

Project: 7239  
Document #: 2211164  
Date: 01/22/2016



**PDC Energy, Inc.**

**First Quarter 2014 Groundwater Monitoring Summary**

February 21, 2014

Ryan 23-25U & 25BU, 14-25U/ Scott 24-25U/ MVS #1 Tank Battery  
SESW Section 25 T5N R68W  
Weld County, API # 05-069-06179

This groundwater monitoring summary has been prepared by Tasman Geosciences, LLC for the Ryan 23-25U & 25BU, 14-25U/ Scott 24-25U/ MVS #1 tank battery. On January 24, 2014, groundwater sampling was conducted at four of the five temporary monitoring well locations. A groundwater sample was not collected from BH02 due to insufficient water. Groundwater samples were submitted for laboratory analysis of BTEX constituents using USEPA Method 8260B. Analytical results are summarized in Table 1 and are illustrated on Figure 1. The laboratory analytical report is included as Attachment A. Evaluation of fourth quarter analytical results indicates that BTEX concentrations are below COGCC regulatory standards at all four sample locations.

EFR/AS activities have been successful in mitigating residual dissolved phase petroleum hydrocarbon concentrations on site, as demonstrated by the annual decrease in benzene concentrations since activities commenced during the second quarter 2012. EFR/AS events were not performed during the third and fourth quarters 2013 due to low water levels at the site. A summary of the EFR/AS operational data through the second quarter 2013 is provided in Table 2. Monitored natural attenuation will remain the selected remediation strategy for the second quarter 2014.

Second quarter 2014 groundwater sampling will be conducted during April 2014.

**TABLE 1**  
**RYAN 23-25U, 25BU, 14-25U/SCOTT 24-25U/MVS 1**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (feet)
GW01-BH-01	4/13/2012	<b>320</b>	<b>810</b>	44	490	NM
BH01	7/17/2012	<1.0	<1.0	<1.0	<1.0	14.39
BH01	10/1/2012	<1.0	<1.0	<1.0	<1.0	14.67
BH01	1/28/2013	<1.0	<1.0	<1.0	<1.0	14.9
BH01	5/3/2013	<1.0	<1.0	<1.0	<1.0	15.50
BH01	7/25/2013	<1.0	<1.0	<1.0	<1.0	16.29
BH01	10/31/2013	<1.0	<1.0	<1.0	<1.0	15.9
BH01	1/24/2014	<1.0	<1.0	<1.0	<1.0	15.53
GW02-BH02	4/13/2012	<b>7,100</b>	<b>14,000</b>	420	<b>4,400</b>	NM
BH02	7/17/2012	DRY	DRY	DRY	DRY	DRY
BH02	10/1/2012	DRY	DRY	DRY	DRY	DRY
BH02	1/28/2013	DRY	DRY	DRY	DRY	DRY
BH02	5/3/2013	DRY	DRY	DRY	DRY	DRY
BH02	7/25/2013	DRY	DRY	DRY	DRY	DRY
BH02	10/31/2013	DRY	DRY	DRY	DRY	DRY
BH02	1/24/2014	DRY	DRY	DRY	DRY	DRY
GW03-BH03	4/13/2012	<b>11,000</b>	<b>13,000</b>	300	<b>3,500</b>	NM
BH03	7/17/2012	<b>1,400</b>	<b>710</b>	20	250	13.82
BH03	10/1/2012	<b>41</b>	<b>47</b>	3	32	14.2
BH03	1/28/2013	DRY	DRY	DRY	DRY	DRY
BH03	5/3/2013	<1.0	<1.0	<1.0	<1.0	14.81
BH03	7/25/2013	DRY	DRY	DRY	DRY	DRY
BH03	10/31/2013	DRY	DRY	DRY	DRY	DRY
BH03	1/24/2014	<1.0	<1.0	<1.0	<1.0	14.82
GW04-BH04	4/13/2012	<b>3,100</b>	<b>3,900</b>	150	<b>1,700</b>	NM
BH04	7/17/2012	<b>1,500</b>	490	<1.0	<b>1,900</b>	13.21
BH04 <sup>(2)</sup>	10/1/2012	<b>2,400</b>	66	53	<b>1,800</b>	13.58
BH04R	1/28/2013	<b>26</b>	<1.0	<1.0	<b>77</b>	14.53
BH04R	5/3/2013	<1.0	<1.0	<1.0	<1.0	15.22
BH04R	7/25/2013	2	<1.0	<1.0	<1.0	16.12
BH04R	10/31/2013	<1.0	<1.0	<1.0	4.1	15.77
BH04R	1/24/2014	<1.0	<1.0	3.3	<1.0	15.24

