



#### LEGEND



Figure 1  
**SITE MAP**

**Noble Goodner G/Federal**  
 Facility ID - 322951  
 NE SW Section 6, T4N, R65W  
 Weld County, Colorado

API No.  
**05-123-12314**

Prepared by

Drawn by  
**JMA**

Date  
**4/4/17**

Reviewed by

Filename  
**V103A**



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 19, 2017

Paul Henehan  
Fremont Environmental  
1759 Redwing Lane  
Broomfield, CO 80020

RE: Noble - Goodner G / Federal 6-11

Enclosed are the results of analyses for samples received by Summit Scientific on 03/17/17 17:45. 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 - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/19/17 14:44

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor 10'	1703151-01	Soil	03/17/17 00:00	03/17/17 17:45
S. Wall 5'	1703151-02	Soil	03/17/17 00:00	03/17/17 17:45

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'.



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/19/17 14:44

1703151

# Summit Scientific

S<sub>2</sub>

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

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

Phone: 303-956-8714

Fax:

Project Name: Noble - Goodner G / Federal 6-11

Sampler Name: HENEHAN

Project Number:

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

  

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
<u>PH/HE</u>	<u>3/17/17 15:20</u>	<u>PH/HE</u>	<u>3-17-17 15:25</u>	<input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard Sample Integrity: <u>Mon PLZ</u> Temperature Upon Receipt: <u>20.9</u> Intact: Yes No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

www.s2scientific.com

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/19/17 14:44

1703151

Sample Receipt Checklist

S2 Work Order: \_\_\_\_\_

Client: Fremont Client Project ID: Noble - Goodner G / Federal 6-11

Shipped Via: A.D. Airbill #: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler ID					
Temp (°C)	20.9				

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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<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) <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
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 <sup>(1)</sup> ?			<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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Signature or Initials of Custodian

Date/Time



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11  
Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/19/17 14:44

**Floor 10'**  
**1703151-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1703196	03/17/17	03/17/17	8015M	

Date Sampled: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1703195	03/17/17	03/17/17	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: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	21-167		"	"	"	"	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/19/17 14:44

**S. Wall 5'**  
**1703151-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1703196	03/17/17	03/17/17	8015M	

Date Sampled: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1703195	03/17/17	03/17/17	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: **03/17/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	21-167		"	"	"	"	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/19/17 14:44

**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 1703196 - EPA 3550A**

**Blank (1703196-BLK1)**

Prepared & Analyzed: 03/17/17

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	12.6		"	12.5		100	30-150			

**LCS (1703196-BS1)**

Prepared & Analyzed: 03/17/17

C10-C28 (DRO)	641	50	mg/kg	499		128	73-134			
Surrogate: o-Terphenyl	12.1		"	12.5		96.6	30-150			

**Matrix Spike (1703196-MS1)**

Source: 1703151-01

Prepared & Analyzed: 03/17/17

C10-C28 (DRO)	569	50	mg/kg	499	23.2	109	50-148			
Surrogate: o-Terphenyl	12.0		"	12.5		95.9	30-150			

**Matrix Spike Dup (1703196-MSD1)**

Source: 1703151-01

Prepared & Analyzed: 03/17/17

C10-C28 (DRO)	559	50	mg/kg	499	23.2	107	50-148	1.76	20	
Surrogate: o-Terphenyl	11.8		"	12.5		94.1	30-150			

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11  
Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/19/17 14:44

**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 1703195 - EPA 5030 Soil MS**

**Blank (1703195-BLK1)**

Prepared & Analyzed: 03/17/17

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	0.0398		"	0.0400		99.4	23-173			
Surrogate: Toluene-d8	0.0383		"	0.0400		95.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	21-167			

**LCS (1703195-BS1)**

Prepared & Analyzed: 03/17/17

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0904	0.0020	"	0.100		90.4	58-130			
Toluene	0.0928	0.0050	"	0.100		92.8	61-134			
Ethylbenzene	0.0885	0.0050	"	0.0992		89.2	74-139			
m,p-Xylene	0.176	0.010	"	0.200		88.3	73-137			
o-Xylene	0.0886	0.0050	"	0.0980		90.4	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.4	23-173			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92.2	21-167			

