrysene	0.0349	0.00500	"	0.0333	105	30-120
Dibenz (a,h) anthracene	0.0291	0.00500	"	0.0333	87.3	30-120
Fluoranthene	0.0306	0.00500	"	0.0333	91.8	30-120
Fluorene	0.0222	0.00500	"	0.0333	66.6	30-120
Indeno (1,2,3-cd) pyrene	0.0316	0.00500	"	0.0333	94.9	30-120
Pyrene	0.0444	0.00500	"	0.0333	133	35-142
1-Methylnaphthalene	0.0349	0.00500	"	0.0333	105	35-142
2-Methylnaphthalene	0.0262	0.00500	"	0.0333	78.6	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0368</i>		"	<i>0.0333</i>	<i>110</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		"	<i>0.0333</i>	<i>88.7</i>	<i>40-150</i>

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

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 BHD0393 - EPA 5030 Soil MS

Matrix Spike (BHD0393-MS1)

Source: 2404169-01

Prepared: 04/12/24 Analyzed: 04/13/24

Acenaphthene	0.0267	0.00500	mg/kg	0.0333	ND	80.2	31-137			
Anthracene	0.0266	0.00500	"	0.0333	ND	79.8	30-120			
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Benzo (a) pyrene	0.0192	0.00500	"	0.0333	ND	57.5	30-120			
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120			
Benzo (k) fluoranthene	0.0238	0.00500	"	0.0333	ND	71.3	30-120			
Chrysene	0.0286	0.00500	"	0.0333	ND	85.9	30-120			
Dibenz (a,h) anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120			
Fluoranthene	0.0264	0.00500	"	0.0333	ND	79.1	30-120			
Fluorene	0.0194	0.00500	"	0.0333	ND	58.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0262	0.00500	"	0.0333	ND	78.6	30-120			
Pyrene	0.0337	0.00500	"	0.0333	ND	101	35-142			
1-Methylnaphthalene	0.0269	0.00500	"	0.0333	ND	80.8	15-130			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0282		"	0.0333		84.6	40-150			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.2	40-150			

Matrix Spike Dup (BHD0393-MSD1)

Source: 2404169-01

Prepared: 04/12/24 Analyzed: 04/13/24

Acenaphthene	0.0253	0.00500	mg/kg	0.0333	ND	75.9	31-137	5.46	30	
Anthracene	0.0248	0.00500	"	0.0333	ND	74.5	30-120	6.83	30	
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.2	30-120	5.59	30	
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	4.76	30	
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	2.99	30	
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	4.72	30	
Chrysene	0.0264	0.00500	"	0.0333	ND	79.1	30-120	8.18	30	
Dibenz (a,h) anthracene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	25.2	30	
Fluoranthene	0.0239	0.00500	"	0.0333	ND	71.6	30-120	10.0	30	
Fluorene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	8.84	30	
Indeno (1,2,3-cd) pyrene	0.0249	0.00500	"	0.0333	ND	74.6	30-120	5.19	30	
Pyrene	0.0300	0.00500	"	0.0333	ND	89.9	35-142	11.6	30	
1-Methylnaphthalene	0.0255	0.00500	"	0.0333	ND	76.6	15-130	5.22	50	
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.4	15-130	18.3	50	
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.4	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.7	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

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 BHF0938 - EPA 5030 Soil MS

Blank (BHF0938-BLK1)

Prepared & Analyzed: 06/28/24

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>0.0135</i>		"	<i>0.0333</i>		<i>40.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0144</i>		"	<i>0.0333</i>		<i>43.2</i>	<i>40-150</i>			

LCS (BHF0938-BS1)

Prepared & Analyzed: 06/28/24

Acenaphthene	0.0276	0.00500	mg/kg	0.0333		82.7	31-137			
Anthracene	0.0243	0.00500	"	0.0333		73.0	30-120			
Benzo (a) anthracene	0.0218	0.00500	"	0.0333		65.5	30-120			
Benzo (a) pyrene	0.0141	0.00500	"	0.0333		42.2	30-120			
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333		41.0	30-120			
Benzo (k) fluoranthene	0.0139	0.00500	"	0.0333		41.8	30-120			
Chrysene	0.0197	0.00500	"	0.0333		59.2	30-120			
Dibenz (a,h) anthracene	0.0175	0.00500	"	0.0333		52.5	30-120			
Fluoranthene	0.0262	0.00500	"	0.0333		78.5	30-120			
Fluorene	0.0209	0.00500	"	0.0333		62.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333		57.4	30-120			
Pyrene	0.0179	0.00500	"	0.0333		53.8	35-142			
1-Methylnaphthalene	0.0186	0.00500	"	0.0333		55.8	35-142			
2-Methylnaphthalene	0.0190	0.00500	"	0.0333		57.1	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0183</i>		"	<i>0.0333</i>		<i>54.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0276</i>		"	<i>0.0333</i>		<i>82.8</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHF0938 - EPA 5030 Soil MS

