



LEGEND

	FENCE LINE
	CONTAINMENT BERM
	ABOVE GROUND STORAGE TANK
	FORMER FACILITY

Figure 1
SITE MAP

Noble Roth 1-30
Facility ID - 323442
NE NE Section 30, T6N, R64W
Weld County, Colorado

API No. 05-123-13030	Prepared by JMA	Drawn by JMA	
Date 4/28/17	Reviewed by	Filename V121A	

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 26, 2017

Paul Henehan
Fremont Environmental
1759 Redwing Lane
Broomfield, CO 80020
RE: Noble - Roth 1-30

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/17 11:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N. Wall 3 FT	1704196-01	Soil	04/18/17 00:00	04/19/17 11:05
Floor 6 FT	1704196-02	Soil	04/18/17 00:00	04/19/17 11:05

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

Summit Scientific 1704196

S₂

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 Howard*
City/State/Zip: PO Box 1829 Wellington, CO 80549
Phone: 303-956-8714 Fax: Project Name: *Noble - Roth 1-30*
Sampler Name: *HENEHAN* Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	GRO/DRO	Napthalene	SAR	EC	Ph	
1	N. WALL 3FT	4/18/17		1			✓			✓			✓	✓	✓	✓	✓		
2	FLOOR 6 FT			1			✓			✓			✓	✓	✓	✓	✓		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <i>JA/FE</i>	Date/Time: <i>4/19/17 11:05</i>	Received by: <i>JA</i>	Date/Time: <i>4-19-17 11:05</i>	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: Intact: <u>Yes</u> No	Notes: <i>on 10</i> <i>7.4</i>
Relinquished by: <i>JA</i>	Date/Time: <i>4-19-17 17:55</i>	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

www.s2scientific.com

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

Sample Receipt Checklist

S2 Work Order: 1704190

Client: Fremont Client Project ID: Noble - Roth 1-30

Shipped Via: H.D. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>7.4</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>on ice</u>
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
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"/>		<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"/>	
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
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

4-19-17
Signature or Initials of Custodian

18:00
Date/Time



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30
Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

N. Wall 3 FT
1704196-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1704210	04/20/17	04/21/17	8015M	

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1704212	04/20/17	04/21/17	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: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	21-167		"	"	"	"	

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

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3440	11.5	mg/kg dry	1	1704204	04/19/17	04/20/17	EPA 6020/Mod. USDA60 6(2, 3A)	

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30
Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

N. Wall 3 FT
1704196-01 (Soil)

Summit Scientific

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

Magnesium	717	5.75	mg/kg dry	1	1704204	04/19/17	04/20/17	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium	55.1	5.75	"	"	"	"	"	"
Sodium Adsorption Ratio	0.223		units	"	1704227	04/21/17	04/21/17	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28	0.100	pH Units	1	1704232	04/21/17	04/24/17	EPA 9045	
Specific Conductance (EC)	0.474	0.0100	mmhos/cm	"	1704233	04/21/17	04/24/17	SM 2510B	
% Solids	87.0		%	"	1704219	04/20/17	04/21/17	% calculation	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

Floor 6 FT
1704196-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	54	50	mg/kg	1	1704210	04/20/17	04/21/17	8015M	

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1704212	04/20/17	04/21/17	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: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	21-167		"	"	"	"	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1704210 - EPA 3550A

Blank (1704210-BLK1)

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 14.4 " 12.5 115 30-150

LCS (1704210-BS1)

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO) 487 50 mg/kg 499 97.6 73-134

Surrogate: o-Terphenyl 14.1 " 12.5 113 30-150

Matrix Spike (1704210-MS1)

Source: 1704192-01

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO) 518 50 mg/kg 499 335 36.6 50-148

Surrogate: o-Terphenyl 14.3 " 12.5 114 30-150

Matrix Spike Dup (1704210-MSD1)

Source: 1704192-01

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO) 530 50 mg/kg 499 335 39.0 50-148 2.36 20

Surrogate: o-Terphenyl 14.0 " 12.5 112 30-150

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30
Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

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 1704212 - EPA 5030 Soil MS

Blank (1704212-BLK1)

Prepared: 04/20/17 Analyzed: 04/21/17

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	23-173			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.4	21-167			

LCS (1704212-BS1)