**TABLE 1**  
**RYAN 23-25U, 25BU, 14-25U/SCOTT 24-25U/MVS 1**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE**

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Benzene (ug/L)</b>	<b>Toluene (ug/L)</b>	<b>Ethylbenzene (ug/L)</b>	<b>Total Xylenes (ug/L)</b>	<b>Depth to Water (feet)</b>
GW05-BH05	4/13/2012	<b>510</b>	<b>3,400</b>	190	<b>2,200</b>	NM
BH05	7/17/2012	<1.0	<1.0	<1.0	<1.0	13.3
BH05	10/1/2012	<1.0	<1.0	<1.0	<1.0	15.6
BH05	1/28/2013	<1.0	<1.0	<1.0	<1.0	15.74
BH05	5/3/2013	<1.0	<1.0	<1.0	<1.0	16.45
BH05	7/25/2013	DRY	DRY	DRY	DRY	DRY
BH05	8/31/2013	DRY	DRY	DRY	DRY	DRY
BH05	10/31/2013	DRY	DRY	DRY	DRY	DRY
BH05	1/24/2014	<1.0	<1.0	<1.0	<1.0	16.49
<b>COGCC standards for Groundwater (ug/L) <sup>(1)</sup></b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	

Notes:

- 1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.
- 2). Groundwater sample collection at BH04 discontinued following installation of BH04R during the fourth quarter 2012.

**Bold red** values indicate an exceedance of the COGCC groundwater standards for the site.

ug/L= Micrograms per liter

NR - Not Recorded

**TABLE 2**  
**RYAN 23-25U, 25BU, 14-25U/SCOTT 24-25U/MVS 1**  
**AIR SPARGE/ EFR OPERATIONAL SUMMARY TABLE**

Second Quarter 2012					
Date	EFR Wells	Total EFR/AS Duration (hours)	Approximate Gallons Extracted	AS Wells	Injection Pressure (psi)
5/29/2012	BH01, BH02, BH03,	6	210	BH01, BH02, BH03,	8
6/13/2012	BH04, BH05	6	210	BH04, BH05	8
<b>Quarterly Totals</b>		12	420		-
Third Quarter 2012					
7/2/2012	BH01, BH02, BH03, BH04, BH05	6	252	BH01, BH02, BH03, BH04, BH05	8
7/10/2012		6	210		8
7/25/2012		6	207		8
8/18/2012		7	124.5		7.5
8/21/2012		8	124.5		8
9/4/2012		7	0		8
<b>Quarterly Totals</b>		40	918		-
Fourth Quarter 2012					
10/3/2012	BH01, BH02, BH03, BH04, BH05	7	83	BH01, BH02, BH03, BH04, BH05	8
10/30/2012		6	11.5		8
11/13/2012		6	23		8
11/29/2012		6.5	14.6		8
12/6/2012		6.5	7.5		8
<b>Quarterly Totals</b>		32	139.6		-
First Quarter 2013					
1/7/2013	BH03, BH04, BH05	5	10	BH03, BH04, BH05	10
3/25/2013		6	26		10
<b>Quarterly Totals</b>		11	36		-
Second Quarter 2013					
4/14/2013	BH03, BH04, BH05	6	23.5	BH03, BH04, BH05	10
4/25/2013		6	16		10
5/10/2013		6	22		10
<b>Quarterly Totals</b>		18	61.5		-



Surface  
Drainage

BH03		
Compound (ug/L)	10/31/2013	1/24/2014
Benzene	DRY	<1.0
Toluene	DRY	<1.0
Ethylbenzene	DRY	<1.0
Total Xylenes	DRY	<1.0

BH-03

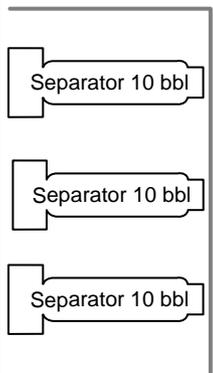
BH04R		
Compound (ug/L)	10/31/2013	1/24/2014
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	3.3
Total Xylenes	4.1	<1.0

BH-04R

BH-04  
(destroyed)