Matrix Spike (BHF0938-MS1)

Source: 2406444-02

Prepared & Analyzed: 06/28/24

Acenaphthene	0.0145	0.00500	mg/kg	0.0333	ND	43.4	31-137			
Anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120			
Benzo (a) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.2	30-120			
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.1	30-120			
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120			
Chrysene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Dibenz (a,h) anthracene	0.0142	0.00500	"	0.0333	ND	42.5	30-120			
Fluoranthene	0.0151	0.00500	"	0.0333	ND	45.2	30-120			
Fluorene	0.0161	0.00500	"	0.0333	ND	48.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Pyrene	0.0178	0.00500	"	0.0333	ND	53.4	35-142			
1-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.4	15-130			
2-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0138		"	0.0333		41.5	40-150			
Surrogate: Fluoranthene-d10	0.0165		"	0.0333		49.4	40-150			

Matrix Spike Dup (BHF0938-MSD1)

Source: 2406444-02

Prepared & Analyzed: 06/28/24

Acenaphthene	0.0141	0.00500	mg/kg	0.0333	ND	42.2	31-137	2.84	30
Anthracene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	5.85	30
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	24.1	30
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.4	30-120	15.5	30
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	12.7	30
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	5.86	30
Chrysene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	9.47	30
Dibenz (a,h) anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	26.7	30
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	26.2	30
Fluorene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	10.4	30
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	9.17	30
Pyrene	0.0154	0.00500	"	0.0333	ND	46.1	35-142	14.7	30
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130	19.6	50
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130	19.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0167		"	0.0333		50.2	40-150		
Surrogate: Fluoranthene-d10	0.0205		"	0.0333		61.5	40-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Rouse USX A05-06
 Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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		

Batch BHD0594 - EPA 3050B

Blank (BHD0594-BLK1)

Prepared: 04/18/24 Analyzed: 05/29/24

Boron ND 2.00 mg/L

LCS (BHD0594-BS1)

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 5.59 2.00 mg/L 5.00 112 80-120

Duplicate (BHD0594-DUP1)

Source: 2404166-01

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 0.441 2.00 mg/L 0.433 1.73 20

Matrix Spike (BHD0594-MS1)

Source: 2404166-01

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 5.44 2.00 mg/L 5.00 0.433 100 75-125

Matrix Spike Dup (BHD0594-MSD1)

Source: 2404166-01

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 5.99 2.00 mg/L 5.00 0.433 111 75-125 9.69 25

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Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

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 BHD0873 - EPA 3050B

Blank (BHD0873-BLK1)

Prepared: 04/24/24 Analyzed: 05/09/24

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 (BHD0873-BS1)

Prepared: 04/24/24 Analyzed: 05/09/24

Arsenic	38.9	0.200	mg/kg wet	40.0	97.3	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	1.88	0.200	"	2.00	94.2	80-120
Copper	38.3	0.400	"	40.0	95.9	80-120
Lead	18.9	0.200	"	20.0	94.4	80-120
Nickel	38.1	0.400	"	40.0	95.2	80-120
Silver	1.87	0.0200	"	2.00	93.7	80-120
Zinc	38.1	0.400	"	40.0	95.3	80-120
Selenium	4.05	0.260	"	4.00	101	80-120

Duplicate (BHD0873-DUP1)

Source: 2404158-01

Prepared: 04/24/24 Analyzed: 05/09/24

Arsenic	6.33	0.200	mg/kg dry	6.25	1.37	20	
Barium	125	0.400	"	234	60.6	20	QR-04
Cadmium	0.288	0.200	"	0.283	1.72	20	
Copper	15.7	0.400	"	15.3	2.92	20	
Lead	12.7	0.200	"	12.8	0.854	20	
Nickel	17.6	0.400	"	17.4	1.18	20	
Silver	0.0724	0.0200	"	0.0678	6.56	20	
Zinc	59.5	0.400	"	59.5	0.139	20	
Selenium	ND	0.260	"	ND		20	

