

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 28, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Federal Palomino 11-13 Tank Battery
Work Order #2404018

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/24 16:20. 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 - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01 0.5FT	2404018-01	Soil	03/30/24 00:00	04/02/24 16:20
AST02 0.5FT	2404018-02	Soil	03/30/24 00:00	04/02/24 16:20
AST03 0.5FT	2404018-03	Soil	03/30/24 00:00	04/02/24 16:20
PWV-B 4FT	2404018-04	Soil	03/30/24 00:00	04/02/24 16:20
PWV-S 2FT	2404018-05	Soil	03/30/24 00:00	04/02/24 16:20
SEP01 2FT	2404018-06	Soil	03/30/24 00:00	04/02/24 16:20
BKG01 0.5FT	2404018-07	Soil	03/30/24 00:00	04/02/24 16:20
BKG01 2FT	2404018-08	Soil	03/30/24 00:00	04/02/24 16:20
BKG01 4FT	2404018-09	Soil	03/30/24 00:00	04/02/24 16:20
BKG02 0.5FT	2404018-10	Soil	03/30/24 00:00	04/02/24 16:20
BKG02 2FT	2404018-11	Soil	03/30/24 00:00	04/02/24 16:20
BKG02 4FT	2404018-12	Soil	03/30/24 00:00	04/02/24 16:20
BKG03 0.5FT	2404018-13	Soil	03/30/24 00:00	04/02/24 16:20
BKG03 2FT	2404018-14	Soil	03/30/24 00:00	04/02/24 16:20
BKG03 4FT	2404018-15	Soil	03/30/24 00:00	04/02/24 16:20

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

Lab ID	Page 1 of 1
2404018	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble/Cherton	
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#: UWRWE-A3397-ABN	
Phone: 603-477-6907	Project Name: Federal Palomares 11-13 Tanks Battery	PO/Billing Codes:	
Sampler Name: Aaron Otilar	Project Number: C024-070	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	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915		Metals (915-1)
1	AST01 0.5FT	3/30/24		2			X			X			X	X	X	X	X	
2	AST02 0.5FT																	
3	AST03 0.5FT																	
4	PWV-B 4FT																	
5	PWV-S 2FT																	
6	SEP01 2FT																	
7	BKG01 0.5FT														X	X		
8	BKG01 2FT																	
9	BKG01 4FT																	
10	BKG02 0.6FT																	
11	BKG02 2.05FT																	
12	BKG02 4FT																	
13	BKG03 0.5FT																	
14	BKG03 2FT																	
15	BKG03 4FT																	

Relinquished by: <i>Aaron Otilar</i>	Date/Time: 4/2/24 1620	Received by: Summit North Office	Date/Time: 4/2/24 1620	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time: 4/2/24 1620	Received by: <i>[Signature]</i>	Date/Time: 4/2/24 1620	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: 11.7	Corrected Temperature: 0	IR gun #: /	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2404018

Client: Framont

Client Project ID: Federal Palomino 11-13 Tank Battery

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

Airbill #: _____

Matrix (Check all that apply)

Air

Sol/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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	none
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 checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AS NO SO
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

4/2/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

AST01 0.5FT
2404018-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0141	04/04/24	04/06/24	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: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0238	59.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0455	114 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0143	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.45	59.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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AST01 0.5FT
2404018-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0177	04/05/24	04/08/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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05/28/24 07:48

AST01 0.5FT
2404018-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.75	0.200	mg/kg dry	1	BHD0678	04/19/24	05/09/24	EPA 6020B	
Barium	82.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.34	0.400	"	"	"	"	"	"	
Lead	3.39	0.200	"	"	"	"	"	"	
Nickel	2.54	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.74	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.2	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	9.40	0.0500	"	"	"	"	"	"	
Sodium	0.821	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0263	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Project Number: UWRWE-A3397-ABN
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Reported:
 05/28/24 07:48

AST01 0.5FT
2404018-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0993	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Project Number: UWRWE-A3397-ABN
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Reported:
05/28/24 07:48

AST02 0.5FT
2404018-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0141	04/04/24	04/06/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0262	65.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0453	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0143	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.70	53.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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05/28/24 07:48