**Matrix Spike (1703195-MS1)**

Source: 1703151-01

Prepared & Analyzed: 03/17/17

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0900	0.0020	"	0.100	ND	90.0	30-131			
Toluene	0.0927	0.0050	"	0.100	ND	92.7	30-134			
Ethylbenzene	0.0896	0.0050	"	0.0992	ND	90.3	22-153			
m,p-Xylene	0.176	0.010	"	0.200	ND	88.3	10-159			
o-Xylene	0.0904	0.0050	"	0.0980	ND	92.2	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	21-167			

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/19/17 14:44

**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 1703195 - EPA 5030 Soil MS**

Matrix Spike Dup (1703195-MSD1)		Source: 1703151-01			Prepared & Analyzed: 03/17/17					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0865	0.0020	"	0.100	ND	86.5	30-131	4.01	34	
Toluene	0.0888	0.0050	"	0.100	ND	88.8	30-134	4.36	30	
Ethylbenzene	0.0845	0.0050	"	0.0992	ND	85.2	22-153	5.86	24	
m,p-Xylene	0.170	0.010	"	0.200	ND	84.9	10-159	3.92	68	
o-Xylene	0.0856	0.0050	"	0.0980	ND	87.4	31-151	5.39	38	
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		94.9	21-167			

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/19/17 14:44

### 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

March 17, 2017

Paul Henehan

Fremont Environmental

1759 Redwing Lane

Broomfield, CO 80020

RE: Noble - Goodner G / Federal 6-11

Enclosed are the results of analyses for samples received by Summit Scientific on 03/16/17 16:37. 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 - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/17/17 06:47

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N. Wall 4ft	1703134-01	Soil	03/16/17 00:00	03/16/17 16:37
S. Wall 4ft	1703134-02	Soil	03/16/17 00:00	03/16/17 16:37
E. Wall 4ft	1703134-03	Soil	03/16/17 00:00	03/16/17 16:37
W. Wall 4ft	1703134-04	Soil	03/16/17 00:00	03/16/17 16:37
Floor 7 ft	1703134-05	Soil	03/16/17 00:00	03/16/17 16:37

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

1703134

## Summit Scientific

S<sub>2</sub>

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

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

Phone: 303-956-8714

Fax:

Project Name: NOBLE - GOODNER G / FEDERAL 6-11

Sampler Name: ~~PAUL HENEHAN~~

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions
					HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	GRO/DRO	Napthalene	SAR	EC	
1	N. WALL 4 FT	3/16/17		1			✓		✓			✓	✓	✓				
2	S. WALL 4 FT			1			✓		✓			✓	✓	✓				
3	E. WALL 4 FT			1			✓		✓			✓	✓	✓	✓	✓		
4	W. WALL 4 FT			1			✓		✓			✓	✓	✓				
5	FLOOR 7 FT			1			✓		✓			✓	✓	✓				
6																		
7																		
8																		
9																		
10																		

Relinquished by: <u>Paul Henehan</u>	Date/Time: <u>3/16/17 15:20</u>	Received by: <u>Paul Henehan</u>	Date/Time: <u>3-16-17 15:20</u>	<b>Turn Around Time</b> (Check) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 hours <input type="checkbox"/> Standard <b>Sample Integrity:</b> Temperature Upon Receipt: 20.1 Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Notes:</b>
Relinquished by: <u>Paul Henehan</u>	Date/Time: <u>3-16-17 17:10</u>	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

www.s2scientific.com

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

1703134

Sample Receipt Checklist

S2 Work Order: \_\_\_\_\_

Client: Fremont

Client Project ID: Noble - Goodner G / Federal 6-11

Shipped Via: H.D.

