

DCP Midstream 370 17th Street, Suite 2500 Denver, CO 80202 **303-595-3331** 303-605-2226 *FAX*

June 21, 2011

Mr. Leonard Lowe Environmental Engineer New Mexico Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505

RE: 1st Quarter 2011 Groundwater Results

DCP Midstream, LP RR Ext. Pipeline Release (AP #55) Unit C, Section 19, Township 20 South, Range 37 East

Lea County, New Mexico

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 1st Quarter 2011 Groundwater Results for the DCP RR Ext. Pipeline Release located in Lea County, New Mexico (Unit C, Section 19, Township 20 South, Range 37 East).

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me swweathers@dcpmidstream.com.

Sincerely

DCP Midstream, LP

Stephen Weathers, PG

Principal Environmental Specialist

cc: Larry Johnson, OCD Hobbs District Office (Copy on CD)

Environmental Files

June 3, 2011

Mr. Stephen Weathers DCP Midstream, LP 370 17th Street, Suite 2500 Denver, CO 80202

Re:

Summary of Well Installation and First Quarter 2011 Groundwater Monitoring

Activities at the DCP Midstream RR Ext Pipeline Release

Unit C, Section 19 Township 20 South, Range 37 East (AP #55)

Dear Mr. Weathers:

This letter report summarizes the first quarter 2011 field activities that were completed at the DCP Midstream (DCP) RR Ext Site (Figure 1). The approximate site coordinates are 32.5624 north, 103.2923 west.

The field activities included well installation and groundwater monitoring. The following section summarizes the well installation activities. The third section discusses the groundwater monitoring results. The final section provides recommendations.

MONITORING WELL INSTALLATION

The January 2011 field activities included the installation, development and sampling of groundwater monitoring wells MW-13, MW-14, MW-15 and MW-16 (Figure 2). The activities were proposed in the third quarter 2010 quarterly groundwater monitoring report. The work was completed the week of January 24, 2011 after receiving approval from the State Land Office.

The wells were installed with a hollow-stem auger drilling rig using the protocols included in the February 2010 work plan. The four wells were installed to a nominal depth of 41 feet below ground surface (bgs). The locations and elevations for wells MW-8 to MW-16 were surveyed by a professional surveyor licensed in New Mexico.

Well construction information for the existing and new wells is summarized in Table 1. The surface completion for each well included an above-ground well protector and a minimum 2 foot by 2 foot concrete pad. All cuttings generated during the drilling process were placed on and then covered with visqueen pending appropriate disposal.

The four new wells were developed by bailing a minimum of 10 gallons. The wells were then purged and sampled as part of the quarterly groundwater monitoring event described below.

Mr. Stephen Weathers RR Ext June 3, 2011 Page 2

GROUNDWATER MONITORING

The fluid levels in all sixteen wells were measured to calculate the casing volumes. Wells MW-3, MW-4, MW-5, MW-9 and MW-10 contained free phase hydrocarbon (FPH) so they were not purged and sampled.

The remaining 11 wells were first purged to equilibration using dedicated bailers based on the field parameters of temperature, pH and conductivity. They were then sampled for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method SW846 8260B and for chlorides using Method SM 4500 CL C. A field duplicate from MW-2 and a matrix spike/matrix spike duplicate (MS/MSD) from MW-6 were also collected to evaluate quality control. All affected purge water was disposed of at the DCP Linam Ranch facility.

The water gauging data are summarized in Table 2. The water-table elevations for the wells containing FPH were adjusted using the following formula:

$$GWE_{corr} = MGWE + (PT*PD)$$
: where

- MGWE is the actual measured groundwater elevation;
- PT is the measured free-phase hydrocarbon thickness; and
- PD is the free phase hydrocarbon density (assumed 0.75)

All of the adjusted water-table elevation data are attached. Well hydrographs are plotted on Figure 3 for MW-1 to MW-8. Figure 3 indicates that the water table elevations have increased on a near-continuous basis since December 2009. The water table is now at its highest elevation since measurements began in 2008.

The FPH thickness data for MW-3, MW-4, MW-5, MW-9 and MW-10 are summarized in Table 3 and plotted on Figure 4. The FPH thickness decreased in all five wells.

The measured water table elevations from all sixteen wells were used to generate a groundwater contour map using the Surfer program with a kriging option (Figure 5). The additional wells provided better definition of the groundwater flow direction and gradient. The groundwater appears to flow to the southeast.

The groundwater velocity can be estimated by assuming that the hydraulic conductivity falls between $1x10^{-4}$ and $1x10^{-3}$ centimeters per second (cm/sec) and an effective porosity of 0.25 and applying Darcy's equation.

Mr. Stephen Weathers RR Ext June 3, 2011 Page 3

V=k*i/n; where

V: groundwater velocity (feet/year [ft/yr])

k: hydraulic conductivity 1×10^{-4} to 1×10^{-3} cm/sec (103.5 to 1,035.3 ft/yr) based upon the saturated materials that are described as fine-to-very-fine, well-sorted sands with varying percentages of fines.

i: groundwater gradient (0.0012 ft/ft)

n: effective porosity

The resulting groundwater velocity is estimated at between 0.5 and 5.0 feet per year. This low value primarily results from the shallow groundwater gradient.

The sampling data are summarized in Table 4. The measured field parameters and a copy of the laboratory report are attached. The quality control evaluation data can be summarized as follows:

- The analyses were all completed within the required holding times.
- The method blanks were all within their control limits.
- The blank spikes were all within their control limits.
- The individual sample surrogates results were within the method ranges.
- The matrix spike/matrix spike duplicates for MW-6 were within their control ranges.
- The differences between the MW-1 primary and duplicate samples were all less than 10.5 percent or they could not be calculated because of non-detect values.

The above results indicate that the data are suitable for evaluation for groundwater monitoring purposes.

The New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are included at the top of Table 3. The results can be summarized as follows:

- 1. There is FPH present in MW-3, MW-4, MW-5, MW-9 and MW-10.
- 2. There were no BTEX detections above the method reporting limits in wells MW-6, MW-7, MW-8, MW-11, MW-12 MW-13, MW-14, MW-15 and MW-16.
- 3. Wells MW-1 and MW-2 exceeded the benzene standard but not the toluene, ethylbenzene and xylene standards.

Figure 6 posts the benzene concentrations and locations of the wells that contained FPH for the sampling event. Comparison of these values to the groundwater flow pattern shown in Figure 5 demonstrates that the dissolved phase BTEX plume attenuates to below the both the NMWQCC standards and the method reporting limits before encountering the down-gradient boundary wells MW-6, MW-7, MW-11, MW-12, MW-15 and MW-16.

Mr. Stephen Weathers RR Ext June 3, 2011 Page 4

All of the BTEX data collected for this project are attached to this report. Figure 7 graphs the benzene concentration verses time for wells MW-1 and MW-2. The concentration in MW-2 has been constant during the third and fourth quarter 2010 and the first quarter 2011 monitoring events. The concentration in MW-1 appears to have declined between fourth quarter 2010 and the first quarter 2011. This decrease could represent misreporting by the laboratory; however, the toluene, ethylbenzene and xylene concentrations were reported at their historic concentration levels. The source of this decrease should be clarified during the succeeding monitoring events.

The chloride data are summarized in Table 5. The concentrations all lie within a narrow range between 320 and 529 mg/l. Figure 8 shows the chlorides concentrations for this event.

The chloride concentrations verses time are plotted on Figure 9. The graphs indicate that the chloride values appear to be increasing in all of the wells regardless of they are upgradient, within or down-gradient (MW-6 and MW-7) of the remediated release site.

CONCLUSIONS AND RECOMMENDATIONS

AEC concludes that the dissolved-phase BTEX plume boundaries have been delineated. No additional wells need to be installed.

