



LEGEND

	SOIL SAMPLE LOCATION		ABOVE GROUND STORAGE TANK
	CONTAINMENT BERM		FORMER FACILITY
	CONTAINMENT WALL		

4/4/18	
3	
B	<0.002
T	<0.005
E	<0.005
X	<0.005
N	<0.010
G	<0.50
D	<50
EC	0.300
pH	8.6
SAR	0.130

DATE SAMPLED
LOCATION and DEPTH (ft)
BENZENE (mg/kg)
TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)
NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)
TPH-DRO (mg/kg)
EC mmhos/cm
pH Units
SAR Units

4/4/18	
Floor ~ 6'	
B	<0.002
T	<0.005
E	<0.005
X	<0.005
N	<0.010
G	<50
D	<50

DATE SAMPLED
LOCATION and DEPTH (ft)
BENZENE (mg/kg)
TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)
NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)
TPH-DRO (mg/kg)

Figure 1

SITE MAP

Noble Hoffner 44-35, 34-35 (N. Vault)

Noble Hoffner 43-35, 33-35 (S. Vault)

Facility ID - 305868 / Facility ID - 305328

NESE Sec 35, T6N, R64W - 40.4398°N 104.51107°W

NESE Sec 35, T6N, R64W 40.43965°N 104.51106°W

API No.
05-123-23599 / 05-123-22806

Date
6/5/18

Prepared by
TDA

Reviewed by
PH

Drawn by
TDA

Filename
V171AV172A



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 17, 2018

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Hoffner 44-35, 34-35 North Vault

Enclosed are the results of analyses for samples received by Summit Scientific on 04/05/18 15:00. 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 For Ben Shrewsbury
President / Laboratory Director



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault

Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N. WALL 3FT	1804064-01	Soil	04/04/18 00:00	04/05/18 15:00
FLOOR 6FT	1804064-02	Soil	04/04/18 00:00	04/05/18 15:00

Summit Scientific

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

Summit Scientific

S₂

1804064

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

BILL TO HOWARD

Address: P.O. Box 1289

E-Mail: paulh@fremontenv.com

City/State/Zip: PO Box 1829 Wellington, CO 80549

Phone: 303-956-8714

Fax:

Project Name: NOBLE - HOFFNER 44-35, 34-35 (N. VAULT)

Sampler Name: HENEHAN

Project Number: RC# 815893035

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 3 FT	4/4/18		1			✓			✓				✓	✓	✓	✓	✓	✓	
2	FLOOR 6 FT			1			✓			✓				✓	✓	✓				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes: on ice
BNA/FE	4/5/18 1500	MJ	4/5/18 1500	Same Day _____ 72 hours 24 hours _____ <u>Standard</u> 48 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 5.7°C Intact: <u>Yes</u> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order: 1804064

Client: Fremont Env.

Client Project ID: Noble-Hoffner 44-35, 34-35 (N. Vault)

Shipped Via: Hand
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

Cooler ID					
Temp (°C)	5.7				

Thermometer ID: 61857155-K

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

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

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

4/5/18 1500
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault
Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

N. WALL 3FT
1804064-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1804034	04/06/18	04/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804037	04/06/18	04/07/18	EPA 8015M	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	80-124		"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2670	2.50	mg/kg dry	1	1804061	04/13/18	04/16/18	EPA 6020B	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault
Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

N. WALL 3FT
1804064-01 (Soil)

Summit Scientific

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

Magnesium	162	1.00	mg/kg dry	1	1804061	04/13/18	04/16/18	EPA 6020B
Sodium	25.6	5.00	"	"	"	"	"	"

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.130	0.100	units	1	1804077	04/14/18	04/14/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.300	0.0100	mmhos/cm	1	1804068	04/13/18	04/13/18	EPA 120.1	
% Solids	93.2		%	"	1804111	04/16/18	04/16/18	Calculation	
pH	8.6		pH Units	"	1804076	04/06/18	04/14/18	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault
Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

FLOOR 6FT
1804064-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1804034	04/06/18	04/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.0 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804037	04/06/18	04/07/18	EPA 8015M	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	80-124		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault

Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

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 1804034 - EPA 5030 Soil MS

Blank (1804034-BLK1)

Prepared & Analyzed: 04/05/18

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0396		85.5	70-130			
Surrogate: Toluene-d8	0.0418		"	0.0400		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0337		"	0.0400		84.2	70-130			

LCS (1804034-BS1)

Prepared & Analyzed: 04/05/18

Benzene	0.0734	0.0050	mg/kg	0.100		73.4	86-121			
Toluene	0.0764	0.0050	"	0.100		76.4	76-137			
Surrogate: 1,2-Dichloroethane-d4	0.0312		"	0.0396		78.8	70-130			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0326		"	0.0400		81.5	70-130			

Matrix Spike (1804034-MS1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

Benzene	0.0808	0.0050	mg/kg	0.100	ND	80.8	86-121			
Toluene	0.0824	0.0050	"	0.100	ND	82.4	76-137			
Surrogate: 1,2-Dichloroethane-d4	0.0341		"	0.0396		86.1	70-130			
Surrogate: Toluene-d8	0.0423		"	0.0400		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0323		"	0.0400		80.8	70-130			

