

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 10, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Work Order #2410146

Enclosed are the results of analyses for samples received by Summit Scientific on 10/09/24 18:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT

DATA SUBJECT TO CHANGE



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN

Project Manager: Paul Henchan

Reported:
10/10/24 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV01E - 5FT	2410146-01	Soil	10/09/24 00:00	10/09/24 18:36
PWV01S - 5FT	2410146-02	Soil	10/09/24 00:00	10/09/24 18:36
PWV01B - 6FT	2410146-03	Soil	10/09/24 00:00	10/09/24 18:36

DRAFT REPORT

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.



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

Lab ID 2410146 Page 1 of 1

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: <u>Noble</u>	
Address:	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: <u>Wells Ranch USX AE T6N-R62W-S29</u>	PO/Billing Codes: <u>UWRWE-A4187-ABN</u>	
Sampler Name: Stanley Gilbert	Project Number:	Contact: <u>Mike Montoya</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Pb, Boron	Metals (915)		TDS, Chloride, Sulfate
1	PWV01 E-5FT	10/9/24		2			X			X			X	X	X	X			
2	PWV01 S-5FT	I		I															
3	PWV01 B-6FT	I		I															
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/9/24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/9/24 10:36</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>5.1°</u>	Corrected Temperature: _____	IR gun #: <u>92</u>	HNO3 lot #: _____			

S₂

Sample Receipt Checklist

S2 Work Order# 2410146

Client: Fremont Environmental Client Project ID: Wells Bench USX AE T6N-R 62W-

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: S29602

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

Temp (°C) 5.10c Thermometer # 82

	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"/>	<u>on 14</u>
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Some data</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Control Form #: SRC-001

LTZ

Custodian Printed Name

10/9/24 10:36

Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/10/24 07:26

PWV01E - 5FT
2410146-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0348	10/09/24	10/10/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.055	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.13	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.15	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.040	0.0050		"	"	"	"	"	"	
Naphthalene	0.056	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.8	0.50		"	"	"	"	"	"	

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0382	95.6 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0405	101 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0430	107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

PRELIM

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0350	10/09/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	10.1	80.4 %		30-150		"	"	"	"	

DRAFT REPORT

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/10/24 07:26

PWV01S - 5FT
2410146-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0348	10/09/24	10/10/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	1.3	0.0050	"	"	"	"	"	"	PRELIM-E
Xylenes (total)	1.7	0.010	"	"	"	"	"	"	PRELIM-E
1,2,4-Trimethylbenzene	1.8	0.0050	"	"	"	"	"	"	PRELIM-E
1,3,5-Trimethylbenzene	0.31	0.0050	"	"	"	"	"	"	
Naphthalene	0.36	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	240	0.50	"	"	"	"	"	"	PRELIM-E

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0473	118 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0427	107 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.138	345 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

PRELIM

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	190	50	mg/kg	1	BHJ0350	10/09/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	9.28	74.2 %	30-150		"	"	"	"	

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Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/10/24 07:26

PWV01B - 6FT
2410146-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0348	10/09/24	10/10/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.023	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.030	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.073	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.023	0.0050	"	"	"	"	"	"	
Naphthalene	0.042	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4.9	0.50	"	"	"	"	"	"	

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0380	95.0 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0410	102 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0442	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

PRELIM

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0350	10/09/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/09/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	10.8	86.2 %	30-150		"	"	"	"	

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Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/10/24 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0348 - EPA 5030 Soil MS

Blank (BHJ0348-BLK1)

Prepared: 10/09/24 Analyzed: 10/10/24

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>0.0350</i>		<i>"</i>	<i>0.0400</i>		<i>87.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>50-150</i>			

LCS (BHJ0348-BS1)

Prepared: 10/09/24 Analyzed: 10/10/24

Benzene	0.0886	0.0020	mg/kg	0.100		88.6	70-130			
Toluene	0.0871	0.0050	"	0.100		87.1	70-130			
Ethylbenzene	0.0887	0.0050	"	0.100		88.7	70-130			
m,p-Xylene	0.174	0.010	"	0.200		87.0	70-130			
o-Xylene	0.0893	0.0050	"	0.100		89.3	70-130			
1,2,4-Trimethylbenzene	0.0850	0.0050	"	0.100		85.0	70-130			
1,3,5-Trimethylbenzene	0.0855	0.0050	"	0.100		85.5	70-130			
Naphthalene	0.0810	0.0038	"	0.100		81.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0354</i>		<i>"</i>	<i>0.0400</i>		<i>88.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>50-150</i>			