Also, the data suggests that the FPH thickness is decreasing naturally. The current FPH thickness is now below 1.0 feet making it difficult to artificially removal of substantial volumes of FPH. AEC recommends continued FPH measurement and evalution on a quarterly basis.

The next sampling event will be completed during the second quarter of 2011. Do not hesitate to contact me if you have any questions or comments on this document.

Respectfully Submitted,

Muchael H. Stewart

AMÉRICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart, P.E., C.P.G.

Principal Engineer

attachments

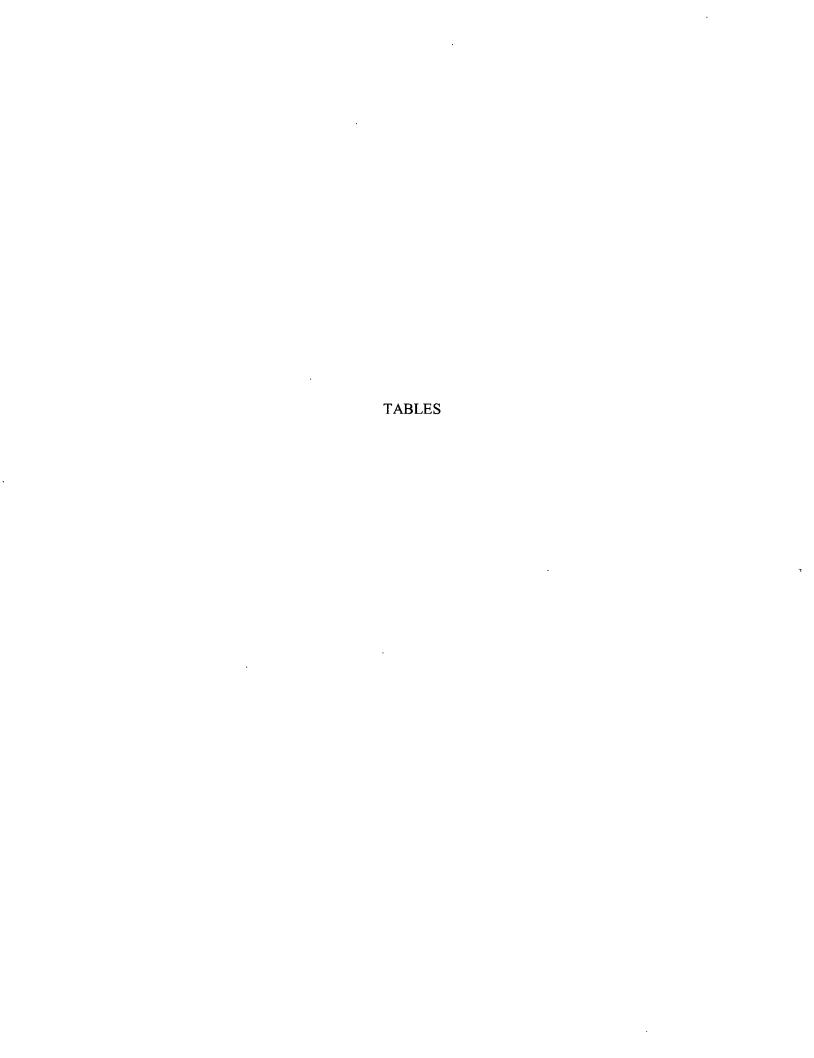


Table 1 – Summary of Well Construction at the DCP RR Ext Location

Well	Date Installed	Total Depth (ground)	Screen Interval (ground)	Sand Interval
MW-1	3/08	37.5	17.5-37.5	16-37.5
MW-2	3/08	37.5	17.5-37.5	16-37.5
MW-3	3/08	37.5	17.5-37.5	16-37.5
MW-4	3/08	37.5	17.5-37.5	16-37.5
MW-5	3/08	37.5	17.5-37.5	16-37.5
MW-6	6/08	37.5	17.5-37.5	16-37.5
MW-7	6/08	37.5	17.5-37.5	16-37.5
MW-8	6/08	37.5	17.5-37.5	16-37.5
MW-9	6/10	38	18-38	16-38
MW-10	6/10	38	18-38	16-38
MW-11	6/10	38	18-38	16-38
MW-12	6/10	38	18-38	16-38
MW-13	1/11	40	17.5-40	20-40
MW-14	1/11	41	19-41	21-41
MW-15	1/11	41.3	18-41.3	20.3-40.3
MW-16	1/11	41.4	17.5-41.4	21.4-41.4

Units are feet

All wells are 2-inch diameter

Wells were grouted to the surface with hydrated bentonite pellets and completed with above-ground well protectors

Table 2 - Summary of First Quarter 2011 Fluids Measurement Data

Well	Depth to	Depth to	FPH	Water Table
Wen	Water	Product	Thickness	Elevation
MW-1	29.01			3505.56
MW-2	29.90			3505.28
MW-3	31.53	31.05	0.48	3505.40
MW-4	30.58	30.03	0.55	3505.03
MW-5	31.20	30.75	0.45	3505.06
MW-6	31.19			3504.97
MW-7	31.89			3505.20
MW-8	30.84			3505.57
MW-9	29.53	28.50	1.03	3505.44
MW-10	29.49	28.59	0.90	3505.40
MW-11	31.05			3505.14
MW-12	29.28			3505.19
MW-13	30.44			3505.64
MW-14	29.48			3505.48
MW-15	29.66			3505.24
MW-16	28.53			3505.15
Unite are East				

Units are Feet

Table 3 - Free Phase Hydrocarbon Thickness Summary

Well	MW-3	MW-4	MW-5	MW-9	MW-10
03/19/08	0.00	0.00	0.00		
06/29/08	0.00	0.00	0.00		
09/17/08	0.00	0.00	0.00		
12/03/08	0.00	0.00	0.00		
05/19/09	0.00	0.00	0.00		
09/23/09	0.00	1.00	0.00		
12/20/09	0.00	1.88	0.00		
03/22/10	0.00	1.71	0.27		
06/30/10	0.94	1.56	1.62	1.33	1.10
09/28/10	0.91	0.58	1.28	1.20	1.60
12/09/10	0.77	1.06	1.07	1.10	1.47
03/30/11	0.48	0.55	0.45	1.03	0.90

Units are Feet Blank cell: Well not installed

Table 4 - RR Ext First Quarter 2011 Groundwater Sampling Results

Well	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Chlorides
NMWQCC Standards	0.010	0.75	0.75	0.62	250
MW-1	0.0241	0.0136	<0.01	0.0055 J	457
MW-2	16.6	0.403	0.165 J	0.116 J	320
MW-2 DUP	16.0	0.363	< 0.2	< 0.2	320
MW-6	< 0.001	< 0.002	< 0.002	0.00084 J	386
MW-7	< 0.001	< 0.002	< 0.002	< 0.002	382
MW-8	< 0.001	< 0.002	< 0.002	< 0.002	529
MW-11	< 0.001	< 0.002	< 0.002	< 0.002	406
MW-12	< 0.001	< 0.002	< 0.002	< 0.002	498
MW-13	< 0.001	< 0.002	< 0.002	< 0.002	326
MW-14	< 0.001	< 0.002	< 0.002	< 0.002	520
MW-15	< 0.001	< 0.002	< 0.002	< 0.002	303
MW-16	< 0.001	< 0.002	< 0.002	< 0.002	295
Trip Blank	< 0.001	< 0.002	< 0.002	< 0.002	

Units mg/l

NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards J: Estimated concentration between the method detection limit and the reporting limit

