

GROUNDWATER MONITORING REPORT

DECEMBER 2012

DECHANT 1-31A (API 05-123-11685)
REMEDATION # PENDING

PDC ENERGY, INC.
DJ BASIN

This report summarizes the results of recent groundwater sampling conducted by LT Environmental, Inc. (LTE), on behalf of PDC Energy, Inc. (PDC), at the Dechant 1-31A site located in the Denver Julesburg Basin (DJ Basin) of northeastern Colorado (Figure 1).

Prior to sampling, groundwater level measurements were collected from the monitoring wells and are summarized in Table 1. A site map illustrating well locations is presented on Figure 2. Following purging, groundwater samples were collected and then submitted under strict chain of custody protocol to Summit Scientific in Golden, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B. Analytical results from the groundwater samples are also presented in Table 1. The laboratory analytical report is attached.

LTE will continue to conduct quarterly groundwater monitoring events with the goal of observing four consecutive quarters of analytical results in compliance with applicable regulatory standards as set forth on Table 910-1 of the Colorado Oil and Gas Commission Rules.



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
DECHANT 1-31A API No. 05-123-11685
WELD COUNTY
PDC ENERGY, INC.

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Depth to Water (ft btoc)
MW01	12/16/2009	<1.0	1.5	47	540	NM
	06/22/2010			Damaged - Not Sampled		
MW02	12/16/2009	62	1300	610	5600	NM
	06/22/2010			Damaged - Not Sampled		
MW03	12/16/2009	440	6000	960	12000	NM
	06/22/2010			Damaged - Not Sampled		
MW04	12/16/2009	<1.0	13	240	3000	NM
	06/22/2010	<1.0	<1.0	23	260	18.05
	09/17/2010	<1.0	<1.0	9.5	81	17.41
	12/09/2010	<1.0	<1.0	1.4	6.7	16.88
	03/10/2011			Damaged - Not Sampled		
	06/08/2011			Damaged - Not Sampled		
	09/26/2011			Not Found - Not Sampled		
	12/29/2011			Not Found - Not Sampled		
	03/07/2012			Not Found - Not Sampled		
	06/26/2012			Damaged - Not Sampled		
MW05	12/16/2009	140	1400	960	12000	NM
	06/22/2010			Damaged - Not Sampled		
MW07	12/16/2009	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2010	<1.0	<1.0	<1.0	<1.0	21.45
	09/17/2010	<1.0	<1.0	<1.0	<1.0	20.83
	12/09/2010	<1.0	<1.0	<1.0	<1.0	20.32
	03/10/2011	<1.0	<1.0	<1.0	<1.0	20.10
	06/08/2011	<1.0	<1.0	<1.0	<1.0	20.00
	09/26/2011	<1.0	<1.0	<1.0	<1.0	19.71
	12/29/2011			Not Found - Not Sampled		
	03/07/2012	<1.0	<1.0	<1.0	<1.0	19.39
	06/26/2012	<1.0	<1.0	<1.0	<1.0	18.55
	09/20/2012	<1.0	<1.0	<1.0	<1.0	18.89
	12/12/2012	<1.0	<1.0	<1.0	<1.0	18.56
MW08	12/16/2009	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2010			Damaged - Not Sampled		
MW09	12/16/2009	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2010	<1.0	<1.0	<1.0	<1.0	17.62
	09/17/2010	<1.0	<1.0	<1.0	<1.0	17.03
	12/09/2010	<1.0	<1.0	<1.0	<1.0	16.51
	03/10/2011	<1.0	<1.0	<1.0	<1.0	16.32
	06/08/2011	<1.0	<1.0	<1.0	<1.0	15.15
	09/26/2011	<1.0	<1.0	<1.0	<1.0	15.93
	12/29/2011	<1.0	<1.0	<1.0	<1.0	15.65
	03/07/2012	<1.0	<1.0	<1.0	<1.0	15.59
	06/26/2012	<1.0	<1.0	<1.0	<1.0	14.73
	09/20/2012			Not Found - Not Sampled		
	12/12/2012	<1.0	<1.0	<1.0	<1.0	14.83
MW10	12/16/2009	310	1000	690	8700	NM
	06/22/2010	8.4	5.1	30	720	17.95
	09/17/2010	55	<1.0	45	280	17.36
	12/09/2010	34	<1.0	780	3700	16.83
	03/10/2011	12	<1.0	870	2600	16.60
	06/08/2011	<1.0	<1.0	28	140	16.70
	09/26/2011	4.3	5.2	220	3100	16.29

