

TABLE 1
URSULA #2
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
COGCC Table 910-1 Groundwater Standard (ug/L) ⁽¹⁾		5	560	700	1,400
GW01	3/23/2015	800	<1.0	750	420

Notes:

1. Groundwater standards referenced from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

COGCC = Colorado Oil and Gas Conservation Commission

ug/L = Micrograms per liter

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

BOLD= Analytical result is in exceedance of COGCC groundwater standards.

ATTACHMENT A

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 24, 2015

Brandon Bruns
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203
RE: Ursula 2

Enclosed are the results of analyses for samples received by Summit Scientific on 03/23/15 18:10. 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



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Ursula 2
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/24/15 07:50

GW01
1503195-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 03/23/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	800	100	ug/l	100	1503265	03/23/15	03/23/15	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	03/23/15	"	
Ethylbenzene	750	100	"	100	"	"	03/23/15	"	
Xylenes (total)	420	1.0	"	1	"	"	03/23/15	"	

Date Sampled: 03/23/15 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		114 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Ursula 2
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/24/15 07:50

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 1503265 - EPA 5030 Water MS

Blank (1503265-BLK1)

Prepared & Analyzed: 03/23/15

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.0		"	13.2	83.0	37-154				
Surrogate: Toluene-d8	12.7		"	13.3	95.3	45-149				
Surrogate: 4-Bromofluorobenzene	15.2		"	13.3	114	45-146				

LCS (1503265-BS1)

Prepared & Analyzed: 03/23/15

Benzene	31.3	1.0	ug/l	33.3	93.9	51-132				
Toluene	29.5	1.0	"	33.3	88.6	51-138				
Ethylbenzene	31.4	1.0	"	33.1	94.8	58-146				
m,p-Xylene	64.6	2.0	"	66.5	97.2	57-144				
o-Xylene	30.6	1.0	"	32.8	93.2	53-146				
Surrogate: 1,2-Dichloroethane-d4	11.5		"	13.2	87.0	37-154				
Surrogate: Toluene-d8	13.0		"	13.3	97.7	45-149				
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3	103	45-146				

Matrix Spike (1503265-MS1)

Source: 1503186-01

Prepared & Analyzed: 03/23/15

Benzene	31.4	1.0	ug/l	33.3	ND	94.3	34-141			
Toluene	29.6	1.0	"	33.3	ND	88.7	27-151			
Ethylbenzene	32.4	1.0	"	33.1	ND	97.8	29-160			
m,p-Xylene	65.9	2.0	"	66.5	ND	99.1	20-166			
o-Xylene	31.6	1.0	"	32.8	ND	96.3	33-159			
Surrogate: 1,2-Dichloroethane-d4	11.7		"	13.2	88.3	37-154				
Surrogate: Toluene-d8	12.6		"	13.3	94.4	45-149				
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3	105	45-146				

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PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Ursula 2
Project Number: [none]
Project Manager: Brandon Brunns

Reported:
03/24/15 07:50

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 1503265 - EPA 5030 Water MS

Matrix Spike Dup (1503265-MSD1)		Source: 1503186-01			Prepared & Analyzed: 03/23/15					
Benzene	32.2	1.0	ug/l	33.3	ND	96.7	34-141	2.51	32	
Toluene	30.5	1.0	"	33.3	ND	91.4	27-151	3.03	25	
Ethylbenzene	32.5	1.0	"	33.1	ND	98.3	29-160	0.524	50	
m,p-Xylene	66.7	2.0	"	66.5	ND	100	20-166	1.19	36	
o-Xylene	31.7	1.0	"	32.8	ND	96.6	33-159	0.348	26	
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.2		94.3	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.7	45-149			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	45-146			

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Denver CO, 80203

Project: Ursula 2
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/24/15 07:50

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'.