AST02 0.5FT
2404018-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0177	04/05/24	04/08/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0145	43.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
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Reported:
05/28/24 07:48

AST02 0.5FT
2404018-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.37	0.200	mg/kg dry	1	BHD0678	04/19/24	05/09/24	EPA 6020B
Barium	103	0.400	"	"	"	"	"	"
Cadmium	0.203	0.200	"	"	"	"	"	"
Copper	4.56	0.400	"	"	"	"	"	"
Lead	8.18	0.200	"	"	"	"	"	"
Nickel	3.65	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	15.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.9	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	4.24	0.0500	"	"	"	"	"	"	
Sodium	2.86	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.122	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Federal Palomino 11-13 Tank Battery
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Reported:
 05/28/24 07:48

AST02 0.5FT
2404018-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.284	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

AST03 0.5FT
2404018-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0141	04/04/24	04/06/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0248	62.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0143	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.30	42.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

AST03 0.5FT
2404018-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0177	04/05/24	04/08/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

AST03 0.5FT
2404018-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.13	0.200	mg/kg dry	1	BHD0678	04/19/24	05/09/24	EPA 6020B
Barium	82.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.40	0.400	"	"	"	"	"	"
Lead	5.61	0.200	"	"	"	"	"	"
Nickel	2.98	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	13.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.1	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	4.24	0.0500	"	"	"	"	"	"	
Sodium	2.58	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.118	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

AST03 0.5FT
2404018-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.231	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

PWV-B 4FT
2404018-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0141	04/04/24	04/06/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0233	58.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0143	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.00	56.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

PWV-B 4FT
2404018-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0177	04/05/24	04/08/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

PWV-B 4FT
2404018-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.01	0.200	mg/kg dry	1	BHD0678	04/19/24	05/09/24	EPA 6020B
Barium	216	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	4.48	0.400	"	"	"	"	"	"
Lead	9.17	0.200	"	"	"	"	"	"
Nickel	4.48	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	18.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	136	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	3.50	0.0500	"	"	"	"	"	"	
Sodium	11.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.266	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

PWV-B 4FT
2404018-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.250	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

Summit Scientific

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

PWV-S 2FT
2404018-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0141	04/04/24	04/06/24	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: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0262	65.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0443	111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0143	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.42	43.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
05/28/24 07:48

PWV-S 2FT
2404018-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0177	04/05/24	04/08/24	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	0.00580	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00718	0.00500	"	"	"	"	"	"	

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

PWV-S 2FT
2404018-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.00	0.200	mg/kg dry	1	BHD0678	04/19/24	05/09/24	EPA 6020B
Barium	231	0.400	"	"	"	"	"	"
Cadmium	0.206	0.200	"	"	"	"	"	"
Copper	4.41	0.400	"	"	"	"	"	"
Lead	8.97	0.200	"	"	"	"	"	"
Nickel	4.35	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	18.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	158	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	4.24	0.0500	"	"	"	"	"	"	
Sodium	11.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.242	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

PWV-S 2FT
2404018-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.2		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.224	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.62		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

SEP01 2FT
2404018-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0141	04/04/24	04/06/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0233	58.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0457	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0143	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.3	98.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

SEP01 2FT
2404018-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0177	04/05/24	04/08/24	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: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0211	63.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0212	63.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

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 - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

SEP01 2FT
2404018-06 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.29	0.200	mg/kg dry	1	BHD0678	04/19/24	05/09/24	EPA 6020B
Barium	355	0.400	"	"	"	"	"	"
Cadmium	0.351	0.200	"	"	"	"	"	"
Copper	6.68	0.400	"	"	"	"	"	"
Lead	10.0	0.200	"	"	"	"	"	"
Nickel	6.63	0.400	"	"	"	"	"	"
Silver	0.0295	0.0200	"	"	"	"	"	"
Zinc	25.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	118	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	7.62	0.0500	"	"	"	"	"	"	
Sodium	6.59	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.159	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