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Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Depth to Water (ft btoc)
	12/29/2011	Frozen - Not Sampled				
	03/07/2012	27	12	700	5300	15.89
	06/26/2012	Damaged - Not Sampled				
MW10R	08/17/2012	5.8	2.3	460	10000	NM
	09/20/2012	5.4	<1.0	440	7.5	17.95
	12/12/2012	5.8	<1.0	350	7000	17.88
MW11	01/18/2010	1.0	<1.0	4.9	<1.0	NM
	06/22/2010	<1.0	<1.0	<1.0	<1.0	18.70
	09/17/2010	<1.0	<1.0	<1.0	<1.0	18.16
	12/09/2010	<1.0	<1.0	<1.0	<1.0	17.55
	03/10/2011	Damaged - Not Sampled				
	06/08/2011	Damaged - Not Sampled				
	09/26/2011	Not Found - Not Sampled				
MW12	01/18/2010	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2010	<1.0	<1.0	<1.0	<1.0	18.85
	09/17/2010	<1.0	<1.0	<1.0	<1.0	18.25
	12/09/2010	<1.0	<1.0	<1.0	<1.0	17.69
	03/10/2011	<1.0	<1.0	<1.0	<1.0	17.42
	06/08/2011	<1.0	<1.0	<1.0	<1.0	17.33
	09/26/2011	<1.0	<1.0	<1.0	<1.0	17.16
	12/29/2011	Frozen - Not Sampled				
	03/07/2012	<1.0	<1.0	<1.0	<1.0	16.74
	06/26/2012	Damaged - Not Sampled				
MW13	01/18/2010	35	<1.0	230	73	NM
	06/22/2010	5.1	<1.0	290	<1.0	18.56
	09/17/2010	13	<1.0	160	<1.0	17.95
	12/09/2010	4.4	<1.0	160	<1.0	17.42
	03/10/2011	<1.0	<1.0	23	3.4	16.15
	06/08/2011	<1.0	<1.0	110	<1.0	17.04
	09/26/2011	2.1	<1.0	190	2.3	16.84
	12/29/2011	<1.0	<1.0	190	<1.0	16.51
	03/07/2012	<1.0	<1.0	150	<1.0	16.45
	06/26/2012	<1.0	<1.0	150	13	15.64
	09/20/2012	Not Found - Not Sampled				
MW14	12/12/2012	<1.0	<1.0	110	<1.0	15.70
	01/18/2010	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2010	<1.0	<1.0	<1.0	<1.0	19.06
	09/17/2010	3.9	<1.0	180	25	18.49
	12/09/2010	<1.0	<1.0	3.8	<1.0	17.94
	03/10/2011	1.2	<1.0	8.8	<1.0	17.64
	06/08/2011	<1.0	<1.0	1.3	<1.0	17.69
	09/26/2011	2.8	<1.0	150	3.0	17.37
	12/29/2011	<1.0	<1.0	26	<1.0	17.03
	03/07/2012	<1.0	<1.0	<1.0	<1.0	16.95
	06/26/2012	Damaged - Not Sampled				
MW15	02/10/2010	240	<1.0	340	1600	NM
	06/22/2010	<1.0	<1.0	<1.0	<1.0	17.04
	09/17/2010	Not Found - Not Sampled				
	12/09/2010	Not Found - Not Sampled				
	03/10/2011	Not Found - Not Sampled				
	06/08/2011	Not Found - Not Sampled				

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MW16	02/10/2010	44	<1.0	130	450	NM
	06/22/2010	<1.0	<1.0	4.4	12	16.72
	09/17/2010			Not Found - Not Sampled		
	12/09/2010			Not Found - Not Sampled		
	03/10/2011			Not Found - Not Sampled		
	06/08/2011			Not Found - Not Sampled		
Basic Standards for Groundwater		5	560	700	1400	

Notes: < - less than ug/L - micrograms per Liter NA - Not Analyzed/Not Available
ft btoc - feet below top of casing NM - Not measured API - American Petroleum Institute
Basic Standards for Groundwater are taken from the Colorado Department of Health and Environment (CDPHE) -
Water Quality Control Commission (WQCC) Regulation 41, May 2008
Bold numbers indicate result equalled or exceeded standard.