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

Airbill #: \_\_\_\_\_

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

Cooler ID					
Temp (°C)	20.1				

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 <sup>(1)</sup> ?				
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.	X			
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
If custody seals are present, are they intact <sup>(1)</sup> ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?	X			
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?			X	
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 <sup>(1)</sup> ?			X	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Muri P.  
Custodian Printed Name

HA 3-16-17  
Signature or Initials of Custodian

15:38  
Date/Time



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

**N. Wall 4ft**  
**1703134-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1703180	03/16/17	03/16/17	8015M	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1703179	03/16/17	03/16/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

**S. Wall 4ft**  
**1703134-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	630	50	mg/kg	1	1703180	03/16/17	03/16/17	8015M	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.23	0.0020	mg/kg	1	1703179	03/16/17	03/17/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.42	0.050	"	10	"	"	"	"	
Xylenes (total)	6.5	0.10	"	"	"	"	"	"	
Naphthalene	0.41	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	110	50	"	10	"	"	"	"	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		81.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		129 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	21-167		"	"	"	"	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11  
Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/17/17 06:47

**E. Wall 4ft  
1703134-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1703180	03/16/17	03/16/17	8015M	

Date Sampled: **03/16/17 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: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1703179	03/16/17	03/16/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	21-167		"	"	"	"	

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

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3980	11.5	mg/kg dry	1	1703178	03/16/17	03/16/17	EPA 6020/Mod. USDA60 6(2, 3A)	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11  
Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/17/17 06:47

**E. Wall 4ft  
1703134-03 (Soil)**

**Summit Scientific**

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

Magnesium	373	5.75	mg/kg dry	1	1703178	03/16/17	03/16/17	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium	38.5	5.75	"	"	"	"	"	"
Sodium Adsorption Ratio	0.160		units	"	1703182	03/17/17	03/17/17	"

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.496	0.0100	mmhos/cm	1	1703176	03/16/17	03/16/17	SM 2510B	
pH	8.22	0.100	pH Units	"	1703177	03/16/17	03/16/17	EPA 9045	
% Solids	86.9		%	"	1703181	03/16/17	03/17/17	% calculation	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/17/17 06:47

**W. Wall 4ft  
1703134-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1703180	03/16/17	03/16/17	8015M	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.021</b>	0.0020	mg/kg	1	1703179	03/16/17	03/16/17	EPA 8260B	
<b>Toluene</b>	<b>0.23</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.022</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		80.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

**Floor 7 ft**  
**1703134-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	60	50	mg/kg	1	1703180	03/16/17	03/16/17	8015M	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.89	0.0020	mg/kg	1	1703179	03/16/17	03/17/17	EPA 8260B	
Toluene	0.024	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.69	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.18	0.010	"	"	"	"	"	"	
Naphthalene	0.14	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	190	50	"	10	"	"	"	"	

Date Sampled: **03/16/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		129 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		153 %	21-167		"	"	"	"	

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/17/17 06:47

**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 1703180 - EPA 3550A**

**Blank (1703180-BLK1)**

Prepared & Analyzed: 03/16/17

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.7 " 12.5 102 30-150

**LCS (1703180-BS1)**

Prepared & Analyzed: 03/16/17

C10-C28 (DRO) 668 50 mg/kg 499 134 73-134

Surrogate: o-Terphenyl 12.7 " 12.5 101 30-150

**Matrix Spike (1703180-MS1)**

Source: 1703132-01

Prepared & Analyzed: 03/16/17

C10-C28 (DRO) 579 50 mg/kg 499 21.8 112 50-148

Surrogate: o-Terphenyl 12.1 " 12.5 97.1 30-150

**Matrix Spike Dup (1703180-MSD1)**

Source: 1703132-01

Prepared & Analyzed: 03/16/17

C10-C28 (DRO) 612 50 mg/kg 499 21.8 118 50-148 5.48 20

Surrogate: o-Terphenyl 12.9 " 12.5 103 30-150

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11  
Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

**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 1703179 - EPA 5030 Soil MS**

**Blank (1703179-BLK1)**

Prepared & Analyzed: 03/16/17

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.6</i>	<i>21-167</i>			

**LCS (1703179-BS1)**

Prepared & Analyzed: 03/16/17

Benzene	0.0808	0.0020	mg/kg	0.100		80.8	58-130			
Toluene	0.0978	0.0050	"	0.100		97.8	61-134			
Ethylbenzene	0.116	0.0050	"	0.0992		117	74-139			
m,p-Xylene	0.242	0.010	"	0.200		121	73-137			
o-Xylene	0.110	0.0050	"	0.0980		112	73-141			
Xylenes (total)	0.352	0.010	"				0-200			
Naphthalene	ND	0.010	"				66-138			
Gasoline Range Hydrocarbons	2.65	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>21-167</i>			