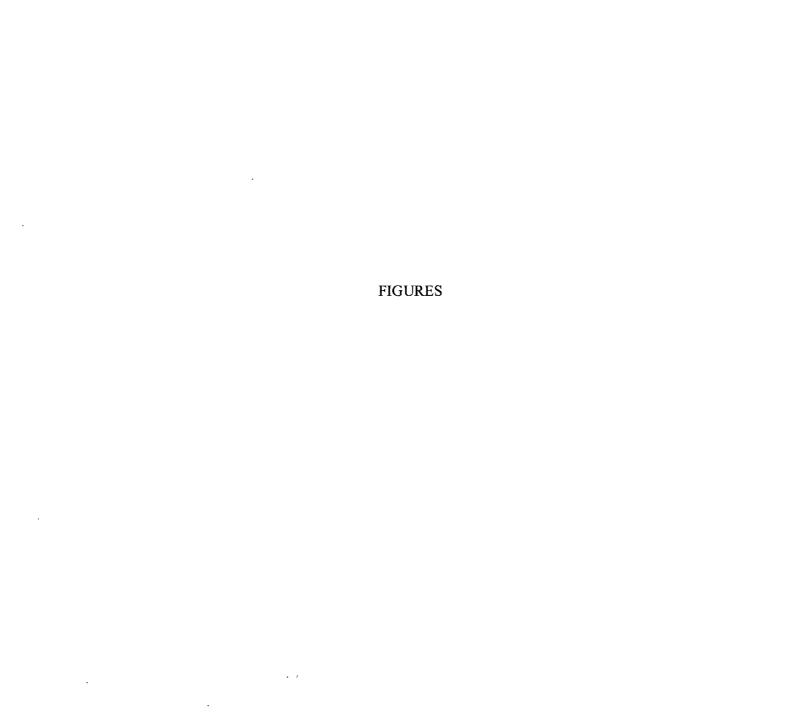
Wells MW-3, MW-4, MW-5, MW-9 and MW-10 contained free phase hydrocarbons and were not sampled

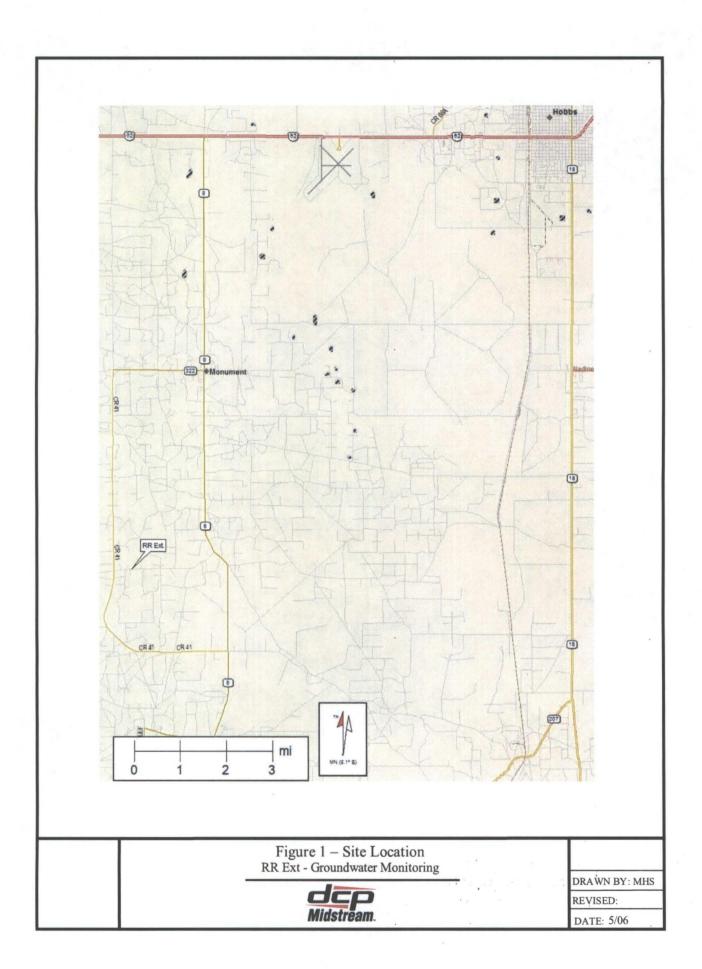
Table 5 - RR Ext Chlorides Groundwater Monitoring Results Summary

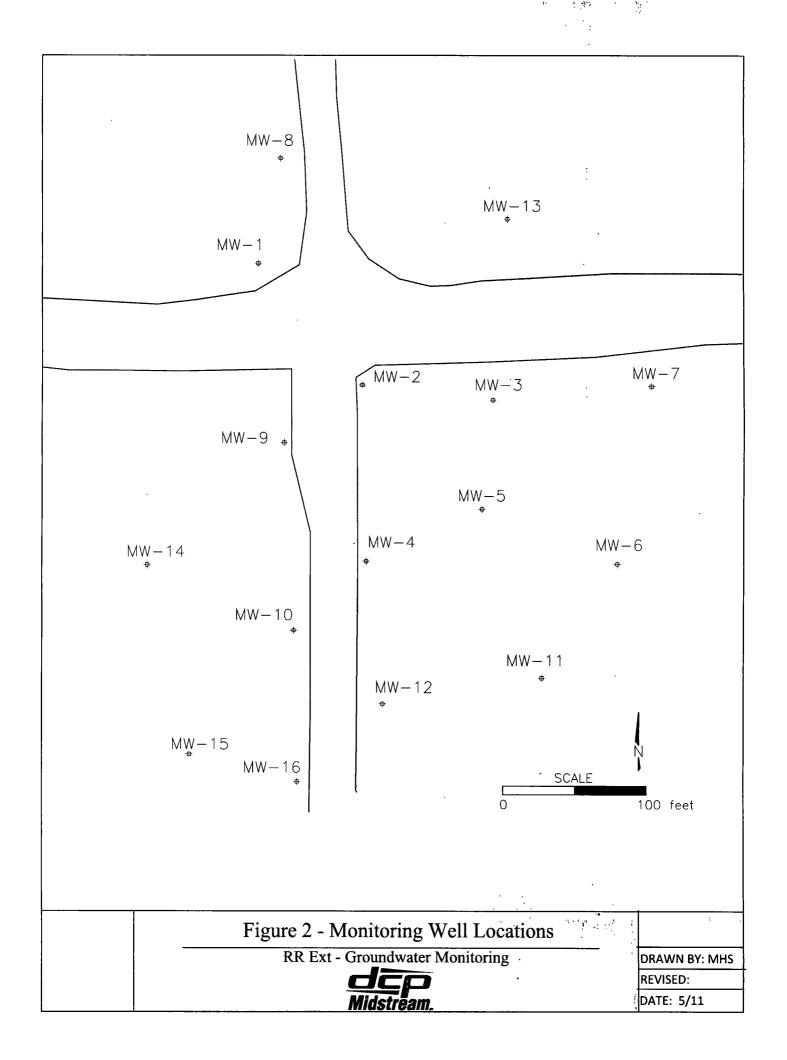
Well	9/08	12/08	3/09	5/09	9/09	12/09	3/10
		-					
MW-1	507	447	432	462	422	363	800
MW-2	109	NS	114	109	139	199	700
MW-3	363	301	273	313	363	398	440
MW-4	318	281	229	226	FPH	FPH	FPH
MW-5	373	318	288	363	358	313	FPH
MW-6	363	325	298	308	296	393	700
MW-7	378	348	283	298	273	328	750
MW-8	512	393	472	450	477	472	800

