

## **FREMONT ENVIRONMENTAL INC.**

August 13, 2016

Mr. Jacob Evans  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:     **Ground Water Data and Closure Submittal**  
                Anacapa 32-31  
                API # 05-123-22116  
                Weld County, Colorado  
                Fremont Project No. C014-025  
                Facility #332304, Remediation #9705

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Ground Water Data Submittal for the Anacapa 32-31 site in Weld County, Colorado. The enclosed data describes the ground water quality at the site during the recent quarterly sampling and monitoring event.

Since four quarters of COGCC-compliant ground water concentrations have been observed at this site, Noble should request a No Further Action (NFA) determination be provided by COGCC for this release. Upon receipt of the NFA, the monitoring wells will be abandoned as required by the State Engineer's Office.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henahan, P.E.  
Senior Consultant

TABLE 1  
SUMMARY OF GROUND WATER ELEVATION DATA AND CHEMISTRY DATA  
NOBLE ENERGY INC.  
ANACAPA 32-31, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C014-025

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	04/24/15	<1.0	<1.0	<1.0	<1.0	100.00	6.93	93.07	NP
	07/08/15	NA	NA	NA	NA		NM	NM	NM
	07/13/15	<1.0	<1.0	<1.0	<1.0		5.11	94.89	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		5.98	94.02	NP
	01/28/16	<1.0	<1.0	<1.0	<1.0		5.72	94.28	NP
	04/13/16	<1.0	<1.0	<1.0	<1.0		3.54	96.46	NP
	07/27/16	<1.0	<1.0	<1.0	<1.0		2.05	97.95	NP
MW-2	04/24/15	<1.0	<1.0	<1.0	<1.0	99.35	7.26	92.09	NP
	07/08/15	NA	NA	NA	NA		NM	NM	NM
	07/13/15	<1.0	<1.0	<1.0	<1.0		5.44	93.91	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		6.30	93.05	NP
	01/28/16	<1.0	<1.0	<1.0	<1.0		6.05	93.30	NP
	04/13/16	<1.0	<1.0	<1.0	<1.0		3.86	95.49	NP
	07/27/16	<1.0	<1.0	<1.0	<1.0		2.38	96.97	NP
MW-3	04/24/15	<1.0	<1.0	<1.0	<1.0	98.53	6.23	92.30	NP
	07/08/15	NA	NA	NA	NA		NM	NM	NM
	07/13/15	45	<1.0	<1.0	13		4.19	94.34	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		5.06	93.47	NP
	01/28/16	2.2	<1.0	<1.0	<1.0		4.71	93.82	NP
	04/13/16	<1.0	<1.0	<1.0	<1.0		2.53	96.00	NP