Matrix Spike (BHJ0348-MS1)

Source: 2410133-01

Prepared: 10/09/24 Analyzed: 10/10/24

Benzene	0.0821	0.0020	mg/kg	0.100	ND	82.1	70-130			
Toluene	0.0819	0.0050	"	0.100	ND	81.9	70-130			
Ethylbenzene	0.0807	0.0050	"	0.100	ND	80.7	70-130			
m,p-Xylene	0.157	0.010	"	0.200	ND	78.6	70-130			
o-Xylene	0.0790	0.0050	"	0.100	ND	79.0	70-130			
1,2,4-Trimethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130			
1,3,5-Trimethylbenzene	0.0775	0.0050	"	0.100	ND	77.5	70-130			
Naphthalene	0.0752	0.0038	"	0.100	ND	75.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>			

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 Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/10/24 07:26

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		

Batch BHJ0348 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0348-MSD1)	Source: 2410133-01			Prepared: 10/09/24 Analyzed: 10/10/24						
Benzene	0.0803	0.0020	mg/kg	0.100	ND	80.3	70-130	2.18	30	
Toluene	0.0793	0.0050	"	0.100	ND	79.3	70-130	3.24	30	
Ethylbenzene	0.0807	0.0050	"	0.100	ND	80.7	70-130	0.0372	30	
m,p-Xylene	0.159	0.010	"	0.200	ND	79.5	70-130	1.18	30	
o-Xylene	0.0805	0.0050	"	0.100	ND	80.5	70-130	1.81	30	
1,2,4-Trimethylbenzene	0.0771	0.0050	"	0.100	ND	77.1	70-130	2.12	30	
1,3,5-Trimethylbenzene	0.0786	0.0050	"	0.100	ND	78.6	70-130	1.46	30	
Naphthalene	0.0740	0.0038	"	0.100	ND	74.0	70-130	1.65	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0376</i>		<i>"</i>	<i>0.0400</i>		<i>94.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.5</i>	<i>50-150</i>			

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 Project Number: UWRWE-A4187-ABN
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Reported:
 10/10/24 07:26

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 BHJ0350 - EPA 3550A

Blank (BHJ0350-BLK1)												
Prepared: 10/09/24 Analyzed: 10/10/24											PRELIM	
C10-C28 (DRO)	ND	50	mg/kg									
C28-C36 (ORO)	ND	50	"									
<i>Surrogate: o-Terphenyl</i>	<i>13.0</i>		<i>"</i>	<i>12.5</i>		<i>104</i>	<i>30-150</i>					
LCS (BHJ0350-BS1)												
Prepared: 10/09/24 Analyzed: 10/10/24											PRELIM	
C10-C28 (DRO)	303	50	mg/kg	500		60.6	70-130					
<i>Surrogate: o-Terphenyl</i>	<i>10.8</i>		<i>"</i>	<i>12.5</i>		<i>86.1</i>	<i>30-150</i>					
Matrix Spike (BHJ0350-MS1)												
Source: 2410133-01			Prepared: 10/09/24 Analyzed: 10/10/24									PRELIM
C10-C28 (DRO)	401	50	mg/kg	500	ND	80.1	70-130					
<i>Surrogate: o-Terphenyl</i>	<i>14.3</i>		<i>"</i>	<i>12.5</i>		<i>115</i>	<i>30-150</i>					
Matrix Spike Dup (BHJ0350-MSD1)												
Source: 2410133-01			Prepared: 10/09/24 Analyzed: 10/10/24									PRELIM
C10-C28 (DRO)	414	50	mg/kg	500	ND	82.8	70-130	3.28	20			
<i>Surrogate: o-Terphenyl</i>	<i>13.3</i>		<i>"</i>	<i>12.5</i>		<i>107</i>	<i>30-150</i>					



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Reported:
10/10/24 07:26

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- PRELIM-E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. Dilution and reanalysis are being performed with revised report.
- PRELIM Preliminary sample result. Revised report to follow.
- 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