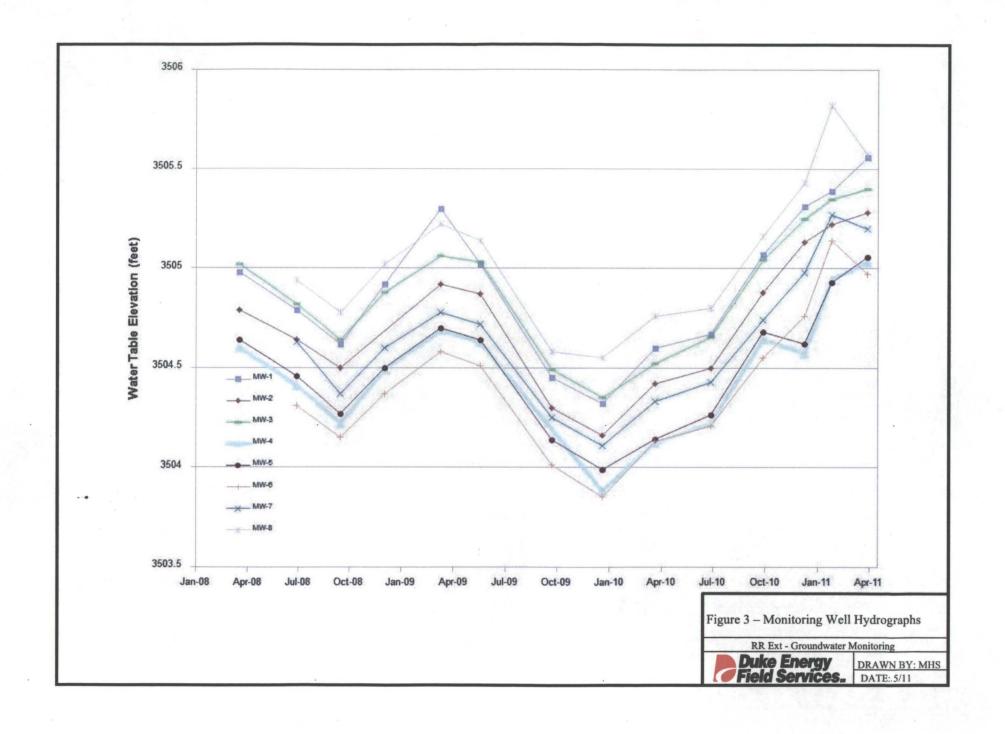
Well	6/10	9/10	12/10	3/11
MW-1	510	442	448	457
MW-2	233	263	278	320
MW-3	FPH	FPH	FPH	FPH
MW-4	FPH	FPH	FPH	FPH
MW-5	FPH	FPH	FPH	FPH
MW-6	402	337	359	386
MW-7	385	326	345	382
MW-8	553	486	533	529
MW-9	532*	FPH	FPH	FPH
MW-10	656*	FPH	FPH	FPH
MW-11	407	365	383	406
MW-12	514	464	501	498
MW-13				326
MW-14				520
MW-15				303
MW-16				295

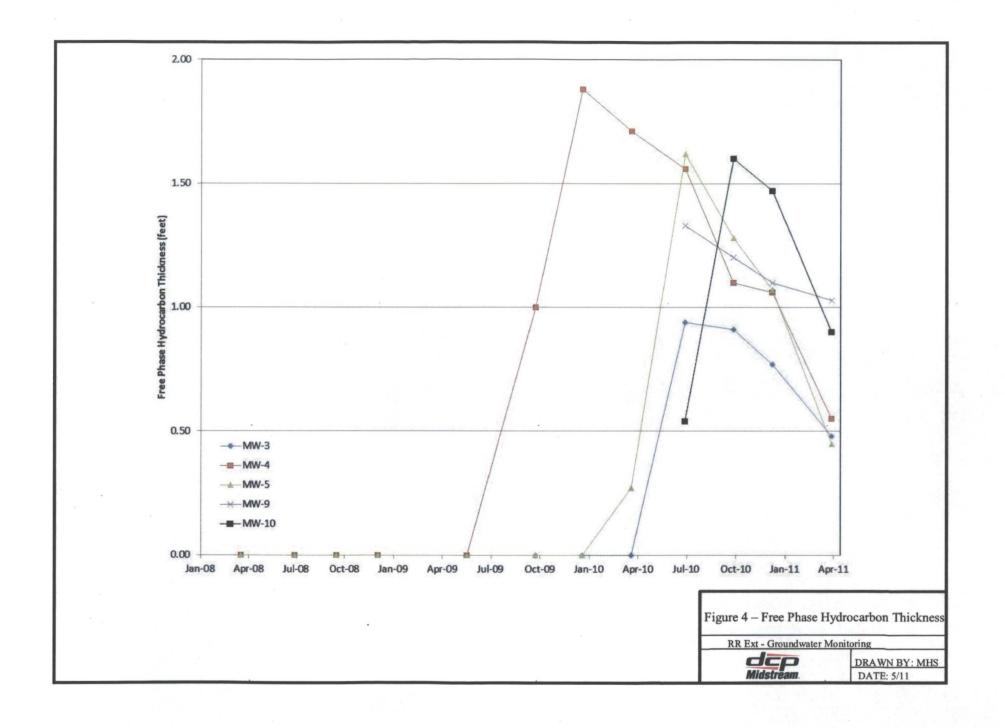
Units are mg/l
Duplicate values averaged together
FPH free phase hydrocarbons present
* Collected with FPH in the well but believed to be representative