	07/27/16	<1.0	<1.0	<1.0	<1.0		1.05	97.48	NP
MW-4	04/24/15	<1.0	<1.0	<1.0	<1.0	96.29	4.47	91.82	NP
	07/08/15	NA	NA	NA	NA		NM	NM	NM
	07/13/15	<1.0	<1.0	<1.0	<1.0		2.66	93.63	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		3.53	92.76	NP
	01/28/16	<1.0	<1.0	<1.0	<1.0		3.26	93.03	NP
	04/13/16	<1.0	<1.0	<1.0	<1.0		1.09	95.20	NP
	07/27/16	<1.0	<1.0	<1.0	<1.0		too shallow	NM	NP
MW-5	04/24/15	43	<1.0	<1.0	2.8	96.43	5.34	91.09	NP
	07/08/15	NA	NA	NA	NA		NM	NM	NM
	07/13/15	59	<1.0	<1.0	<1.0		3.47	92.96	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		4.33	92.10	NP
	01/28/16	<1.0	<1.0	<1.0	<1.0		4.07	92.36	NP
	04/13/16	<1.0	<1.0	<1.0	<1.0		1.89	94.54	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-5	07/27/16	<1.0	<1.0	<1.0	<1.0		too shallow	NM	NP
MW-6	04/24/15	<1.0	<1.0	<1.0	<1.0	97.89	6.46	91.43	NP
	07/08/15	NA	NA	NA	NA		NM	NM	NM
	07/13/15	<1.0	<1.0	<1.0	<1.0		4.59	93.30	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		5.45	92.44	NP
	01/28/16	<1.0	<1.0	<1.0	<1.0		5.19	92.70	NP
	04/13/16	<1.0	<1.0	<1.0	<1.0		3.01	94.88	NP
	07/27/16	<1.0	<1.0	<1.0	<1.0		1.52	96.37	NP
MW-7 MW-7 repl	04/24/15	<1.0	<1.0	<1.0	53	98.09	6.05	92.04	NP
	07/08/15	<1.0	<1.0	<1.0	<1.0	98.00	NM	NM	NP
	07/13/15	NA	NA	NA	3.3		4.12	93.88	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		4.99	93.01	NP
	01/28/16	<1.0	<1.0	<1.0	<1.0		4.72	93.28	NP
	04/13/16	<1.0	<1.0	<1.0	<1.0		2.54	95.55	NP
	07/27/16	<1.0	<1.0	<1.0	<1.0		1.05	96.95	NP
MW-8	07/08/15	<1.0	<1.0	<1.0	<1.0	94.95	NM	NM	NP
	07/13/15	NA	NA	NA	NA		3.46	91.49	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		4.33	90.62	NP
	01/28/16	Not found	Not found	Not found	Not found		Not found	Not found	Not found
	04/13/16	<1.0	<1.0	<1.0	<1.0		1.90	93.05	NP
	07/27/16	Not found	Not found	Not found	Not found		Not found	Not found	Not found
MW-9	07/08/15	<1.0	<1.0	<1.0	<1.0	95.95	NM	NM	NP
	07/13/15	NA	NA	NA	NA		4.45	91.50	NP
	10/27/15	<1.0	<1.0	<1.0	<1.0		5.31	90.64	NP
	01/28/16	Not found	Not found	Not found	Not found		Not found	Not found	Not found
	04/13/16	Not found	Not found	Not found	Not found		Not found	Not found	Not found
	07/27/16	Not found	Not found	Not found	Not found		Not found	Not found	Not found
Table 910-1 Limits		5	560	700	1,400				