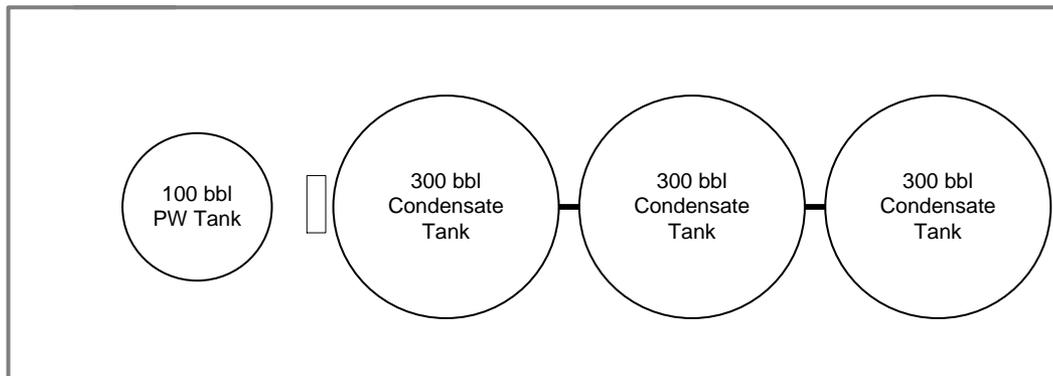
BH05		
Compound (ug/L)	10/31/2013	1/24/2014
Benzene	DRY	<1.0
Toluene	DRY	<1.0
Ethylbenzene	DRY	<1.0
Total Xylenes	DRY	<1.0

BH-05



BH01

BH01		
Compound (ug/L)	10/31/2013	1/24/2014
Benzene	<1.0	<1.0
Toluene	<1.0	<1.0
Ethylbenzene	<1.0	<1.0
Total Xylenes	<1.0	<1.0



BH02

BH02		
Compound (ug/L)	10/31/2013	1/24/2014
Benzene	DRY	DRY
Toluene	DRY	DRY
Ethylbenzene	DRY	DRY
Total Xylenes	DRY	DRY

Note:  
Surface drainage direction is  
estimated based on site  
topography and is not related  
to regional topography.

DRAWN BY: BAM

DATE: 2/5/2014

**Facility Diagram**  
PDC Energy – DJ Basin  
Ryan 23-25U & 25BU, 14-25U/ Scott 24-25U/ MVS #1  
SESW T5N R68W S25  
Weld County, CO



6899 Pecos St., Unit C  
Denver CO 80221

LEGEND

- Corrugated Steel Berm
- ⊗ Monitoring Well Location. Soil and Groundwater Samples Collected
- ⊗ Sampling Discontinued from Monitoring Well Location

M Meter Shed

FIGURE 1  
GROUNDWATER  
ANALYTICAL RESULTS  
MAP  
Not to Scale

**ATTACHMENT A**

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 03, 2014

Brandon Bruns  
PDC Energy  
1775 Sherman St. STE. 3000  
Denver, CO 80203  
RE: Ryan/Scott/MVS

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/14 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury  
President / Laboratory Manager



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

Project: Ryan/Scott/MVS

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/03/14 16:05

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	1401140-01	Water	01/24/14 00:00	01/24/14 16:30
BH03	1401140-02	Water	01/24/14 00:00	01/24/14 16:30
BH04R	1401140-03	Water	01/24/14 00:00	01/24/14 16:30
BH05	1401140-04	Water	01/24/14 00:00	01/24/14 16:30

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: Ryan/Scott/MVS

Project Number: [none]  
 Project Manager: Brandon Bruns

Reported:  
 02/03/14 16:05

Page 1 of 1

1401140

# Summit Scientific

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
 303-277-8310 • 303-374-8933 Fax

Client: PDC Taoran  
 Address: 6899 Rice Unit C  
 City/State/Zip: Denver CO  
 Phone: 970 290 1611 Fax:  
 Sampler Name: Andrew Fisher

Project Manager: Christina Worbo  
 E-Mail: christa@pdcenergy.com  
 Project Name: Ryan/Scott/MVS  
 Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative					Matrix				Analyze For:	Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)				
B#101	1/24		2	X											
B#103															
B#104															
B#105															