SEP01 2FT
2404018-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	1	BHD0300	04/10/24	04/10/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.356	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG01 0.5FT
2404018-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.32	0.200	mg/kg dry	1	BHD0678	04/19/24	05/09/24	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	0.210	0.200	"	"	"	"	"	"	
Copper	5.13	0.400	"	"	"	"	"	"	
Lead	8.58	0.200	"	"	"	"	"	"	
Nickel	4.77	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	48.3	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	3.51	0.0500	"	"	"	"	"	"	
Sodium	4.95	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG01 0.5FT
2404018-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.185	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.214	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG01 2FT
2404018-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.41	0.200	mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	135	0.400	"	"	"	"	"	"	
Cadmium	0.218	0.200	"	"	"	"	"	"	
Copper	5.32	0.400	"	"	"	"	"	"	
Lead	9.13	0.200	"	"	"	"	"	"	
Nickel	5.02	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	21.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	54.1	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	3.78	0.0500	"	"	"	"	"	"	
Sodium	4.60	0.0500	"	"	"	"	"	"	

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Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG01 2FT
2404018-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.163	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.1		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.188	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG01 4FT
2404018-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.73	0.200	mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	191	0.400	"	"	"	"	"	"	
Cadmium	0.249	0.200	"	"	"	"	"	"	
Copper	5.36	0.400	"	"	"	"	"	"	
Lead	9.62	0.200	"	"	"	"	"	"	
Nickel	5.37	0.400	"	"	"	"	"	"	
Silver	0.0258	0.0200	"	"	"	"	"	"	
Zinc	20.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	63.8	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	6.70	0.0500	"	"	"	"	"	"	
Sodium	50.9	0.0500	"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

BKG01 4FT
2404018-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.62	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.777	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

Summit Scientific

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG02 0.5FT
2404018-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.19	0.180		mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	144	0.360		"	"	"	"	"	"	
Cadmium	0.217	0.180		"	"	"	"	"	"	
Copper	5.01	0.360		"	"	"	"	"	"	
Lead	9.61	0.180		"	"	"	"	"	"	
Nickel	4.53	0.360		"	"	"	"	"	"	
Silver	0.0216	0.0180		"	"	"	"	"	"	
Zinc	18.9	0.360		"	"	"	"	"	"	
Selenium	ND	0.234		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	70.0	0.0500		mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	3.30	0.0500		"	"	"	"	"	"	
Sodium	1.38	0.0500		"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

BKG02 0.5FT
2404018-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0438	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG02 2FT
2404018-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.04	0.200	mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	113	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.64	0.400	"	"	"	"	"	"	
Lead	8.37	0.200	"	"	"	"	"	"	
Nickel	4.23	0.400	"	"	"	"	"	"	
Silver	0.0223	0.0200	"	"	"	"	"	"	
Zinc	17.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	61.7	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	3.91	0.0500	"	"	"	"	"	"	
Sodium	0.939	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG02 2FT
2404018-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0313	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG02 4FT
2404018-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.42	0.200		mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	415	0.400		"	"	"	"	"	"	
Cadmium	0.310	0.200		"	"	"	"	"	"	
Copper	5.78	0.400		"	"	"	"	"	"	
Lead	9.63	0.200		"	"	"	"	"	"	
Nickel	6.06	0.400		"	"	"	"	"	"	
Silver	0.0314	0.0200		"	"	"	"	"	"	
Zinc	23.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	239	0.0500		mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	6.02	0.0500		"	"	"	"	"	"	
Sodium	71.1	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG02 4FT
2404018-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.632	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG03 0.5FT
2404018-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.19	0.200		mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	122	0.400		"	"	"	"	"	"	
Cadmium	0.214	0.200		"	"	"	"	"	"	
Copper	4.76	0.400		"	"	"	"	"	"	
Lead	9.24	0.200		"	"	"	"	"	"	
Nickel	4.35	0.400		"	"	"	"	"	"	
Silver	0.0270	0.0200		"	"	"	"	"	"	
Zinc	18.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	45.3	0.0500		mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	3.52	0.0500		"	"	"	"	"	"	
Sodium	3.43	0.0500		"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

BKG03 0.5FT
2404018-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.132	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.269	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG03 2FT
2404018-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.91	0.200	mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	114	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.66	0.400	"	"	"	"	"	"	
Lead	8.07	0.200	"	"	"	"	"	"	
Nickel	4.22	0.400	"	"	"	"	"	"	
Silver	0.0208	0.0200	"	"	"	"	"	"	
Zinc	17.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	31.8	0.0500	mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	3.14	0.0500	"	"	"	"	"	"	
Sodium	3.67	0.0500	"	"	"	"	"	"	

