



LEGEND

-  FENCE LINE
-  CONTAINMENT BERM
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY

**Figure 1
SITE MAP**

Noble Wells Ranch USX BB05-10
 Facility ID - 310299
 NW NE Section 5, T5N, R63W
 Weld County, Colorado

API No. 05-123-26196	Prepared by	Drawn by JMA
Date 8/9/17	Reviewed by	Filename V140A



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 22, 2017

Paul Henehan

Fremont Environmental

1759 Redwing Lane

Broomfield, CO 80020

RE: Noble - Wells Ranch USX BB5-10

Enclosed are the results of analyses for samples received by Summit Scientific on 07/14/17 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ben Shrewsbury', with a long, sweeping horizontal stroke extending to the right.

Ben Shrewsbury

Laboratory Manager



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W Wall 3 Ft	1707102-01	Soil	07/14/17 00:00	07/14/17 17:20
Floor 4 Ft	1707102-02	Soil	07/14/17 00:00	07/14/17 17:20

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

Summit Scientific 1707102

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: Fremont Environmental Project Manager: Paul Henehan
Address: P.O. Box 1289 E-Mail: paulh@fremontenv.com *BILL TO: JACOB*
City/State/Zip: PO Box 1829 Wellington, CO 80549
Phone: 303-956-8714 Fax: Project Name: *NOBLE - WELLS RANCH USX BB5-10*
Sampler Name: Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	GRO/DRO	Naphthalene	SAR	EC	pH	
1	W. WALL 3 FT	7/14/17		1			✓			✓				✓	✓	✓	✓	✓	
2	FLOOR 4 FT			1			✓			✓				✓	✓	✓			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <i>PH/RE</i> Date/Time: 7/14/17 17:20	Received by: <i>SA</i> Date/Time: 7-14-17 17:20	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> <u>Standard</u> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: 5.7 Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: <i>ONIC</i>
Relinquished by: <i>SA</i> Date/Time: 7-14-17 18:30	Received by:		
Relinquished by:	Received by:		

www.s2scientific.com

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

Sample Receipt Checklist

S2 Work Order: 1707102
 Client: FREMONT Client Project ID: NOBLE - WELLS RANCH USX BB5-10
 Shipped Via: P.O. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>15.7</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
<small>NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.</small>				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
<small>Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect</small>				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Murphy
Custodian Printed Name

PA 7-14-17
Signature or Initials of Custodian

18:25
Date/Time



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

W Wall 3 Ft
1707102-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1707129	07/17/17	07/17/17	8015M	

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		108 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1707127	07/17/17	07/19/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	234	10.6	mg/kg dry	1	1707123	07/17/17	07/17/17	EPA 6020/Mod. USDA60 6(2, 3A)	

Summit Scientific

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

**W Wall 3 Ft
1707102-01 (Soil)**

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	255	5.31	mg/kg dry	1	1707123	07/17/17	07/17/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Sodium	32.7	5.31	"	"	"	"	"	"	"
Sodium Adsorption Ratio	0.352		units	"	1707140	07/18/17	07/18/17	"	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30	0.100	pH Units	1	1707166	07/19/17	07/19/17	EPA 9045	
Specific Conductance (EC)	0.0541	0.0100	mmhos/cm	"	1707164	07/19/17	07/19/17	SM 2510B	
% Solids	94.2		%	"	1707133	07/17/17	07/18/17	% calculation	

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Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

Floor 4 Ft
1707102-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1707129	07/17/17	07/17/17	8015M	

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		113 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1707127	07/17/17	07/19/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **07/14/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	21-167		"	"	"	"	

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Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1707129 - EPA 3550A

Blank (1707129-BLK1)

Prepared & Analyzed: 07/17/17

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	13.6		"	12.5		109	30-150				

LCS (1707129-BS1)

Prepared & Analyzed: 07/17/17

C10-C28 (DRO)	520	50	mg/kg	499		104	73-134				
<i>Surrogate: o-Terphenyl</i>	17.0		"	12.5		136	30-150				

Matrix Spike (1707129-MS1)

Source: 1707102-01

Prepared & Analyzed: 07/17/17

C10-C28 (DRO)	517	50	mg/kg	499	18.5	99.9	50-148				
<i>Surrogate: o-Terphenyl</i>	14.9		"	12.5		119	30-150				

Matrix Spike Dup (1707129-MSD1)

Source: 1707102-01

Prepared & Analyzed: 07/17/17

C10-C28 (DRO)	514	50	mg/kg	499	18.5	99.4	50-148	0.512	20		
<i>Surrogate: o-Terphenyl</i>	14.0		"	12.5		112	30-150				

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Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

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 1707127 - EPA 5030 Soil MS

Blank (1707127-BLK1)