Bold face values exceed the COGCC limits

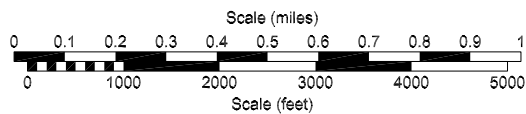
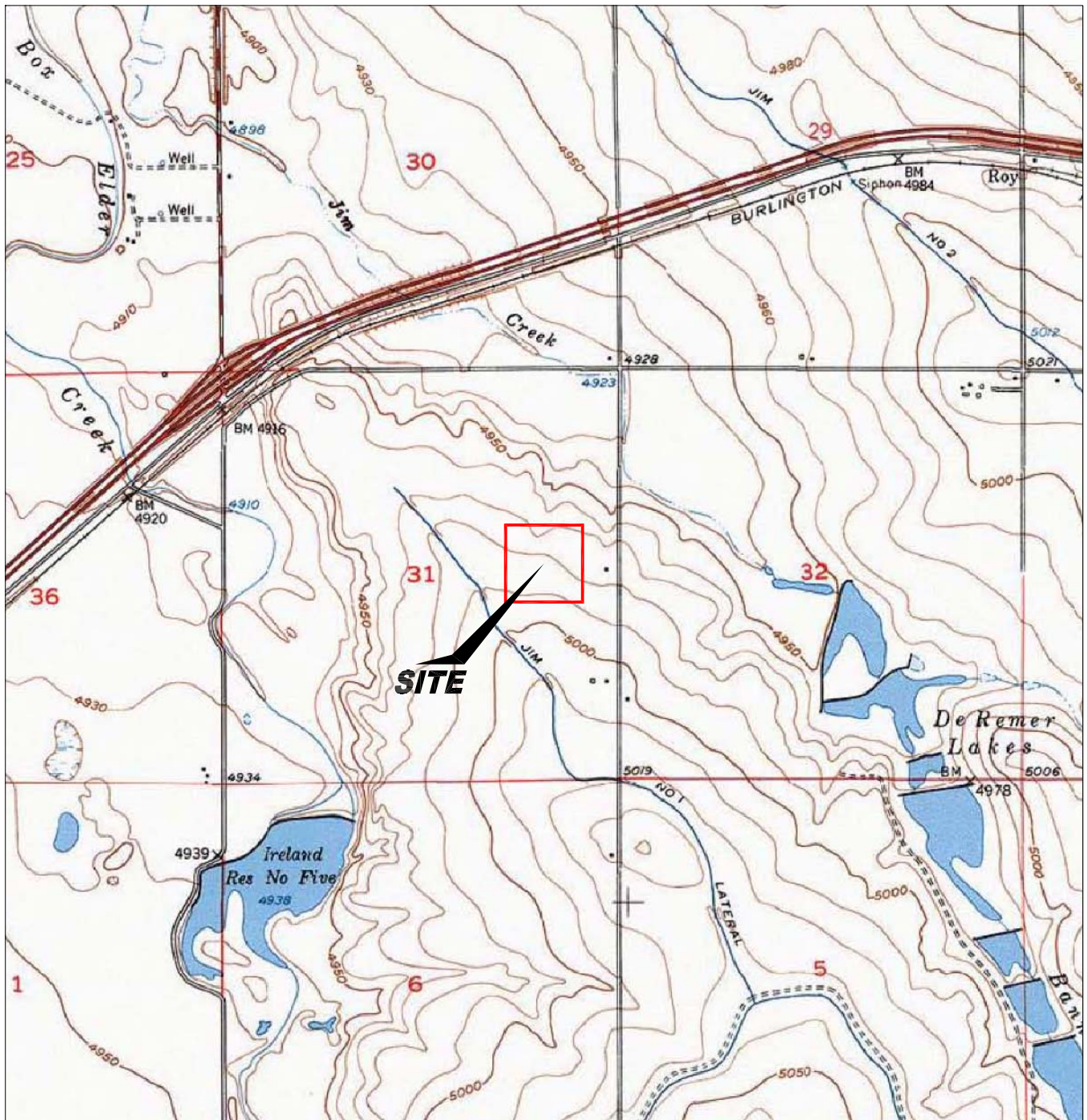
NP - No Free Product

NS - Not Sampled

NM - Not Measured

NA - Not Analyzed

MW-7 was replaced on 7/8/15, MW-8 and MW-9 were installed on the same day



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**Noble Anacapa 32-31**  
SW NE Section 31, T2N, R64W  
Weld County, Colorado