**Matrix Spike (1703179-MS1)**

Source: 1703132-01

Prepared & Analyzed: 03/16/17

Benzene	0.0808	0.0020	mg/kg	0.100	ND	80.8	30-131			
Toluene	0.0978	0.0050	"	0.100	ND	97.8	30-134			
Ethylbenzene	0.113	0.0050	"	0.0992	ND	114	22-153			
m,p-Xylene	0.238	0.010	"	0.200	ND	119	10-159			
o-Xylene	0.109	0.0050	"	0.0980	ND	111	31-151			
Xylenes (total)	0.347	0.010	"		ND		0-200			
Naphthalene	ND	0.010	"		ND		10-158			
Gasoline Range Hydrocarbons	2.64	0.50	"		ND		0-0			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.8</i>	<i>21-167</i>			

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

**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 1703179 - EPA 5030 Soil MS**

Matrix Spike Dup (1703179-MSD1)		Source: 1703132-01			Prepared & Analyzed: 03/16/17					
Benzene	0.0821	0.0020	mg/kg	0.100	ND	82.1	30-131	1.66	34	
Toluene	0.101	0.0050	"	0.100	ND	101	30-134	3.14	30	
Ethylbenzene	0.112	0.0050	"	0.0992	ND	113	22-153	0.935	24	
m,p-Xylene	0.233	0.010	"	0.200	ND	117	10-159	2.14	68	
o-Xylene	0.107	0.0050	"	0.0980	ND	109	31-151	1.81	38	
Xylenes (total)	0.340	0.010	"		ND		0-200	2.03	200	
Naphthalene	ND	0.010	"		ND		10-158		42	
Gasoline Range Hydrocarbons	2.64	0.50	"		ND		0-0	0.171	0	
Surrogate: 1,2-Dichloroethane-d4	0.0441		"	0.0400		110	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	21-167			

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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11  
Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
03/17/17 06:47

**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 1703178 - General Preparation**

**LCS (1703178-BS1)**

Prepared & Analyzed: 03/16/17

Calcium	583	10.0	mg/kg wet	500	117	82.9-118
Magnesium	559	5.00	"	500	112	77.1-123
Sodium	566	5.00	"	500	113	71-129

**Duplicate (1703178-DUP1)**

Source: 1703134-03

Prepared & Analyzed: 03/16/17

Calcium	3590	11.5	mg/kg dry	3980	10.4	200
Magnesium	351	5.75	"	373	6.01	200
Sodium	37.0	5.75	"	38.5	3.87	200

**Matrix Spike (1703178-MS1)**

Source: 1703134-03

Prepared & Analyzed: 03/16/17

Calcium	4570	11.5	mg/kg dry	575	3980	103	75-125
Magnesium	965	5.75	"	575	373	103	75-125
Sodium	676	5.75	"	575	38.5	111	75-125

**Matrix Spike Dup (1703178-MSD1)**

Source: 1703134-03

Prepared & Analyzed: 03/16/17

Calcium	4580	11.5	mg/kg dry	575	3980	104	75-125	0.145	25
Magnesium	1070	5.75	"	575	373	121	75-125	10.3	25
Sodium	710	5.75	"	575	38.5	117	75-125	4.80	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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11  
Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/17/17 06:47

**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 1703176 - General Preparation**

**Blank (1703176-BLK1)**

Prepared & Analyzed: 03/16/17

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (1703176-BS1)**

Prepared & Analyzed: 03/16/17

Specific Conductance (EC) 0.500 0.0100 mmhos/cm 0.500 100 90-110

**Duplicate (1703176-DUP1)**

**Source: 1703134-03**

Prepared & Analyzed: 03/16/17

Specific Conductance (EC) 0.490 0.0100 mmhos/cm 0.496 1.30 20

**Batch 1703177 - General Preparation**

**LCS (1703177-BS1)**

Prepared & Analyzed: 03/16/17

pH 5.99 0.100 pH Units 6.00 99.8 95-105

**Duplicate (1703177-DUP1)**

**Source: 1703134-03**

Prepared & Analyzed: 03/16/17

pH 8.20 0.100 pH Units 8.22 0.244 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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Goodner G / Federal 6-11

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/17/17 06:47

### 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