Prepared: 07/17/17 Analyzed: 07/19/17

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>21-167</i>			

LCS (1707127-BS1)

Prepared: 07/17/17 Analyzed: 07/19/17

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0767	0.0020	"	0.100		76.7	58-130			
Toluene	0.0812	0.0050	"	0.100		81.2	61-134			
Ethylbenzene	0.0806	0.0050	"	0.0992		81.2	74-139			
m,p-Xylene	0.163	0.010	"	0.200		81.7	73-137			
o-Xylene	0.0873	0.0050	"	0.0980		89.1	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>21-167</i>			

Matrix Spike (1707127-MS1)

Source: 1707102-01

Prepared: 07/17/17 Analyzed: 07/19/17

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0727	0.0020	"	0.100	ND	72.7	30-131			
Toluene	0.0766	0.0050	"	0.100	ND	76.6	30-134			
Ethylbenzene	0.0776	0.0050	"	0.0992	ND	78.2	22-153			
m,p-Xylene	0.152	0.010	"	0.200	ND	76.3	10-159			
o-Xylene	0.0805	0.0050	"	0.0980	ND	82.2	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>21-167</i>			

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

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 1707127 - EPA 5030 Soil MS

Matrix Spike Dup (1707127-MSD1)	Source: 1707102-01			Prepared: 07/17/17	Analyzed: 07/19/17					
Naphthalene	ND	0.010	mg/kg	ND	ND	10-158				42
Benzene	0.0787	0.0020	"	0.100	ND	78.7	30-131	8.01		34
Toluene	0.0841	0.0050	"	0.100	ND	84.1	30-134	9.34		30
Ethylbenzene	0.0835	0.0050	"	0.0992	ND	84.2	22-153	7.38		24
m,p-Xylene	0.165	0.010	"	0.200	ND	82.6	10-159	7.94		68
o-Xylene	0.0863	0.0050	"	0.0980	ND	88.1	31-151	6.94		38
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.6</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>21-167</i>			

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Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1707123 - General Preparation

Blank (1707123-BLK1)

Prepared & Analyzed: 07/17/17

Calcium	ND	10.0	mg/kg wet						
Magnesium	ND	5.00	"						
Sodium	ND	5.00	"						

LCS (1707123-BS1)

Prepared & Analyzed: 07/17/17

Calcium	492	10.0	mg/kg wet	500		98.3	82.9-118		
Magnesium	492	5.00	"	500		98.5	77.1-123		
Sodium	501	5.00	"	500		100	71-129		

Duplicate (1707123-DUP1)

Source: 1707071-01

Prepared & Analyzed: 07/17/17

Calcium	2010	11.1	mg/kg dry		2080			3.63	200
Magnesium	240	5.53	"		239			0.581	200
Sodium	332	5.53	"		328			1.19	200

Matrix Spike (1707123-MS1)

Source: 1707071-01

Prepared & Analyzed: 07/17/17

Calcium	2720	11.1	mg/kg dry	553	2080	116	75-125		
Magnesium	784	5.53	"	553	239	98.6	75-125		
Sodium	894	5.53	"	553	328	102	75-125		

Matrix Spike Dup (1707123-MSD1)

Source: 1707071-01

Prepared & Analyzed: 07/17/17

Calcium	2540	11.1	mg/kg dry	553	2080	83.7	75-125	6.88	25
Magnesium	841	5.53	"	553	239	109	75-125	7.00	25
Sodium	968	5.53	"	553	328	116	75-125	7.94	25

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Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

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

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

Batch 1707133 - General Preparation

Duplicate (1707133-DUP1)	Source: 1707078-03			Prepared: 07/17/17		Analyzed: 07/18/17				
% Solids	91.1		%		90.7			0.440	20	

Batch 1707164 - General Preparation

Blank (1707164-BLK1)				Prepared & Analyzed: 07/19/17						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							

LCS (1707164-BS1)				Prepared & Analyzed: 07/19/17						
Specific Conductance (EC)	0.748	0.0100	mmhos/cm	0.750	99.7	90-110				

Duplicate (1707164-DUP1)	Source: 1707113-01			Prepared & Analyzed: 07/19/17						
Specific Conductance (EC)	0.198	0.0100	mmhos/cm		0.209			5.34	20	

Batch 1707166 - General Preparation

LCS (1707166-BS1)				Prepared & Analyzed: 07/19/17						
pH	8.03	0.100	pH Units	8.00	100	95-105				

Duplicate (1707166-DUP1)	Source: 1707113-01			Prepared & Analyzed: 07/19/17						
pH	6.73	0.100	pH Units		6.81			1.18	20	

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Wells Ranch USX BB5-10

Project Number: [none]
Project Manager: Paul Henehan

Reported:
07/22/17 18:24

Notes and Definitions

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