

TABLE 1
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - WEBSTER 11-32 WELLHEAD RELEASE

Soil Sample ID	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Standard		0.17	85	100	175	500		23
BH01@18-20'	12/09/15	<0.0020	<0.0050	<0.0050	<0.010	<50	91	<0.010
BH02@4-8'	12/09/15	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
BH03@18-20'	12/09/15	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
BH04@18-20'	12/09/15	<0.0020	<0.0050	<0.0050	<0.010	<50	65	<0.010

COGCC = Colorado Oil and Gas Conservation Commission

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

mg/kg = Milligrams per kilogram

< = Analytical result is less than the indicated laboratory reporting limit

Soil standards referenced from COGCC Table 910-1

Highlighted results exceed the COGCC Table 910-1 standard

TABLE 2
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - WEBSTER 11-32 WELLHEAD RELEASE

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Standard		5	560	700	1,400
BH01	12/11/15	<1.0	<1.0	<1.0	<1.0
BH02	12/11/15	<1.0	<1.0	<1.0	<1.0
BH03	12/11/15	<1.0	<1.0	<1.0	<1.0
BH04	12/11/15	<1.0	<1.0	<1.0	<1.0

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

< = Analytical result is less than the indicated laboratory reporting limit

Groundwater standards referenced from COGCC Table 910-1

Highlighted results exceed the COGCC Table 910-1 standard



PROJECT NO:

DRAWN BY: BAM

DATE: 12/14/15



Facility
 Webster 11-32
 Weld County, CO

LEGEND:



Borehole Soil Sample



Approximate Release Location



Noble Flow Line

mg/kg Milligrams Per Kilogram

B - Benzene
 T - Toluene
 E - Ethylbenzene
 X - Total Xylenes
 TPH - Total Petroleum Hydrocarbons
 N - Naphthalene

Borehole Analytical
 Results Map
 (12/09/15)

Figure 2



PROJECT NO:

DRAWN BY: BAM

DATE: 12/14/15



Facility

Webster 11-32
Weld County, CO

LEGEND:



Groundwater Monitoring Well



Approximate Release Location



Noble Flow Line



Micrograms Per Liter

B - Benzene
 T - Toluene
 E - Ethylbenzene
 X - Total Xylenes



Groundwater Analytical
Results Map
(12/11/15)

Figure 3

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 10, 2015

Brandon Bruns
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Webster 11-32

Enclosed are the results of analyses for samples received by Summit Scientific on 12/09/15 17:25. 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



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@18-20'	1512080-01	Soil	12/09/15 09:34	12/09/15 17:25
BH02@4-8'	1512080-02	Soil	12/09/15 10:30	12/09/15 17:25
BH03@18-20'	1512080-03	Soil	12/09/15 13:45	12/09/15 17:25
BH04@18-20'	1512080-04	Soil	12/09/15 14:45	12/09/15 17:25

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.

Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

Summit Scientific 1512000

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

Page | of 1

Client: Noble/Tasman
Address:
City/State/Zip:
Phone: Fax:
Sampler Name: Brad Margaret

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: _____
Project Name: Webster 11-32
Project Number: _____

[illegible]

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/10/15 06:41

BH01@18-20'
1512080-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/09/15 09:34

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	91	50	mg/kg	1	1512090	12/09/15	12/09/15	8015M	

Date Sampled: 12/09/15 09:34

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/09/15 09:34

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512089	12/09/15	12/09/15	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: 12/09/15 09:34

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		79.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

BH02@4-8'
1512080-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512090	12/09/15	12/10/15	8015M	

Date Sampled: 12/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.2 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512089	12/09/15	12/09/15	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: 12/09/15 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		80.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	21-167		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

BH03@18-20'
1512080-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/09/15 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512090	12/09/15	12/10/15	8015M	

Date Sampled: 12/09/15 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/09/15 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512089	12/09/15	12/09/15	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: 12/09/15 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

BH04@18-20'
1512080-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/09/15 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	65	50	mg/kg	1	1512090	12/09/15	12/10/15	8015M	

Date Sampled: 12/09/15 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/09/15 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512089	12/09/15	12/09/15	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: 12/09/15 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		82.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.1 %	21-167		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

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 1512090 - EPA 3550A

Blank (1512090-BLK1)

Prepared & Analyzed: 12/09/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	11.8		"	12.5		94.0	30-150			

LCS (1512090-BS1)

Prepared & Analyzed: 12/09/15

C10-C28 (DRO)	485	50	mg/kg	499		97.3	73-134			
Surrogate: o-Terphenyl	11.8		"	12.5		94.7	30-150			

Matrix Spike (1512090-MS1)

Source: 1512078-01

Prepared & Analyzed: 12/09/15

C10-C28 (DRO)	509	50	mg/kg	459	24.1	106	50-148			
Surrogate: o-Terphenyl	11.7		"	11.5		102	30-150			

Matrix Spike Dup (1512090-MSD1)

Source: 1512078-01

Prepared & Analyzed: 12/09/15

C10-C28 (DRO)	484	50	mg/kg	470	24.1	97.9	50-148	5.10	13	
Surrogate: o-Terphenyl	11.2		"	11.8		95.3	30-150			

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

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 1512089 - EPA 5030 Soil MS

Blank (1512089-BLK1)

Prepared & Analyzed: 12/09/15

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>99.9</i>	<i>21-167</i>			

LCS (1512089-BS1)