Matrix Spike Dup (1804034-MSD1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

Benzene	0.0713	0.0050	mg/kg	0.100	ND	71.3	86-121	12.5	20	
Toluene	0.0722	0.0050	"	0.100	ND	72.2	76-137	13.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0396		82.7	70-130			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0329		"	0.0400		82.2	70-130			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault
Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

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 1804037 - EPA 3550A

Blank (1804037-BLK1)

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1804037-BS1)

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) 530 50 mg/kg 500 106 81.4-129

Matrix Spike (1804037-MS1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) 470 50 mg/kg 500 14.9 91.0 77.8-133

Matrix Spike Dup (1804037-MSD1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) 508 50 mg/kg 500 14.9 98.5 77.8-133 7.76 8.48

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault
Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

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

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

Batch 1804061 - General Preparation

Blank (1804061-BLK1)

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	ND	2.50	mg/kg wet
Magnesium	ND	1.00	"
Sodium	ND	5.00	"

LCS (1804061-BS1)

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1070	2.50	mg/kg wet	1000	107	70-130
Magnesium	1130	1.00	"	1000	113	70-130
Sodium	1120	5.00	"	1000	112	70-130

Duplicate (1804061-DUP1)

Source: 1804067-01

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1030	2.50	mg/kg dry	1050		2.27	20
Magnesium	885	1.00	"	905		2.21	20
Sodium	499	5.00	"	482		3.33	20

Matrix Spike (1804061-MS1)

Source: 1804067-01

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1950	2.50	mg/kg dry	1080	1050	83.3	70-130
Magnesium	1870	1.00	"	1080	905	89.8	70-130
Sodium	1330	5.00	"	1080	482	78.9	70-130

Matrix Spike Dup (1804061-MSD1)

Source: 1804067-01

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1920	2.50	mg/kg dry	1080	1050	80.4	70-130	1.59	25
Magnesium	1860	1.00	"	1080	905	89.1	70-130	0.377	25
Sodium	1290	5.00	"	1080	482	75.2	70-130	3.09	25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault
Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

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 1804068 - General Preparation

Blank (1804068-BLK1) Prepared & Analyzed: 04/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1804068-BS1) Prepared & Analyzed: 04/13/18

Specific Conductance (EC) 0.786 0.0100 mmhos/cm 80-120

Duplicate (1804068-DUP1) Source: 1804004-02 Prepared & Analyzed: 04/13/18

Specific Conductance (EC) 0.446 0.0100 mmhos/cm 0.410 8.33 20

Batch 1804076 - General Preparation

Duplicate (1804076-DUP1) Source: 1804004-02 Prepared: 04/06/18 Analyzed: 04/14/18

pH 8.3 pH Units 8.2 0.484 20

Batch 1804111 - General Preparation

Duplicate (1804111-DUP1) Source: 1804061-01 Prepared & Analyzed: 04/16/18

% Solids 93.4 % 93.0 0.429 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 44-35, 34-35 North Vault

Project Number: RC# 815902570
Project Manager: Paul Henehan

Reported:
04/17/18 08:24

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 17, 2018

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Hoffner 43-35, 33-35 South Vault

Enclosed are the results of analyses for samples received by Summit Scientific on 04/05/18 15:00. 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 For Ben Shrewsbury
President / Laboratory Director



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault

Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N. WALL 3FT	1804065-01	Soil	04/04/18 00:00	04/05/18 15:00
FLOOR 5FT	1804065-02	Soil	04/04/18 00:00	04/05/18 15:00

Summit Scientific

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

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

Summit Scientific

S₂

1804065

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

BILL TO HOWARD

Address: P.O. Box 1289

E-Mail: paulh@fremontenv.com

City/State/Zip: PO Box 1829 Wellington, CO 80549

Phone: 303-956-8714

Fax:

Project Name: NOBLE - HOFFNER 43-35, 33-35 (S. VAULT)

Sampler Name: HENEHAN

Project Number: RC # 815893035

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 3 FT	4/4/18		1			✓			✓				✓	✓	✓	✓	✓		
2	FLOOR 5 FT	"		1			✓			✓				✓	✓	✓				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ <u>Standard</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 5.7°C Intact: <u>Yes</u> No	Notes: on ice
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order: 1804065

Client: Fremont Env.