Project No.  
C014-025

Prepared by

Drawn by  
JMA

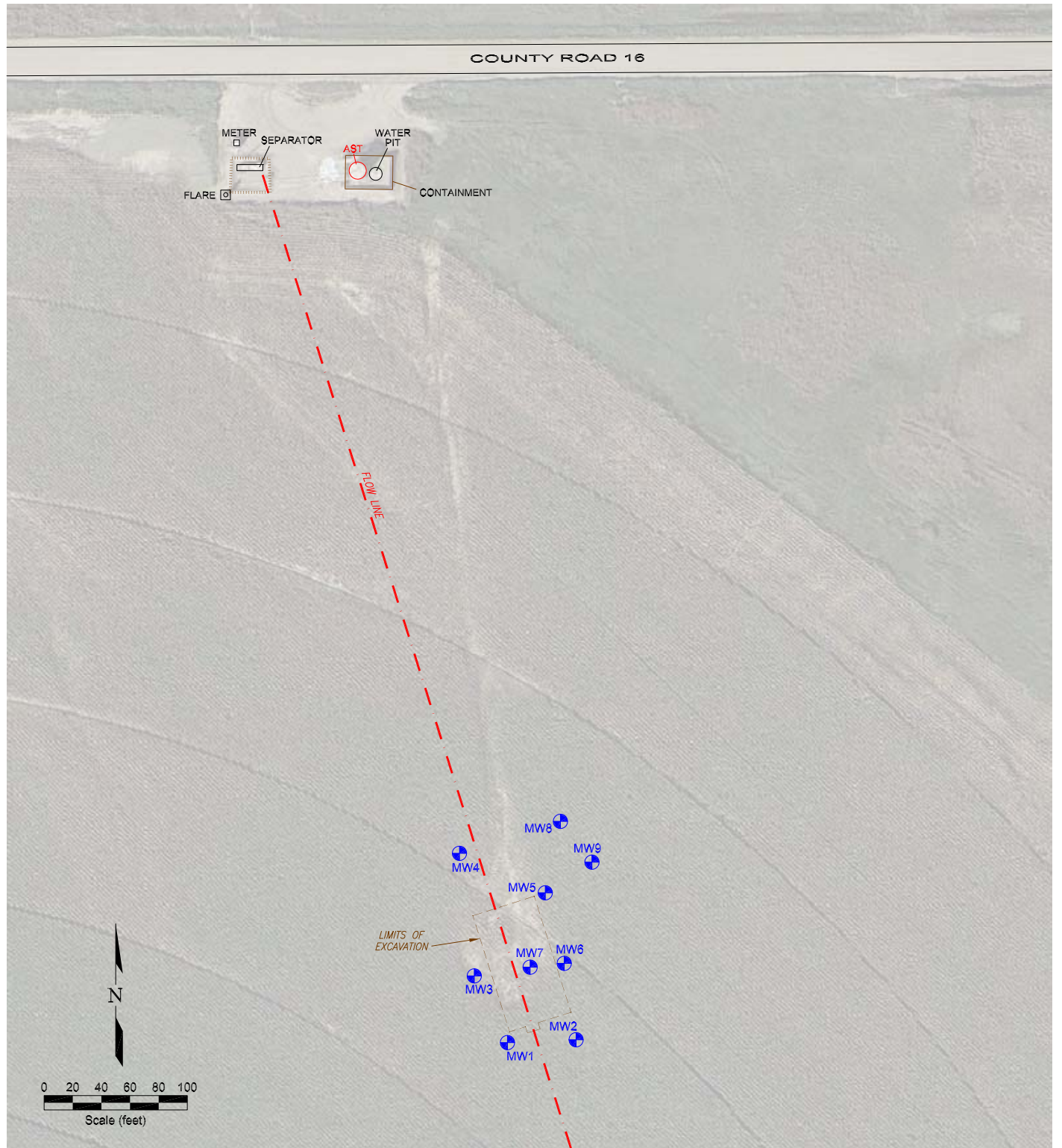
Date  
7/27/15

Reviewed by

Filename  
14025T







#### LEGEND





-  MONITORING WELL
-  BERM
-  ABOVE GROUND STORAGE TANK
-  PIPELINE

Figure 2

#### SITE MAP

**Noble Anacapa 32-31**  
SW NE Section 31, T2N, R64W  
Weld County, Colorado

Project No.  
**C014-025**

Prepared by

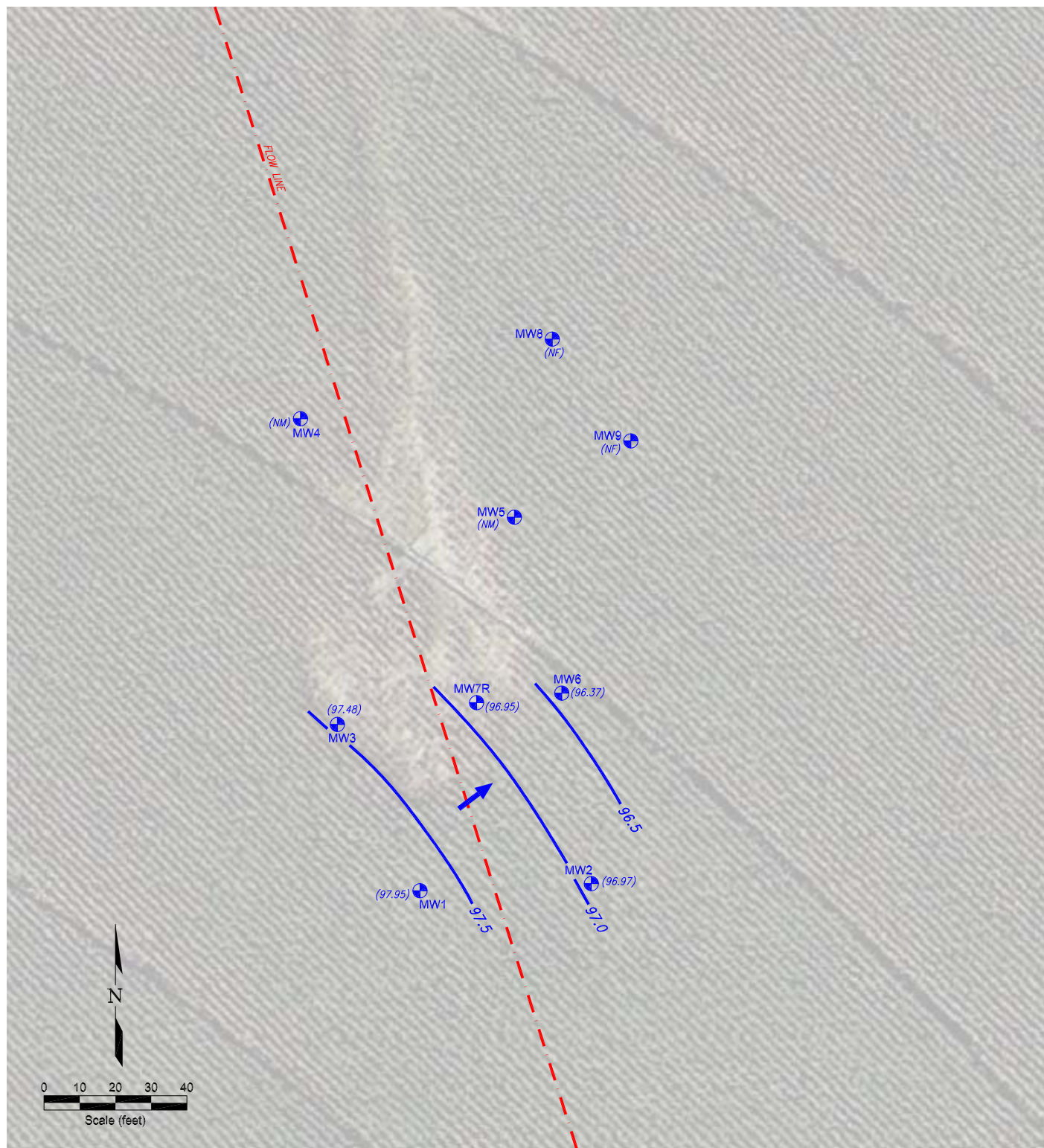
Drawn by  
**JMA**

Date  
**7/27/15**

Reviewed by

Filename  
**14025Q**





#### LEGEND

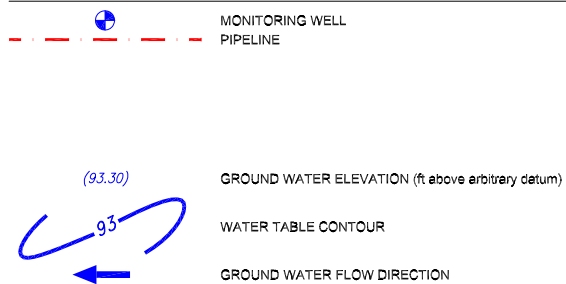


Figure 3  
**INFERRED GROUNDWATER CONTOUR**  
**JULY 27, 2016**

**Noble Anacapa 32-31**  
 SW NE Section 31, T2N, R64W  
 Weld County, Colorado

Project No.  
**C014-025**

Prepared by

Drawn by  
**JMA**

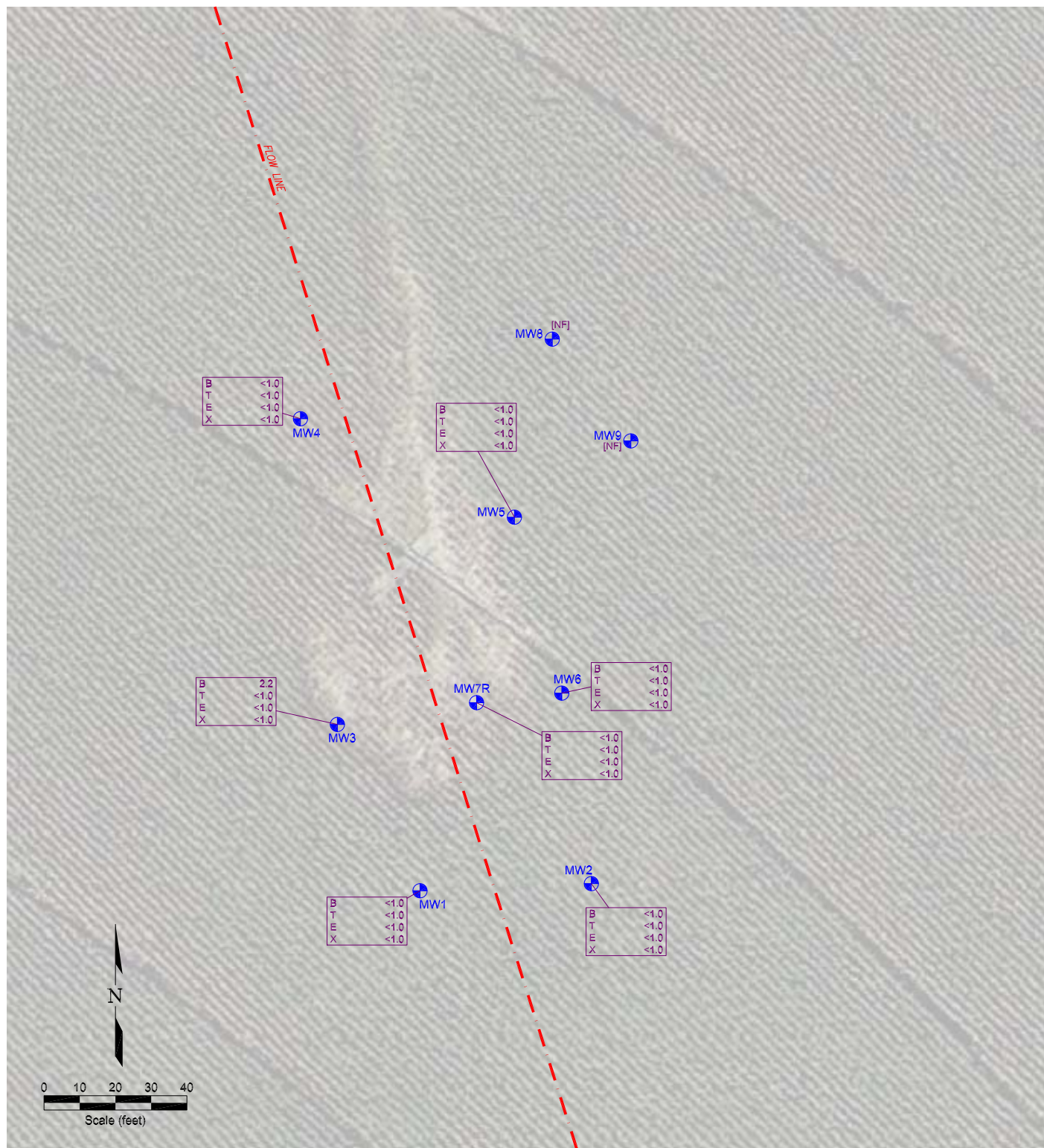
Date  
**8/8/16**

Reviewed by

Filename  
**14025R**







#### LEGEND

MONITORING WELL  
 PIPELINE

B	<1.0
T	<1.0
E	<1.0
X	<1.0

NF

BENZENE (ug/L)  
 TOLUENE (ug/L)  