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 Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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 BHD0873 - EPA 3050B

Matrix Spike (BHD0873-MS1)

Source: 2404158-01

Prepared: 04/24/24 Analyzed: 05/09/24

Arsenic	48.9	0.200	mg/kg dry	44.9	6.25	95.0	75-125				
Barium	154	0.400	"	44.9	234	NR	75-125				QM-07
Cadmium	2.43	0.200	"	2.24	0.283	95.7	75-125				
Copper	57.4	0.400	"	44.9	15.3	93.9	75-125				
Lead	32.4	0.200	"	22.4	12.8	87.4	75-125				
Nickel	60.4	0.400	"	44.9	17.4	95.8	75-125				
Silver	2.17	0.0200	"	2.24	0.0678	93.7	75-125				
Zinc	102	0.400	"	44.9	59.5	93.9	75-125				
Selenium	4.47	0.260	"	4.49	ND	99.6	75-125				

Matrix Spike Dup (BHD0873-MSD1)

Source: 2404158-01

Prepared: 04/24/24 Analyzed: 05/09/24

Arsenic	48.3	0.200	mg/kg dry	44.9	6.25	93.6	75-125	1.28	25		
Barium	154	0.400	"	44.9	234	NR	75-125	0.0816	25		QM-07
Cadmium	2.47	0.200	"	2.24	0.283	97.4	75-125	1.61	25		
Copper	56.8	0.400	"	44.9	15.3	92.5	75-125	1.07	25		
Lead	32.4	0.200	"	22.4	12.8	87.4	75-125	0.0208	25		
Nickel	59.4	0.400	"	44.9	17.4	93.8	75-125	1.55	25		
Silver	2.17	0.0200	"	2.24	0.0678	93.7	75-125	0.0620	25		
Zinc	100	0.400	"	44.9	59.5	90.7	75-125	1.43	25		
Selenium	4.25	0.260	"	4.49	ND	94.6	75-125	5.21	25		

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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 BHD0672 - 3060A Mod

Blank (BHD0672-BLK1)

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0672-BS1)

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 99.8 80-120

Duplicate (BHD0672-DUP1)

Source: 2404169-01

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0672-MS1)

Source: 2404169-01

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent 27.7 0.30 mg/kg dry 28.1 ND 98.6 75-125

Matrix Spike Dup (BHD0672-MSD1)

Source: 2404169-01

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent 27.7 0.30 mg/kg dry 28.1 ND 98.4 75-125 0.203 20

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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 BHD0960 - General Preparation

Blank (BHD0960-BLK1)

Prepared: 04/25/24 Analyzed: 05/21/24

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

LCS (BHD0960-BS1)

Prepared: 04/25/24 Analyzed: 05/21/24

Calcium	5.21	0.0500	mg/L wet	5.00		104	70-130			
Magnesium	4.98	0.0500	"	5.00		99.6	70-130			
Sodium	4.91	0.0500	"	5.00		98.1	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Rouse USX A05-06
 Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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 BHD0513 - General Preparation

Duplicate (BHD0513-DUP1)

Source: 2402304-04

Prepared: 04/16/24 Analyzed: 04/17/24

% Solids	83.0	%		82.5		0.586	20
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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			%REC	Limits	RPD	Limit	

Batch BHD0961 - General Preparation

Blank (BHD0961-BLK1)

Prepared: 04/25/24 Analyzed: 04/30/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0961-BS1)

Prepared: 04/25/24 Analyzed: 04/30/24

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

Duplicate (BHD0961-DUP1)

Source: 2404167-01

Prepared: 04/25/24 Analyzed: 04/30/24

Specific Conductance (EC) 0.202 0.0100 mmhos/cm 0.203 0.444 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
 Project Manager: Paul Henchan

Reported:
 07/08/24 13:12

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 BHD0962 - General Preparation

LCS (BHD0962-BS1)

Prepared: 04/25/24 Analyzed: 04/30/24

pH	9.20	pH Units	9.18	100	95-105
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Duplicate (BHD0962-DUP1)

Source: 2404167-01

Prepared: 04/25/24 Analyzed: 04/30/24

pH	8.52	pH Units	8.46	0.707	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Rouse USX A05-06

Project Number: UWRWE-A2956-ABN
Project Manager: Paul Henchan

Reported:
07/08/24 13:12

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.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- O-05 This sample was extracted outside of the EPA recommended holding time.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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