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Project: Noble - Federal Palomino 11-13 Tank Battery
Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG03 2FT
2404018-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.166	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.232	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

BKG03 4FT
2404018-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0371	04/11/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.85	0.200		mg/kg dry	1	BHD0678	04/19/24	05/10/24	EPA 6020B	
Barium	363	0.400		"	"	"	"	"	"	
Cadmium	0.256	0.200		"	"	"	"	"	"	
Copper	4.32	0.400		"	"	"	"	"	"	
Lead	9.92	0.200		"	"	"	"	"	"	
Nickel	4.42	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	17.1	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0460	04/15/24	04/17/24	EPA 7196A	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	81.3	0.0500		mg/L dry	1	BHD0695	04/20/24	05/06/24	EPA 6020B	
Magnesium	5.09	0.0500		"	"	"	"	"	"	
Sodium	50.6	0.0500		"	"	"	"	"	"	

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

BKG03 4FT
2404018-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.47	0.00100	units	1	BHE0266	05/08/24	05/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.7		%	1	BHD0300	04/10/24	04/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.560	0.0100	mmhos/cm	1	BHD0696	04/20/24	04/21/24	EPA 120.1	

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

Date Sampled: **03/30/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHD0697	04/20/24	04/21/24	EPA 9045D	

Summit Scientific

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

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 BHD0141 - EPA 5030 Soil MS

Blank (BHD0141-BLK1)

Prepared: 04/04/24 Analyzed: 04/06/24

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>	0.0278		"	0.0400		69.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0429		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.5	50-150			

LCS (BHD0141-BS1)

Prepared: 04/04/24 Analyzed: 04/06/24

Benzene	0.0721	0.0020	mg/kg	0.100		72.1	70-130			
Toluene	0.108	0.0050	"	0.100		108	70-130			
Ethylbenzene	0.0976	0.0050	"	0.100		97.6	70-130			
m,p-Xylene	0.199	0.010	"	0.200		99.4	70-130			
o-Xylene	0.0992	0.0050	"	0.100		99.2	70-130			
1,2,4-Trimethylbenzene	0.0878	0.0050	"	0.100		87.8	70-130			
1,3,5-Trimethylbenzene	0.0909	0.0050	"	0.100		90.9	70-130			
Naphthalene	0.0768	0.0038	"	0.100		76.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0261		"	0.0400		65.3	50-150			
<i>Surrogate: Toluene-d8</i>	0.0473		"	0.0400		118	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0408		"	0.0400		102	50-150			

Matrix Spike (BHD0141-MS1)

Source: 2404018-01

Prepared: 04/04/24 Analyzed: 04/06/24

Benzene	0.0624	0.0020	mg/kg	0.100	ND	62.4	70-130			QM-07
Toluene	0.0877	0.0050	"	0.100	ND	87.7	70-130			
Ethylbenzene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	82.8	70-130			
o-Xylene	0.0876	0.0050	"	0.100	ND	87.6	70-130			
1,2,4-Trimethylbenzene	0.0745	0.0050	"	0.100	ND	74.5	70-130			
1,3,5-Trimethylbenzene	0.0770	0.0050	"	0.100	ND	77.0	70-130			
Naphthalene	0.0772	0.0038	"	0.100	ND	77.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0231		"	0.0400		57.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0433		"	0.0400		108	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0415		"	0.0400		104	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

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 BHD0141 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0141-MSD1)	Source: 2404018-01			Prepared: 04/04/24 Analyzed: 04/06/24						
Benzene	0.0618	0.0020	mg/kg	0.100	ND	61.8	70-130	0.918	30	QM-07
Toluene	0.0855	0.0050	"	0.100	ND	85.5	70-130	2.49	30	
Ethylbenzene	0.0794	0.0050	"	0.100	ND	79.4	70-130	6.33	30	
m,p-Xylene	0.155	0.010	"	0.200	ND	77.6	70-130	6.55	30	
o-Xylene	0.0795	0.0050	"	0.100	ND	79.5	70-130	9.69	30	
1,2,4-Trimethylbenzene	0.0646	0.0050	"	0.100	ND	64.6	70-130	14.1	30	QM-07
1,3,5-Trimethylbenzene	0.0677	0.0050	"	0.100	ND	67.7	70-130	12.8	30	QM-07
Naphthalene	0.0741	0.0038	"	0.100	ND	74.1	70-130	4.05	30	
Surrogate: 1,2-Dichloroethane-d4	0.0209		"	0.0400		52.3	50-150			
Surrogate: Toluene-d8	0.0451		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