Client Project ID: Noble-Hoffner 43-35, 33-35 (S-Vault)

Shipped Via: Hand
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

Cooler ID					
Temp (°C)	5.7				

Thermometer ID: 61857155-K

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

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

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

4/15/18 1500
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault
Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

N. WALL 3FT
1804065-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 04/04/18 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1804034	04/06/18	04/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 04/04/18 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.6 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.4 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 04/04/18 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804037	04/06/18	04/07/18	EPA 8015M	

Date Sampled: 04/04/18 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	80-124		"	"	"	"	

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

Date Sampled: 04/04/18 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	886	2.50	mg/kg dry	1	1804061	04/13/18	04/16/18	EPA 6020B	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault
Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

**N. WALL 3FT
1804065-01 (Soil)**

Summit Scientific

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

Magnesium	114	1.00	mg/kg dry	1	1804061	04/13/18	04/16/18	EPA 6020B
Sodium	28.2	5.00	"	"	"	"	"	"

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.240	0.100	units	1	1804077	04/14/18	04/14/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.459	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	
% Solids	94.2		%	"	1804111	04/16/18	04/16/18	Calculation	
pH	8.6		pH Units	"	1804076	04/06/18	04/14/18	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault
Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

FLOOR 5FT
1804065-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1804034	04/06/18	04/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.6 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		102 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	70-130		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804037	04/06/18	04/07/18	EPA 8015M	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	80-124		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault

Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1804034 - EPA 5030 Soil MS

Blank (1804034-BLK1)

Prepared & Analyzed: 04/05/18

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0396		85.5	70-130			
Surrogate: Toluene-d8	0.0418		"	0.0400		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0337		"	0.0400		84.2	70-130			

LCS (1804034-BS1)

Prepared & Analyzed: 04/05/18

Benzene	0.0734	0.0050	mg/kg	0.100		73.4	86-121			
Toluene	0.0764	0.0050	"	0.100		76.4	76-137			
Surrogate: 1,2-Dichloroethane-d4	0.0312		"	0.0396		78.8	70-130			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0326		"	0.0400		81.5	70-130			

Matrix Spike (1804034-MS1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

Benzene	0.0808	0.0050	mg/kg	0.100	ND	80.8	86-121			
Toluene	0.0824	0.0050	"	0.100	ND	82.4	76-137			
Surrogate: 1,2-Dichloroethane-d4	0.0341		"	0.0396		86.1	70-130			
Surrogate: Toluene-d8	0.0423		"	0.0400		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0323		"	0.0400		80.8	70-130			

Matrix Spike Dup (1804034-MSD1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

Benzene	0.0713	0.0050	mg/kg	0.100	ND	71.3	86-121	12.5	20	
Toluene	0.0722	0.0050	"	0.100	ND	72.2	76-137	13.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0396		82.7	70-130			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0329		"	0.0400		82.2	70-130			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault
Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

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 1804037 - EPA 3550A

Blank (1804037-BLK1)

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1804037-BS1)

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) 530 50 mg/kg 500 106 81.4-129

Matrix Spike (1804037-MS1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) 470 50 mg/kg 500 14.9 91.0 77.8-133

Matrix Spike Dup (1804037-MSD1)

Source: 1804061-01

Prepared & Analyzed: 04/05/18

C10-C28 (DRO) 508 50 mg/kg 500 14.9 98.5 77.8-133 7.76 8.48

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault
Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

Soluble Nutrients by EPA 6020/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 1804061 - General Preparation

Blank (1804061-BLK1)

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	ND	2.50	mg/kg wet
Magnesium	ND	1.00	"
Sodium	ND	5.00	"

LCS (1804061-BS1)

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1070	2.50	mg/kg wet	1000	107	70-130
Magnesium	1130	1.00	"	1000	113	70-130
Sodium	1120	5.00	"	1000	112	70-130

Duplicate (1804061-DUP1)

Source: 1804067-01

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1030	2.50	mg/kg dry	1050		2.27	20
Magnesium	885	1.00	"	905		2.21	20
Sodium	499	5.00	"	482		3.33	20

Matrix Spike (1804061-MS1)

Source: 1804067-01

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1950	2.50	mg/kg dry	1080	1050	83.3	70-130
Magnesium	1870	1.00	"	1080	905	89.8	70-130
Sodium	1330	5.00	"	1080	482	78.9	70-130

Matrix Spike Dup (1804061-MSD1)

Source: 1804067-01

Prepared: 04/13/18 Analyzed: 04/14/18

Calcium	1920	2.50	mg/kg dry	1080	1050	80.4	70-130	1.59	25
Magnesium	1860	1.00	"	1080	905	89.1	70-130	0.377	25
Sodium	1290	5.00	"	1080	482	75.2	70-130	3.09	25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault
Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

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 1804069 - General Preparation

Blank (1804069-BLK1) Prepared & Analyzed: 04/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1804069-BS1) Prepared & Analyzed: 04/13/18

Specific Conductance (EC) 0.766 0.0100 mmhos/cm 80-120

Duplicate (1804069-DUP1) Source: 1804049-01 Prepared & Analyzed: 04/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm 2.41 20

Batch 1804076 - General Preparation

Duplicate (1804076-DUP1) Source: 1804004-02 Prepared: 04/06/18 Analyzed: 04/14/18

pH 8.3 pH Units 8.2 0.484 20

Batch 1804111 - General Preparation

Duplicate (1804111-DUP1) Source: 1804061-01 Prepared & Analyzed: 04/16/18

% Solids 93.4 % 93.0 0.429 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hoffner 43-35, 33-35 South Vault

Project Number: RC# 815893035
Project Manager: Paul Henehan

Reported:
04/17/18 15:01

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