Prepared & Analyzed: 12/09/15

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0783	0.0020	"	0.100		78.3	58-130			
Toluene	0.0827	0.0050	"	0.100		82.7	61-134			
Ethylbenzene	0.0988	0.0050	"	0.0992		99.6	74-139			
m,p-Xylene	0.190	0.010	"	0.200		95.4	73-137			
o-Xylene	0.0911	0.0050	"	0.0984		92.6	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>21-167</i>			

Matrix Spike (1512089-MS1)

Source: 1512078-01

Prepared & Analyzed: 12/09/15

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0767	0.0020	"	0.0977	ND	78.5	30-131			
Toluene	0.0816	0.0050	"	0.0977	ND	83.6	30-134			
Ethylbenzene	0.0961	0.0050	"	0.0969	ND	99.2	22-153			
m,p-Xylene	0.185	0.010	"	0.195	ND	94.8	10-159			
o-Xylene	0.0887	0.0050	"	0.0961	ND	92.3	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0394</i>		<i>"</i>	<i>0.0391</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0387</i>		<i>"</i>	<i>0.0391</i>		<i>99.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0391</i>		<i>98.8</i>	<i>21-167</i>			

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

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 1512089 - EPA 5030 Soil MS

Matrix Spike Dup (1512089-MSD1)		Source: 1512078-01			Prepared & Analyzed: 12/09/15					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0755	0.0020	"	0.0982	ND	76.9	30-131	1.57	34	
Toluene	0.0810	0.0050	"	0.0982	ND	82.4	30-134	0.822	30	
Ethylbenzene	0.0953	0.0050	"	0.0974	ND	97.8	22-153	0.855	24	
m,p-Xylene	0.183	0.010	"	0.196	ND	93.4	10-159	0.898	68	
o-Xylene	0.0890	0.0050	"	0.0967	ND	92.1	31-151	0.290	38	
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0393		99.9	23-173			
Surrogate: Toluene-d8	0.0383		"	0.0393		97.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0393		96.5	21-167			

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/10/15 06:41

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

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 13, 2015

Brandon Bruns
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Webster 11-32

Enclosed are the results of analyses for samples received by Summit Scientific on 12/11/15 17:00. 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



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/13/15 20:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	1512100-01	Water	12/11/15 12:20	12/11/15 17:00
BH02	1512100-02	Water	12/11/15 12:30	12/11/15 17:00
BH03	1512100-03	Water	12/11/15 12:35	12/11/15 17:00
BH04	1512100-04	Water	12/11/15 12:41	12/11/15 17:00

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/13/15 20:15

Summit Scientific

512100

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Client: Noble

Page 1 of 1

Address:

Project Manager: Brandon Bruns Invoice: Jacob Evans

City/State/Zip:

E-Mail:

Phone: 970 470 9042 Fax:

Project Name: Webster 11-32

Sampler Name: Rob Irvin

Project Number:

[illegible]

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/13/15 20:15

BH01
1512100-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/11/15 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1512115	12/12/15	12/12/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/11/15 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.9 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32
Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/13/15 20:15

BH02
1512100-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/11/15 12:30

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1512115	12/12/15	12/12/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/11/15 12:30

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		99.2 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	45-146		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: Webster 11-32
Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/13/15 20:15

BH03
1512100-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/11/15 12:35

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1512115	12/12/15	12/12/15	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/11/15 12:35

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		97.0 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		98.3 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		45-146		"	"	"	"	

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Project Manager: Brandon Brunns

Reported:
12/13/15 20:15

BH04
1512100-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/11/15 12:41

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1512115	12/12/15	12/12/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/11/15 12:41

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.5 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	45-146		"	"	"	"	

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Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/13/15 20:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1512115 - EPA 5030 Water MS

Blank (1512115-BLK1)

Prepared & Analyzed: 12/11/15

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.5	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	45-146			

LCS (1512115-BS1)

Prepared & Analyzed: 12/11/15

Benzene	46.3	1.0	ug/l	50.0		92.6	51-132			
Toluene	46.0	1.0	"	50.0		92.1	51-138			
Ethylbenzene	44.3	1.0	"	50.0		88.6	58-146			
m,p-Xylene	87.4	2.0	"	100		87.4	57-144			
o-Xylene	44.6	1.0	"	50.0		89.1	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.4	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.9	45-149			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	45-146			

Matrix Spike (1512115-MS1)

Source: 1512066-01

Prepared & Analyzed: 12/11/15

Benzene	51.4	1.0	ug/l	50.0	ND	103	34-141			
Toluene	51.4	1.0	"	50.0	ND	103	27-151			
Ethylbenzene	50.6	1.0	"	50.0	ND	101	29-160			
m,p-Xylene	98.2	2.0	"	100	ND	98.2	20-166			
o-Xylene	49.3	1.0	"	50.0	ND	98.5	33-159			
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.3		85.1	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.4	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.2	45-146			

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Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/13/15 20:15

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 1512115 - EPA 5030 Water MS

Matrix Spike Dup (1512115-MSD1)	Source: 1512066-01			Prepared & Analyzed: 12/11/15						
Benzene	52.5	1.0	ug/l	50.0	ND	105	34-141	2.04	32	
Toluene	52.1	1.0	"	50.0	ND	104	27-151	1.49	25	
Ethylbenzene	52.1	1.0	"	50.0	ND	104	29-160	2.94	50	
m,p-Xylene	101	2.0	"	100	ND	101	20-166	2.90	36	
o-Xylene	51.8	1.0	"	50.0	ND	104	33-159	4.99	26	
Surrogate: 1,2-Dichloroethane-d4	11.7		"	13.3		88.1	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.7	45-146			

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Project: Webster 11-32

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/13/15 20:15

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

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