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 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

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 BHD0143 - EPA 3550A

Blank (BHD0143-BLK1)

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	16.1		"	12.5		129		30-150			

LCS (BHD0143-BS1)

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	509	50	mg/kg	500		102		70-130			
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.3		30-150			

Matrix Spike (BHD0143-MS1)

Source: 2404018-01

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	330	50	mg/kg	500	30.5	59.9		70-130			QM-07
Surrogate: <i>o</i> -Terphenyl	6.60		"	12.5		52.8		30-150			

Matrix Spike Dup (BHD0143-MSD1)

Source: 2404018-01

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	287	50	mg/kg	500	30.5	51.3		70-130	13.9	20	QM-07
Surrogate: <i>o</i> -Terphenyl	7.12		"	12.5		56.9		30-150			

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Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

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 BHD0177 - EPA 5030 Soil MS

Blank (BHD0177-BLK1)

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

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>0.0318</i>		"	<i>0.0333</i>		<i>95.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0353</i>		"	<i>0.0333</i>		<i>106</i>	<i>40-150</i>			

LCS (BHD0177-BS1)

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

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	0.0312	0.00500	"	0.0333	93.7	30-120
Benzo (a) pyrene	0.0247	0.00500	"	0.0333	74.1	30-120
Benzo (b) fluoranthene	0.0285	0.00500	"	0.0333	85.4	30-120
Benzo (k) fluoranthene	0.0325	0.00500	"	0.0333	97.5	30-120
Chrysene	0.0342	0.00500	"	0.0333	102	30-120
Dibenz (a,h) anthracene	0.0169	0.00500	"	0.0333	50.8	30-120
Fluoranthene	0.0331	0.00500	"	0.0333	99.4	30-120
Fluorene	0.0311	0.00500	"	0.0333	93.2	30-120
Indeno (1,2,3-cd) pyrene	0.0161	0.00500	"	0.0333	48.3	30-120
Pyrene	0.0340	0.00500	"	0.0333	102	35-142
1-Methylnaphthalene	0.0250	0.00500	"	0.0333	75.0	35-142
2-Methylnaphthalene	0.0403	0.00500	"	0.0333	121	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0309</i>		"	<i>0.0333</i>	<i>92.6</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0325</i>		"	<i>0.0333</i>	<i>97.4</i>	<i>40-150</i>

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

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 BHD0177 - EPA 5030 Soil MS

Matrix Spike (BHD0177-MS1)	Source: 2404018-01			Prepared: 04/05/24 Analyzed: 04/08/24						
Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	65.9	31-137			
Anthracene	0.0227	0.00500	"	0.0333	ND	68.1	30-120			
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.0	30-120			
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.1	30-120			
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.3	30-120			
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Chrysene	0.0227	0.00500	"	0.0333	ND	68.2	30-120			
Dibenz (a,h) anthracene	0.0118	0.00500	"	0.0333	ND	35.5	30-120			
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.7	30-120			
Fluorene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0107	0.00500	"	0.0333	ND	32.0	30-120			
Pyrene	0.0229	0.00500	"	0.0333	ND	68.6	35-142			
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.1	15-130			
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.5	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0204</i>		<i>"</i>	<i>0.0333</i>		<i>61.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0237</i>		<i>"</i>	<i>0.0333</i>		<i>71.1</i>	<i>40-150</i>			