Prepared: 04/20/17 Analyzed: 04/21/17

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0799	0.0020	"	0.100		79.9	58-130			
Toluene	0.0814	0.0050	"	0.100		81.4	61-134			
Ethylbenzene	0.0788	0.0050	"	0.0992		79.4	74-139			
m,p-Xylene	0.156	0.010	"	0.200		78.1	73-137			
o-Xylene	0.0806	0.0050	"	0.0980		82.3	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.6	23-173			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	21-167			

Matrix Spike (1704212-MS1)

Source: 1704196-01

Prepared: 04/20/17 Analyzed: 04/21/17

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0775	0.0020	"	0.100	ND	77.5	30-131			
Toluene	0.0798	0.0050	"	0.100	ND	79.8	30-134			
Ethylbenzene	0.0778	0.0050	"	0.0992	ND	78.4	22-153			
m,p-Xylene	0.152	0.010	"	0.200	ND	75.9	10-159			
o-Xylene	0.0788	0.0050	"	0.0980	ND	80.4	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.4	23-173			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		92.9	21-167			

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

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 1704212 - EPA 5030 Soil MS

Matrix Spike Dup (1704212-MSD1)			Source: 1704196-01		Prepared: 04/20/17 Analyzed: 04/21/17					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0755	0.0020	"	0.100	ND	75.5	30-131	2.67	34	
Toluene	0.0779	0.0050	"	0.100	ND	77.9	30-134	2.36	30	
Ethylbenzene	0.0749	0.0050	"	0.0992	ND	75.5	22-153	3.77	24	
m,p-Xylene	0.148	0.010	"	0.200	ND	74.4	10-159	2.04	68	
o-Xylene	0.0765	0.0050	"	0.0980	ND	78.0	31-151	3.05	38	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.4	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0362		"	0.0400		90.4	21-167			

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30
Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

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

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

Batch 1704204 - General Preparation

Blank (1704204-BLK1)

Prepared: 04/19/17 Analyzed: 04/20/17

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

LCS (1704204-BS1)

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	530	10.0	mg/kg wet	500	106	82.9-118
Magnesium	504	5.00	"	500	101	77.1-123
Sodium	519	5.00	"	500	104	71-129

Duplicate (1704204-DUP1)

Source: 1704174-01

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	221	10.3	mg/kg dry	221	0.239	200
Magnesium	72.6	5.13	"	66.8	8.30	200
Sodium	23.9	5.13	"	25.3	5.75	200

Matrix Spike (1704204-MS1)

Source: 1704174-01

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	723	10.3	mg/kg dry	513	221	97.9	75-125
Magnesium	574	5.13	"	513	66.8	98.8	75-125
Sodium	543	5.13	"	513	25.3	101	75-125

Matrix Spike Dup (1704204-MSD1)

Source: 1704174-01

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	759	10.3	mg/kg dry	513	221	105	75-125	4.74	25
Magnesium	568	5.13	"	513	66.8	97.6	75-125	1.04	25
Sodium	551	5.13	"	513	25.3	102	75-125	1.45	25

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

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

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

Batch 1704219 - General Preparation

Duplicate (1704219-DUP1) Source: 1704192-01 Prepared: 04/20/17 Analyzed: 04/21/17

% Solids	87.6		%		88.0			0.456	20	
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Batch 1704232 - General Preparation

LCS (1704232-BS1) Prepared: 04/21/17 Analyzed: 04/24/17

pH	8.00	0.100	pH Units	8.00	100	95-105				
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Duplicate (1704232-DUP1) Source: 1704192-01 Prepared: 04/21/17 Analyzed: 04/24/17

pH	8.84	0.100	pH Units		8.86			0.226	20	
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Batch 1704233 - General Preparation

Blank (1704233-BLK1) Prepared: 04/21/17 Analyzed: 04/24/17

Specific Conductance (EC)	ND	0.0100	mmhos/cm							
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LCS (1704233-BS1) Prepared: 04/21/17 Analyzed: 04/24/17

Specific Conductance (EC)	0.753	0.0100	mmhos/cm	0.750	100	90-110				
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Duplicate (1704233-DUP1) Source: 1704192-01 Prepared: 04/21/17 Analyzed: 04/24/17

Specific Conductance (EC)	0.617	0.0100	mmhos/cm		0.618			0.162	20	
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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Roth 1-30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/26/17 14:31

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