Retrieved by: <u>Andrew Fisher</u>	Date/Time: <u>1/24 16:30</u>	Received by: <u>MD</u>	Date/Time: <u>1/24/14 16:30</u>	Turn Around Time (Check)	Notes:
Relinquished by:				Same Day <input type="checkbox"/>	
				24 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
				48 Hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
Retransmitted by:				Sample Integrity: <u>40c</u>	
				Temperature Upon Receipt: <u>40c</u>	
				Impact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

www.SummitScientific.com



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

Project: Ryan/Scott/MVS

Project Number: [none]  
 Project Manager: Brandon Brunns

**Reported:**  
 02/03/14 16:05

**BH01**  
**1401140-01 (Water)**

**Summit Scientific**

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

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1401150	01/30/14	01/30/14	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>123 %</i>	<i>37-154</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>45-149</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>105 %</i>	<i>45-146</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.*



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

Project: Ryan/Scott/MVS

Project Number: [none]  
 Project Manager: Brandon Brunns

**Reported:**  
 02/03/14 16:05

**BH03**  
**1401140-02 (Water)**

**Summit Scientific**

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

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1401150	01/30/14	01/30/14	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>100 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>97.4 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</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.*



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

Project: Ryan/Scott/MVS

Project Number: [none]  
 Project Manager: Brandon Bruns

**Reported:**  
 02/03/14 16:05

**BH04R**  
**1401140-03 (Water)**

**Summit Scientific**

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

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1401150	01/30/14	01/30/14	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.3</b>	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		124 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	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: Ryan/Scott/MVS

Project Number: [none]  
 Project Manager: Brandon Bruns

**Reported:**  
 02/03/14 16:05

**BH05**  
**1401140-04 (Water)**

**Summit Scientific**

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

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1401150	01/30/14	01/30/14	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/24/14 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>136 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>107 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</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.*



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

Project: Ryan/Scott/MVS  
Project Number: [none]  
Project Manager: Brandon Bruns

Reported:  
02/03/14 16:05

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1401150 - EPA 5030 Water MS**

**Blank (1401150-BLK1)**

Prepared & Analyzed: 01/31/14

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		104			37-154	
Surrogate: Toluene-d8	13.4		"	13.3		100			45-149	
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0			45-146	

**LCS (1401150-BS1)**

Prepared & Analyzed: 01/31/14

Benzene	32.5	1.0	ug/l	33.3		97.4			51-132	
Toluene	34.5	1.0	"	33.3		104			51-138	
Ethylbenzene	39.7	1.0	"	33.3		119			58-146	
m,p-Xylene	70.8	2.0	"	66.7		106			57-144	
o-Xylene	36.3	1.0	"	33.3		109			53-146	
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		103			37-154	
Surrogate: Toluene-d8	13.2		"	13.3		99.1			45-149	
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0			45-146	

**Matrix Spike (1401150-MS1)**

Source: 1401139-08

Prepared & Analyzed: 01/31/14

Benzene	32.8	1.0	ug/l	33.3	ND	98.5			34-141	
Toluene	35.0	1.0	"	33.3	ND	105			27-151	
Ethylbenzene	39.1	1.0	"	33.3	ND	117			29-160	
m,p-Xylene	70.7	2.0	"	66.7	ND	106			20-166	
o-Xylene	36.2	1.0	"	33.3	ND	109			33-159	
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.2		106			37-154	
Surrogate: Toluene-d8	13.4		"	13.3		100			45-149	
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.2			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: Ryan/Scott/MVS

Project Number: [none]  
 Project Manager: Brandon Brunns

**Reported:**  
 02/03/14 16:05

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1401150 - EPA 5030 Water MS**

<b>Matrix Spike Dup (1401150-MSD1)</b>	<b>Source: 1401139-08</b>			<b>Prepared &amp; Analyzed: 01/31/14</b>						
Benzene	33.0	1.0	ug/l	33.3	ND	99.1	34-141	0.547	32	
Toluene	35.1	1.0	"	33.3	ND	105	27-151	0.285	25	
Ethylbenzene	40.0	1.0	"	33.3	ND	120	29-160	2.28	50	
m,p-Xylene	72.5	2.0	"	66.7	ND	109	20-166	2.61	36	
o-Xylene	37.8	1.0	"	33.3	ND	113	33-159	4.16	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.7</i>		<i>"</i>	<i>13.2</i>		<i>104</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.6</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.0</i>	<i>45-146</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.*



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

Project: Ryan/Scott/MVS

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/03/14 16:05

### 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

*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.*