Matrix Spike Dup (BHD0177-MSD1)	Source: 2404018-01			Prepared: 04/05/24 Analyzed: 04/08/24						
Acenaphthene	0.0204	0.00500	mg/kg	0.0333	ND	61.1	31-137	7.52	30	
Anthracene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	3.79	30	
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.2	30-120	1.95	30	
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	1.37	30	
Benzo (b) fluoranthene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	1.51	30	
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.2	30-120	5.34	30	
Chrysene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	4.04	30	
Dibenz (a,h) anthracene	0.0126	0.00500	"	0.0333	ND	37.8	30-120	6.11	30	
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.2	30-120	2.29	30	
Fluorene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	5.26	30	
Indeno (1,2,3-cd) pyrene	0.0104	0.00500	"	0.0333	ND	31.3	30-120	2.23	30	
Pyrene	0.0222	0.00500	"	0.0333	ND	66.5	35-142	3.19	30	
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130	10.8	50	
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.5	15-130	1.40	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0190</i>		<i>"</i>	<i>0.0333</i>		<i>57.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0232</i>		<i>"</i>	<i>0.0333</i>		<i>69.5</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

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

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

Batch BHD0371 - EPA 3050B

Blank (BHD0371-BLK1)		Prepared: 04/11/24 Analyzed: 05/22/24									
Boron	ND	2.00	mg/L								
LCS (BHD0371-BS1)		Prepared: 04/11/24 Analyzed: 05/22/24									
Boron	6.15	2.00	mg/L	5.00	123	80-120					QM-07
Duplicate (BHD0371-DUP1)		Source: 2404018-01 Prepared: 04/11/24 Analyzed: 05/22/24									
Boron	0.0357	2.00	mg/L		0.0403			12.2		20	
Matrix Spike (BHD0371-MS1)		Source: 2404018-01 Prepared: 04/11/24 Analyzed: 05/22/24									
Boron	6.02	2.00	mg/L	5.00	0.0403	120	75-125				
Matrix Spike Dup (BHD0371-MSD1)		Source: 2404018-01 Prepared: 04/11/24 Analyzed: 05/22/24									
Boron	6.05	2.00	mg/L	5.00	0.0403	120	75-125	0.597		25	

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Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

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 BHD0678 - EPA 3050B

Blank (BHD0678-BLK1)

Prepared: 04/19/24 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 (BHD0678-BS1)

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	36.6	0.200	mg/kg wet	40.0	91.6	80-120
Barium	37.7	0.400	"	40.0	94.3	80-120
Cadmium	1.91	0.200	"	2.00	95.6	80-120
Copper	36.9	0.400	"	40.0	92.3	80-120
Lead	18.4	0.200	"	20.0	92.2	80-120
Nickel	36.2	0.400	"	40.0	90.5	80-120
Silver	1.90	0.0200	"	2.00	95.1	80-120
Zinc	36.4	0.400	"	40.0	91.1	80-120
Selenium	4.06	0.260	"	4.00	102	80-120

Duplicate (BHD0678-DUP1)

Source: 2404018-01

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	1.63	0.180	mg/kg dry	1.75	6.86	20
Barium	74.4	0.360	"	82.0	9.61	20
Cadmium	0.102	0.180	"	0.112	9.07	20
Copper	3.93	0.360	"	4.34	9.88	20
Lead	3.05	0.180	"	3.39	10.5	20
Nickel	2.30	0.360	"	2.54	10.1	20
Silver	0.00528	0.0180	"	0.00749	34.6	20
Zinc	8.02	0.360	"	8.74	8.58	20
Selenium	ND	0.234	"	ND		20

QR-01

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Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

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 BHD0678 - EPA 3050B

Matrix Spike (BHD0678-MS1)

Source: 2404018-01

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	39.3	0.200	mg/kg dry	39.7	1.75	94.6	75-125				
Barium	78.8	0.400	"	39.7	82.0	NR	75-125				QM-07
Cadmium	2.07	0.200	"	1.99	0.112	98.6	75-125				
Copper	41.9	0.400	"	39.7	4.34	94.6	75-125				
Lead	21.3	0.200	"	19.9	3.39	90.2	75-125				
Nickel	39.2	0.400	"	39.7	2.54	92.4	75-125				
Silver	1.89	0.0200	"	1.99	0.00749	95.0	75-125				
Zinc	46.7	0.400	"	39.7	8.74	95.6	75-125				
Selenium	3.83	0.260	"	3.97	ND	96.5	75-125				