 ETHYLBENZENE (ug/L)  
 TOTAL XYLENES (ug/L)

NOT FOUND

Figure 4  
GROUND WATER CHEMISTRY MAP  
JULY 27, 2016

Noble Anacapa 32-31  
SW NE Section 31, T2N, R64W  
Weld County, Colorado

Project No.  
C014-025

Prepared by

Drawn by  
JMA

Date  
8/8/16

Reviewed by

Filename  
14025R



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 03, 2016

Paul Henehan  
Fremont Environmental  
1759 Redwing Lane  
Broomfield, CO 80020  
RE: Noble - Anacapa 32-31

Enclosed are the results of analyses for samples received by Summit Scientific on 07/27/16 16:00. 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  
President





Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

**Reported:**  
08/03/16 16:01

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	1607217-01	Water	07/27/16 00:00	07/27/16 16:00
MW2	1607217-02	Water	07/27/16 00:00	07/27/16 16:00
MW3	1607217-03	Water	07/27/16 00:00	07/27/16 16:00
MW4	1607217-04	Water	07/27/16 00:00	07/27/16 16:00
MW5	1607217-05	Water	07/27/16 00:00	07/27/16 16:00
MW6	1607217-06	Water	07/27/16 00:00	07/27/16 16:00
MW7	1607217-07	Water	07/27/16 00:00	07/27/16 16:00

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

Reported:  
08/03/16 16:01

# Summit Scientific

S<sub>2</sub>

1607217

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

Client: <u>Fremont Noble</u>		Project Manager: <u>Paul H</u>		Page <u>1</u> of <u>1</u>				
Address:		E-Mail:						
City/State/Zip:								
Phone:		Fax:		Project Name: <u>Noble-Anacapa 32-31</u>				
Sampler Name: <u>M. Taylor</u>		Project Number:						
ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative	Matrix	Analysis Requested	Special Instructions
1	MW1	7/27/16		2	HCl	Groundwater	QTEX	
2					HNO3	Soil		
3					None	Air-Canister #		
4					Other (Specify)	Other (Specify)		
5								
6								
7								
8								
9								
10								
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7/27/16 16:00</u>	Received by: <u>[Signature]</u>		Date/Time: <u>7-27-16 16:00</u>	Turn Around Time (Check)		Notes:
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7-27-16 18:00</u>	Received by:		Date/Time:	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>		
Relinquished by:		Date/Time:	Received by:		Date/Time:	24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/>		
Relinquished by:		Date/Time:	Received by:		Date/Time:	Sample Integrity:		
						Temperature Upon Receipt: <u>29.5</u>		
						Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		

www.s2scientific.com

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

Reported:  
08/03/16 16:01

**Sample Receipt Checklist**

S2 Work Order: 1607217

Client: Fremont Client Project ID: Noble - Anacapa 32-31

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

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

Cooler ID					
Temp (°C)	<u>29.5</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 <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.				