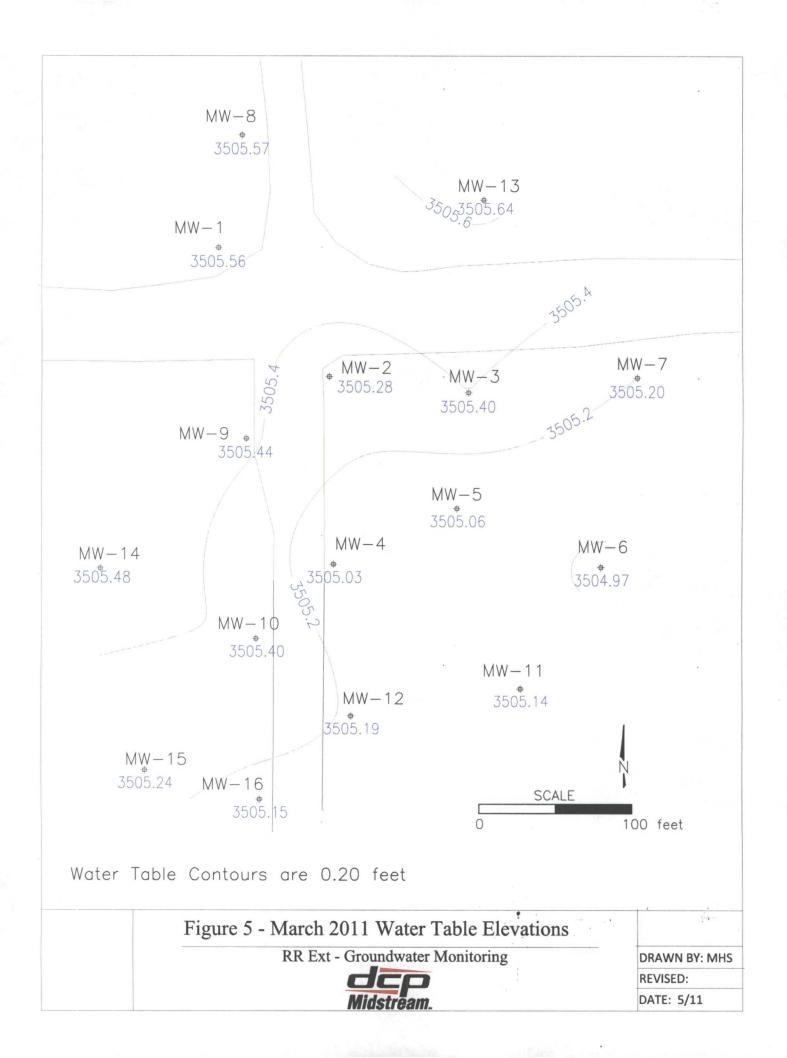


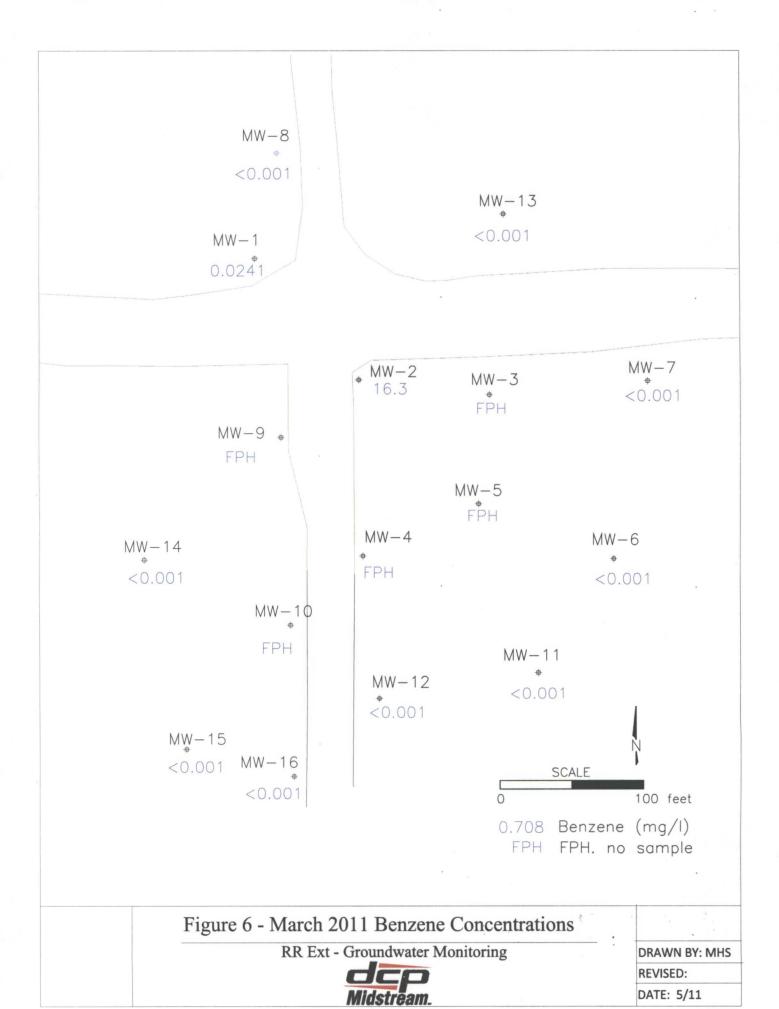


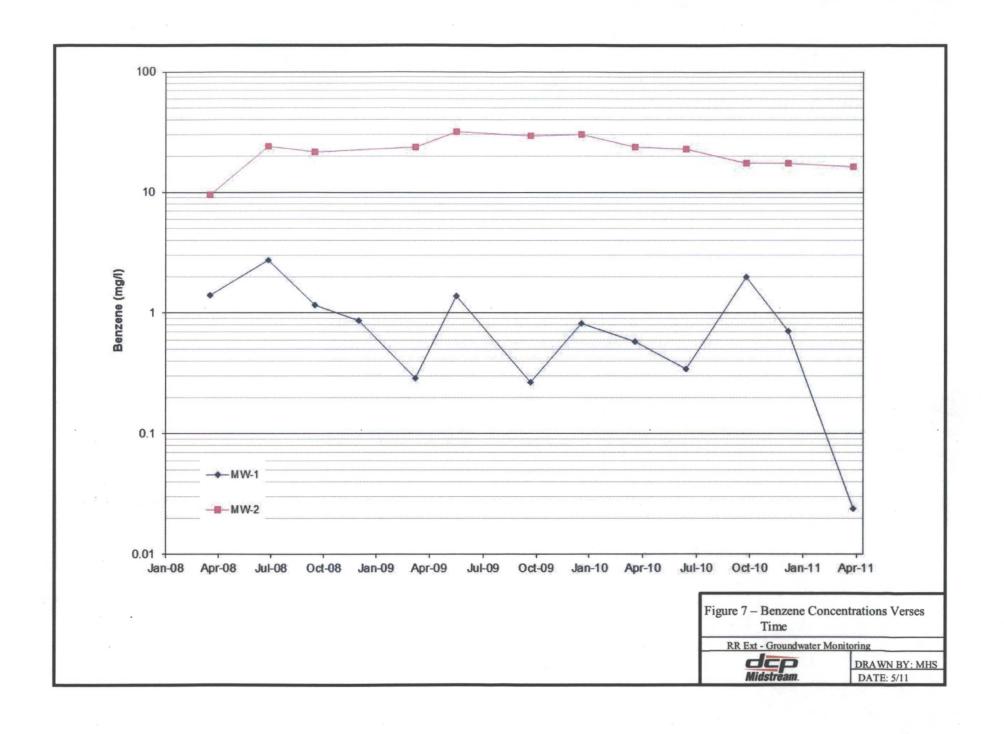


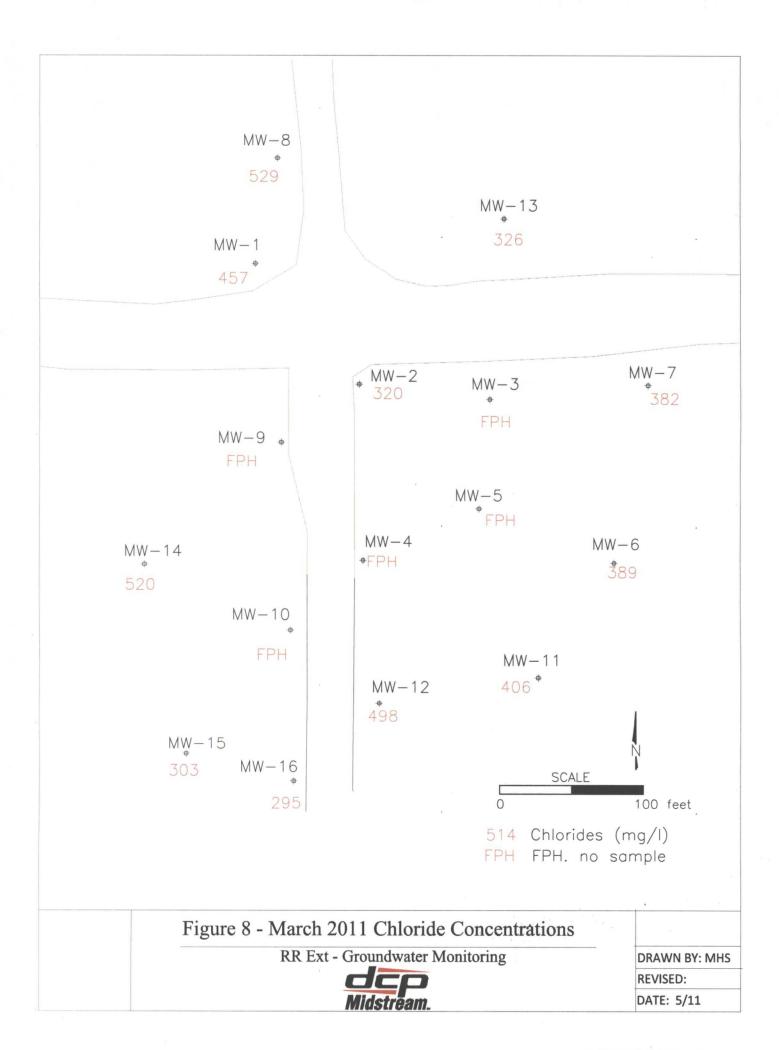












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	SUMMARY OF CORRECTE	D WATER TABLE ELEVA	ΓΙΟΝS
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DCP RREXT - SUMMARY OF CORRECTED WATER TABLE ELEVATIONS