Matrix Spike Dup (BHD0678-MSD1)

Source: 2404018-01

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	39.2	0.200	mg/kg dry	39.7	1.75	94.2	75-125	0.392	25		
Barium	78.5	0.400	"	39.7	82.0	NR	75-125	0.310	25		QM-07
Cadmium	2.05	0.200	"	1.99	0.112	97.6	75-125	0.887	25		
Copper	41.7	0.400	"	39.7	4.34	94.0	75-125	0.569	25		
Lead	21.3	0.200	"	19.9	3.39	89.9	75-125	0.265	25		
Nickel	39.0	0.400	"	39.7	2.54	91.8	75-125	0.627	25		
Silver	1.89	0.0200	"	1.99	0.00749	94.9	75-125	0.0629	25		
Zinc	46.7	0.400	"	39.7	8.74	95.5	75-125	0.113	25		
Selenium	3.92	0.260	"	3.97	ND	98.7	75-125	2.27	25		

Post Spike (BHD0678-PS1)

Source: 2404018-01

Prepared: 04/19/24 Analyzed: 05/10/24

Arsenic	105		ug/l	100	4.17	101	75-125				
Barium	289		"	100	195	93.8	75-125				
Cadmium	5.47		"	5.00	0.266	104	75-125				
Copper	109		"	100	10.3	98.4	75-125				
Lead	57.3		"	50.0	8.09	98.4	75-125				
Nickel	103		"	100	6.06	97.3	75-125				
Silver	5.11		"	5.00	0.0179	102	75-125				
Zinc	121		"	100	20.8	100	75-125				
Selenium	10.1		"	10.0	0.0397	101	75-125				

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0460 - 3060A Mod

Blank (BHD0460-BLK1)

Prepared: 04/15/24 Analyzed: 04/17/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0460-BS1)

Prepared: 04/15/24 Analyzed: 04/17/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHD0460-DUP1)

Source: 2404018-01

Prepared: 04/15/24 Analyzed: 04/17/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0460-MS1)

Source: 2404018-01

Prepared: 04/15/24 Analyzed: 04/17/24

Chromium, Hexavalent 25.3 0.30 mg/kg dry 26.2 ND 96.4 75-125

Matrix Spike Dup (BHD0460-MSD1)

Source: 2404018-01

Prepared: 04/15/24 Analyzed: 04/17/24

Chromium, Hexavalent 25.7 0.30 mg/kg dry 26.2 ND 98.0 75-125 1.65 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

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 BHD0695 - General Preparation

Blank (BHD0695-BLK1)

Prepared: 04/20/24 Analyzed: 05/07/24

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

LCS (BHD0695-BS1)

Prepared: 04/20/24 Analyzed: 05/06/24

Calcium	5.76	0.0500	mg/L wet	5.00	115	70-130				
Magnesium	5.25	0.0500	"	5.00	105	70-130				
Sodium	5.47	0.0500	"	5.00	109	70-130				

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

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

Summit Scientific

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

Batch BHD0300 - General Preparation

Duplicate (BHD0300-DUP1)

Source: 2404018-01

Prepared & Analyzed: 04/10/24

% Solids	94.8		%		95.4			0.558	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery
 Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

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 BHD0696 - General Preparation

Blank (BHD0696-BLK1)

Prepared: 04/20/24 Analyzed: 04/21/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0696-BS1)

Prepared: 04/20/24 Analyzed: 04/21/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHD0696-DUP1)

Source: 2404018-01

Prepared: 04/20/24 Analyzed: 04/21/24

Specific Conductance (EC) 0.101 0.0100 mmhos/cm 0.0993 1.33 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
 Project Manager: Paul Henchan

Reported:
 05/28/24 07:48

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 BHD0697 - General Preparation

LCS (BHD0697-BS1)

Prepared: 04/20/24 Analyzed: 04/21/24

pH	9.11	pH Units	9.18	99.2	95-105
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Duplicate (BHD0697-DUP1)

Source: 2404018-01

Prepared: 04/20/24 Analyzed: 04/21/24

pH	8.79	pH Units	8.30	5.73	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Federal Palomino 11-13 Tank Battery

Project Number: UWRWE-A3397-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:48

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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