Muri P. \_\_\_\_\_  
Custodian Printed Name

MS 7.27.16  
Signature or Initials of Custodian

16:05  
Date/Time





Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

**Reported:**  
08/03/16 16:01

**MW1**  
**1607217-01 (Water)**

**Summit Scientific**

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

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1608016	08/02/16	08/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		94.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

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 - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

**Reported:**  
08/03/16 16:01

**MW2**  
**1607217-02 (Water)**

**Summit Scientific**

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

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1608016	08/02/16	08/02/16	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		94.3 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %		45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

**Reported:**  
08/03/16 16:01

**MW3**  
**1607217-03 (Water)**

**Summit Scientific**

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

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1608016	08/02/16	08/02/16	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		94.5 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.7 %		45-146		"	"	"	"	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

**Reported:**  
08/03/16 16:01

**MW4**  
**1607217-04 (Water)**

**Summit Scientific**

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

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1608016	08/02/16	08/02/16	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		106 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		93.8 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		45-146		"	"	"	"	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

**Reported:**  
08/03/16 16:01

**MW5**  
**1607217-05 (Water)**

**Summit Scientific**

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

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1608016	08/02/16	08/02/16	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		107 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		94.7 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Anacapa 32-31

Project Number: C014-025  
Project Manager: Paul Henehan

**Reported:**  
08/03/16 16:01

**MW6**  
**1607217-06 (Water)**

**Summit Scientific**

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

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1608016	08/02/16	08/02/16	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %		45-146		"	"	"	"	

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**Reported:**  
08/03/16 16:01

**MW7**  
**1607217-07 (Water)**

**Summit Scientific**

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

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1608016	08/02/16	08/02/16	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **07/27/16 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		106 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		96.0 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %		45-146		"	"	"	"	

Summit Scientific

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Reported:  
08/03/16 16:01

## 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 1608016 - EPA 5030 Water MS

##### Blank (1608016-BLK1)

Prepared & Analyzed: 08/02/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.3	37-154			
Surrogate: Toluene-d8	12.7		"	13.3		95.6	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.0	45-146			

##### LCS (1608016-BS1)

Prepared & Analyzed: 08/02/16

Benzene	31.5	1.0	ug/l	33.3		94.4	51-132			
Toluene	32.7	1.0	"	33.3		98.0	51-138			
Ethylbenzene	27.1	1.0	"	33.1		81.8	58-146			
m,p-Xylene	55.3	2.0	"	66.5		83.1	57-144			
o-Xylene	27.4	1.0	"	32.7		83.9	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.9	37-154			
Surrogate: Toluene-d8	16.0		"	13.3		120	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	45-146			

##### Matrix Spike (1608016-MS1)

Source: 1607217-01

Prepared & Analyzed: 08/02/16

Benzene	35.7	1.0	ug/l	33.3	ND	107	34-141			
Toluene	36.8	1.0	"	33.3	ND	111	27-151			
Ethylbenzene	34.5	1.0	"	33.1	ND	104	29-160			
m,p-Xylene	70.8	2.0	"	66.5	ND	106	20-166			
o-Xylene	35.0	1.0	"	32.7	ND	107	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	37-154			
Surrogate: Toluene-d8	14.4		"	13.3		108	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0	45-146			

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Reported:  
08/03/16 16:01

**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 1608016 - EPA 5030 Water MS**

Matrix Spike Dup (1608016-MSD1)	Source: 1607217-01			Prepared & Analyzed: 08/02/16						
Benzene	39.4	1.0	ug/l	33.3	ND	118	34-141	9.74	32	
Toluene	41.1	1.0	"	33.3	ND	123	27-151	11.0	25	
Ethylbenzene	41.4	1.0	"	33.1	ND	125	29-160	18.1	50	
m,p-Xylene	85.4	2.0	"	66.5	ND	128	20-166	18.7	36	
o-Xylene	42.1	1.0	"	32.7	ND	129	33-159	18.5	26	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		100	45-149			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	45-146			

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Project: Noble - Anacapa 32-31

Project Number: C014-025  
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**Reported:**  
08/03/16 16:01

### 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

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Summit Scientific

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

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