Well	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
						_		
03/19/08	3504.98	3504.79	3505.02	3504.60	3504.64			
06/29/08	3504.79	3504.64	3504.82	3504.41	3504.46	3504.31	3504.63	3504.94
09/17/08	3504.62	3504.50	3504.64	3504.22	3504.27	3504.15	3504.37	3504.78
12/03/08	3504.92		3504.88	3504.49	3504.50	3504.37	3504.60	3505.02
03/11/09	3505.30	3504.92	3505.06	3504.69	3504.70	3504.58	3504.78	3505.22
05/19/09	3505.02	3504.87	3505.03	3504.63	3504.64	3504.51	3504.72	3505.14
09/23/09	3504.45	3504.30	3504.49		3504.14	3504.01	3504.25	3504.58
12/20/09	3504.32	3504.16	3504.35	3503.88	3503.99	3503.85	3504.11	3504.55
03/22/10	3504.60	3504.42	3504.52	3504.12	3504.14	3504.13	3504.33	3504.76
06/29/10	3504.67	3504.50	3504.66	3504.22	3504.27	3504.21	3504.43	3504.80
09/28/10	3505.07	3504.88	3505.04	3504.65	3504.68	3504.55	3504.74	3505.16
12/09/10	3505.31	3505.13	3505.25	3504.58	3504.62	3504.76	3504.98	3505.43
03/30/11	3505.39	3505.22	3505.35	3504.95	3504.93	3505.14	3505.27	3505.82

Well	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
						_		
03./30/11	3503.83	3505.12	3505.38	3506.84	3505.59	3505.35	3505.12	3504.07

Units are feet

Blank cells wells either not installed or not not measured.

SUMMARY C	OF GROUNDWAT	TER MONITORING DATA

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RR EXT BTEX GROUNDWATER MONITORING DATA SUMMARY

Well		Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards	\$2×52	.010	0.75	0.75	0.62
MW-I	3/08	1.4	0.948	0.0395	0.128
	6/08	2.75	2.17	0.054	0.232
	9/08	1.1	0.845	0.0375	0.131
Duplicate	9/08	1.22	0.883	0.0506	0.197
	12/08	0.869	0.581	0.0385	0.0709
	3/09	0.288	0.107	0.0149	0.0395
	5/09	1.38	0.175	0.0705	0.065
	9/09	0.267	0.0332	0.024	0.0078
	12/09	0.819	0.0267	0.088	0.012
	3/10	0.726	0.107	0.0879	0.0278J
Duplicate	3/10	0.431	0.714	0.64	0.201
	6/10	0.339	0.0329	0.0539	0.0079
Duplicate	6/10	0.353	0.0395	0.0632	0.0088
	9/10	1.99	0.084	0.0951	0.0219J
	12/10	0.708	0.0099J	0.0796	0.0047J
	3/11	0.0241	0.0136	< 0.01	0.0055 J
MW-2	3/08	8.98	6.58	0.135J	0.765
Duplicate	3/08	10	7	0.156J	0.93
	6/08	24.3	18.5	0.319	2.58
Duplicate	6/08	23.5	19.2	0.309	2.36
	9/08	21.7	9.79	0.443	4.25
	12/08		Not sampl	ed: Remediation a	ctivities
	3/09	23.7	2.34	0.583	1.25
Duplicate	3/09	4.07	1.91	0.268 J	0.49 J
	5/09	32.7	1.31	0.791	1.69
Duplicate	5/09	30.7	1.43	0.907	2.14
	9/09	29.3	0.771	0.491	0.371J
	12/09	28.5	0.347	0.57	0.177J
Duplicate	12/09	31.8	0.397J	0.829	0.193
	3/10	23.8	0.71	0.529	<1.2
	6/10	22.9	0.39J	0.485	0.128
	9/10	17	0.257J	0.329J	<0.8
	9/10	17.7	0.284J	0.353J	<0.8
	12/10	16.9	0.399	0.458	0.0926J
	12/10	17.5	0.556	0.452	0.127J
	3/11	16.6	0.403	0.165 J	0.116 J
Duplicate Notes: Units mg/l	3/11	16	0.363	< 0.2	< 0.2

Notes:

Units mg/l
NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards
J qualifiers indicate an estimated concentration between the method detection and method reporting limits.
Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

RR EXT BTEX GROUNDWATER MONITORING DATA SUMMARY (continued)

		'5- '2\ \			7.7				
Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes				
NMWQCC Standards	/= \	.010	0.75	0.75	0.62				
MW-3	3/08	0.759	0.849	0.0355	0.0786				
	6/08	6.18	9.46	0.287	1.23				
	9/08	2.45	3.62	0.145	1.14				
	12/08	0.761	0.938	0.0492	0.158				
	3/09	4.03	2.83	0.18 J	0.61				
	5/09	14.7	12.6	0.808	1.64				
	9/09	5.5	1.09	0.271	<0.006				
	12/09	13.1	9.08	1.2	2.87				
	3/10	8.43	9.14	1.01	2.71				
	6/10	Free Ph	ase Hydroca	arbons Since Secon	d Quarter 2010				
MW-4	3/08	0.0102	0.0093	<0.002	0.0023J				
	6/08	0.0439	0.0256	0.0068	0.0147				
	9/08	0.514	0.443	0.0203	0.125				
	12/08	1.32	1.35	. 0.0812	0.239J				
	3/09	3.61	3.4	0.164 J	0.831				
	5/09	4.7	2.94	0.428	1.03				
	Free Phase Hydrocarbons Since Third Quarter 2009								
			<i>y</i>						
MW-5	3/08	0.0019J	0.0012J	<0.002	< 0.006				
	6/08	0.0037	0.0037	<0.002	< 0.006				
	9/08	0.0038	0.0037	<0.002	< 0.006				
	12/08	0.0031	0.004	<0.002	< 0.006				
	3/09	0.0067	0.0074	< 0.002	<0.006				
	5/09	0.0064	0.0089	0.0025	0.0045 J				
,	9/09	0.0082	0.0132	0.00066J	< 0.006				
	12/09	0.0096	0.0155	0.0013J	0.0021J				
	F			ns Since First Quar	ter 2010				
					-				
MW-6	6/08	< 0.002	< 0.002	<0.002	. <0.006				
	9/08	<0.002	<0.002	. <0.002	< 0.006				
	12/08	<0.002	< 0.002	< 0.002	<0.006				
	3/09	< 0.002	<0.002	<0.002	. <0.006				
	5/09	<0.002	<0.002	<0.002	<0.006				
	9/09	<0.002	< 0.002	<0.002	<0.006				
}	12/09	<0.002	<0.002	<0.002	<0.006				
<u> </u>	3/10	<0.002	<0.002	<0.002	<0.006				
· · · · · · · · · · · · · · · · · · ·	6/10	< 0.001	<0.002	<0.002	<0.002				
	9/10	<0.001	<0.002	<0.002	<0.004				
	12/10	<0.001	<0.002	<0.002	<0.004				
	3/11	<0.001	< 0.002	<0.002	0.00084 J				

Notes: Units mg/l, J qualifiers indicate an estimated concentration between the method detection and method reporting limits.

NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards

Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

RR EXT BTEX GROUNDWATER MONITORING DATA SUMMARY (continued)

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards	7787	.010	0.75		0.62
3 December 1988 St. Tomas St. Talken	1,43,886,400,000	*30, ,010,0	37. 3880. 12 - 180	,,	
MW-7	6/08	< 0.002	<0.002	<0.002	< 0.006
	9/08	< 0.002	< 0.002	<0.002	< 0.006
-	12/08	< 0.002	< 0.002	<0.002	<0.006
	3/09	< 0.002	< 0.002	< 0.002	< 0.006
	5/09	< 0.002	< 0.002	<0.002	< 0.006
	9/09	< 0.002	< 0.002	< 0.002	< 0.006
	12/09	< 0.002	< 0.002	<0.002	< 0.006
	3/10	< 0.002	< 0.002	<0.002	< 0.006
	6/10	0.0005J	< 0.002	<0.002	< 0.006
	9/10	0.00042J	< 0.002	<0.002	< 0.004
	12/10	< 0.002	< 0.002	<0.002	<0.006
	3/11	< 0.001	< 0.002	<0.002	<0.002
MW-8	6/08	0.0384	0.0255	0.00049J	0.0016J
	9/08	0.0301	0.0161	<0.002	0.002 J
	12/08	0.0233	0.011	< 0.002	< 0.006
Dup	12/08	0.0122	0.006	<0.002	< 0.006
	3/09	0.0218	0.0066	< 0.002	< 0.006
	5/09	0.0098	0.0049	<0.002	< 0.006
	9/09	< 0.002	< 0.002	<0.002	< 0.006
Dup	9/09	<0.4	<0.4	<0.4	<1.2
	12/09	< 0.002	<0.002	< 0.002	< 0.006
	3/10	< 0.002	< 0.002	<0.002	< 0.006
	6/10	< 0.001	< 0.002	<0.002	<0.002
	9/10	< 0.001	<0.002	<0.002	< 0.004
	12/10	< 0.001	< 0.002	< 0.002	< 0.004
	3/11	< 0.001	< 0.002	< 0.002	< 0.002
MW-9	Fr	ee Phase H	ydrocarbon	s since June 2010 I	nstallation
MW-10	Fr	ee Phase H	ydrocarbon	s since June 2010 I	nstallation
		 	T .	ı	<u> </u>
MW-11	6/10	< 0.001	< 0.002	<0.002	< 0.004
	9/10	<0.001	<0.002	<0.002	<0.004
	12/10	<0.001	<0.002	<0.002	<0.004
	3/11	<0.001	<0.002	<0.002	< 0.002
MW-12	6/10	< 0.001	<0.002	<0.002	<0.004
	9/10	<0.001	<0.002	<0.002	<0.004
	12/10	<0.001	<0.002	<0.002	<0.004
	3/11	<0.001	<0.002	< 0.002	< 0.002

Notes: Units mg/l, J qualifiers indicate an estimated concentration between the method detection and method reporting limits.

NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards

Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards

RR EXT BTEX GROUNDWATER MONITORING DATA SUMMARY (continued)

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
2000 - 100 -		.010	0.75	0.75	0.62
MW-13	3/11	< 0.001	<0.002	< 0.002	< 0.002
MW-14	3/11	< 0.001	< 0.002	< 0.002	< 0.002
				<u> </u>	
MW-15	3/11	< 0.001	< 0.002	< 0.002	< 0.002
MW-16	3/11	< 0.001	< 0.002	< 0.002	< 0.002

Notes: Units mg/l, J qualifiers indicate an estimated concentration between the method detection and method reporting limits.

NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards

WELL SAMPLING DATA AND ANALYTICAL LABORATORY REPORT

	CLIENT:	DC	P Midstre	am		WELL ID:	MW-1				
s	ITE NAME:		RR-EXT			DATE:	3/30/2011				
PRO	DJECT NO.				. ;	SAMPLER:	M. Stewart				
PURGING	METHOD:		☑ Hand Bai	led []Pur		p If Pump, Type:					
SAMPLIN	G METHOD) :	☑ Dedicate	d Bailer	Direct fro	om Dischar	ge Hose)ther:				
DESCRIB	E EQUIPMI	ENT DECO	NTAMINATIO	ON METHO	D BEFOR	RE SAMPLI	NG THE WELL:				
☑ Glove:	s 🔲 Alcono	x	ed Water Ri	nse 🗀O	ther:	·					
HEIGHT (O WATER: OF WATER	/ELL: COLUMN: 2.0	39.56 29.01 10.55 Inch	Feet Feet Feet		5.3	Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)				
TIME	VOLUME PURGED	TEMP.	COND. mS/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS				
	1.6	18	1.58	7.17							
	3.2	18.2	1.56	7.20							
	4.8	18.3	1.56	7.30							
						-					
				:							
				-							
	-					<u> </u>					
	4.8	Volume: (ga									
	,	Collected S		MW-1		· · · · · · · · · · · · · · · · · · ·					
		BTEX (826)	U)								
COMM	MENTS:										

	CLIENT:	DC	P Midstre	am	_	WELL ID	:MW-2
s	ITE NAME:		RR-EXT		_	DATE	:3/30/2011
PRO	OJECT NO.			- Th	_	SAMPLER	: M. Stewart
	METHOD:			⊔ led _{┌┐} Pu	mp If Pun	np, Type:	
SAMPLIN	G METHOD			لسسا			rge Hose Other:
SCRIB	FQUIPM	ELT DECO	NTAMINATIO	ογ-γετης	D BEFOR	RE SAMPL	ING THE WELL:
Glove			ed Water Rii		ther:		
DEPTH TO	O WATER: OF WATER		39.91 29.90 10.01 Inch	Feet		5.0	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP.	COND. mS/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	2						
	3.4						
	5	17.5	7.30	1.15			
				,,			
	5.1	Volume: (g	allons)		,		-
SAMP	LE NO.:	Collected S		MW-2			
	YSES:	BTEX (826					
	MENTS:						
		Duplicate s	ample collec	ted	-		

	CLIENT:	DC	P Midstre	am	_	WELL ID	:MW-3
S	ITE NAME:				DATE	:3/30/2011	
PRO	DJECT NO.	——-[7]-		<u></u>	_	SAMPLER	:M. Stewart
	METHOD:			iled Pu	ımp If Pun	np, Type:	
SAMPLIN	G METHOD			d Bailer	Direct fro	om Discha	rge Hose Other:
[] SCRIB	E QUIPMI	E DECO	NTAMINATIO	ONTENCTION	OD BEFOR	RE SAMPL	ING THE WELL:
Glove	s Alcono	x Distill	ed Water Rii	nse (Other:		
DEPTH TO	O WATER: OF WATER AMETER:	COLUMN: 2.0		Feet		4.3	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP.	COND. mS/cm	ρН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
- -	, 5.,,525		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		l nigit	-	
						·	
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					-	<u>_</u>	
	 				1		
					'		
			_				
	<u> </u>				11		
		Volume: (ga					
	•		ample No.:	No sample	e because	of FPH	
	•	BTEX (8260	1)				
COMN	MENTS:						
				<u> </u>			

	CLIENT:	DC	P Midstrea	am	_	WELL ID	:MW-4
s	ITE NAME:	RR-EXT			_	DATE	:3/30/2011
PRO	DJECT NO.				_ :	SAMPLER	: M. Stewart
PURGING	METHOD:		Hand Bai	□ led ┌ Pu	mp If Pur	np, Type:	
SAMPLIN	G METHOD		Dedicated	d Bailer	Direct fro	om Discha	rge Hose Other:
<u></u> SCRIB	EQUIPME	E DECO	NTAMINATIO	ON∰NETHC	D BEFOR	RE SAMPL	ING THE WELL:
Glove	s Alcono	x Distill	ed Water Rii	nse C	Other:		
DEPTH TO	EPTH OF W O WATER: OF WATER AMETER:	COLUMN:	30.58 10.08	Feet		5.0	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
	VOLUME	TEMP.	COND.		T DO		PHYSICAL APPEARANCE AND
TIME	PURGED	°C	m S/cm	pН	mg\L	Turb	REMARKS
					ļ		
					<u> </u>		
				·			
					i		
	0.0	Volume: (ga	allons)				
SAMP	LE NO.:	Collected S	ample No.:	No sample	e because	of FPH	
ANAL	YSES:			·-			
COM	MENTS:						

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	CLIENT:		P Midstre	<u>am</u>	WELL ID:MIVV-5				
s	ITE NAME:		RR-EXT		_	DATE	3/30/2011		
PRO	DJECT NO.			·——	_ ;	SAMPLER:	M. Stewart		
PURGING	METHOD:	<u>.</u>	Hand Bai	⊔ led _{Pu}	mp If Pur	np, Type:			
SAMPLIN	G METHOD			d Bailer			rge Hose Other:		
SCRIB	E EQUIPMI	EL DECO	OTAMIMATION	ON-METHO	D BEFOR	RE SAMPL	ING THE WELL:		
Gloves	s Alcono	x Distill	ed Water Rii	nse C	ther:				
TOTAL DEPTH OF WELL: 42.15 Feet DEPTH TO WATER: 30.75 Feet HEIGHT OF WATER COLUMN: 11.40 Feet WELL DIAMETER: 2.0 Inch						5.7	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)		
TIME	VOLUME PURGED	TEMP.	COND. m S/cm	рΗ	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS		
-	TOROLD		<i>mor</i> cm		mgic		TREATH WAY		
						 			
			·						
[i							
				·					
		Volume: (ga							
	•		ample No.:	No sample	because	of FPH			
	•	BTEX (826)	0)						
COMN	MENTS:				·	•	 		

	CLIENT:	DC	P Midstrea	m	_	WELL ID:	:MW-6
s	ITE NAME:		RR-EXT		_	DATE	:3/30/2011
PRO	DJECT NO.		[-	_	SAMPLER:	: M. Stewart
	METHOD:			⊒ ed _□ Pu	mp If Pun	np, Type:	
SAMPLIN	G METHOD						rge Hose Other:
SCRIB	E QUIPMI	E DECO	OITAMINATIO	N∰NETHC	DD BEFOR	RE SAMPL	ING THE WELL:
Gloves	s Alcono	x Distill	ed Water Rin				
DEPTH TO	O WATER: OF WATER		39.68 31.19 8.49 Inch	eet		4.2	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.3	18.9	1.23	7.58			, , , , , , , , , , , , , , , , , , , ,
	2.6	18.8	1.22	7.57			
	3.9	18.7	1.23	7.57			
						-	
							
	<u> </u>						
			<u> </u>] :		
	3.9	Volume: (g					
	LE NO.:		Sample No.:	MW-6			<u> </u>
	YSES:	BTEX (826					
COM	MENTS:	Collected s	amples for M	S and MS	D analyse	S	

427 4 50 C

	CLIEN I:		Pivilastre	am	-	WELL ID):
s	ITE NAME:		RR-EXT		_	DATE	3/30/2011
PRO	DJECT NO.	————(7)-		<u></u>	_	SAMPLER	R: M. Stewart
PURGING	METHOD:		Hand Bai	□ led _□ Pu	mp If Pun	np, Type:	_
SAMPLIN	G METHOD						urge Hose Other:
SCRIB	[EQUIPMI	E DECO	NTAMINATIO	ONTANETHO	D BEFOR	RE SAMPL	ING THE WELL:
Gloves	s Alcono	x Distill	ed Water Rii	nse C	ther:		
DEPTH TO	METER:	COLUMN: 2.0	39.86 31.89 7.97 Inch	Feet	-	4.0	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED		COND. mS/cm	pН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.3	18.0	1.32	7.58			
	2.6	17.9	1.30	7.56			
740	3.9	17.9	1.29	7.58	-		
							
						<u>. </u>	
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			·,				
	<u></u>						
	3.9	Volume: (ga	allons)				
SAMPI	LE NO.:	Collected S	ample No.:	MW-7			
ANAL	YSES:	BTEX (826	0)				
COMM	ENTS:						
			*				<u> </u>

	CLIENT:	DC	P Midstre	am	_	WELL ID	:MW-8
s	ITE NAME:		RR-EXT		_	DATE	:3/30/2011
PRO	DJECT NO.				_ ;	SAMPLER	: M. Stewart
	METHOD:			□ led _□ Pu	mp If Pur	np, Type:	
SAMPLIN	G METHOD			لسسبة			rge Hose Other:
SCRIB	E QUIPMI	E DECOI	NTAMINATIO	ONT METHO	D BEFOR	RE SAMPL	ING THE WELL:
Gloves							
DEPTH TO	O WATER: OF WATER		40.26 30.84 9.42 Inch	Feet		4.7	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME		COND.	pН	DO	Turb	PHYSICAL APPEARANCE AND
	PURGED	°C	m S/cm	•	mg\L_		REMARKS
	2.0	17.5	1.63	7.44			
	4.0	17.6	1.62	7.48			
	6.0	17.7	1.61	7.48			
					<u> </u>		
	6.0	Volume: (ga	allons)				
SAMP	LE NO.:	Collected S	Sample No.:	MW-8			
ANAL	YSES:	BTEX (826	0)				
	MENTS:	· · · · · · · · · · · · · · · · · · ·					
			-				

	CLIENT:	DCP Midstream						
s	ITE NAME:		RR-EXT		_	DATE	3/30/2011	
PRO	DJECT NO.	——————————————————————————————————————	<u> </u>		_	SAMPLER	M. Stewart	
PURGING	METHOD:		Hand Bai	□ led ┌ Pu	mp If Pur	np, Type:		
SAMPLIN	G METHOD		Dedicate	d Bailer	Direct fro	om Dischai	rge Hose Other:	
SCRIB	EQUIPMI	E DECO	NTAMINATIO	ONT NETHO	D BEFOR	RE SAMPL	ING THE WELL:	
Glove	s Alcono	x Distill	ed Water Rii	nse C	other:			
TOTAL DEPTH OF WELL: DEPTH TO WATER: HEIGHT OF WATER COLUMN: WELL DIAMETER: 29.53 Feet 10.47 Feet WELL DIAMETER: 2.0 Inch				Feet		5.2	Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)	
TIME	VOLUME PURGED		COND. mS/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS	
	, onor		moron		Ingic			
					,			
				, , ,				
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	!							
	0.0	Volume: (ga	allons)				<u></u>	
SAMP	LE NO.:	Collected S	ample No.:	No sample	because	of FPH	·	
ANAL	YSES:	BTEX (826)	0)					
COMM	MENTS:	 	···					

	CLIENT:	DCP Midstream				WELL ID:		MW-10
s	ITE NAME:		RR-EXT			DATE:	*****	3/30/2011
PRO	DJECT NO.	<u> </u>				SAMPLER:		M. Stewart
PURGING	METHOD:	v	Hand Bai	led Pur	mp If Pur	mp, Type:		
SAMPLIN	G METHOD):	Dedicated	d Bailer 🗌	Direct fr	om Dischar	ge Hose	Other:
	/	ENT DECO	NTAMINATIO	ON METHO				
TOTAL DEPTH OF WELL: DEPTH TO WATER: HEIGHT OF WATER COLUMN: WELL DIAMETER: 2.0 Inch DEPTH TO WATER 29.49 Feet 10.51 Feet 5.3 Minimum Gallons to purge 3 well volumes (Water Column Height x								
TIME	VOLUME PURGED	TEMP.	COND. mS/cm	рН	DO mg\L	Turb	PHYSIC	CAL APPEARANCE AND REMARKS
		- 1						
								-
	0.0	Volume: (g	allons)					
SAMP	LE NO.:	Collected S	Sample No.:	No sample	because	of FPH		
ANAL	YSES:	BTEX (826	0)					
	MENTS:	,	•	•				
	_							

	CLIENT:	DCP Midstream			_	WELL ID	:MW-11
s	ITE NAME:		RR-EXT		_	DATE	:3/30/2011
PRO	DJECT NO.	——————————————————————————————————————			_ :		: M. Stewart
PURGING	METHOD:		Hand Bai	່ led ┌┐Pu	ımp If Pur	np, Type:	_
SAMPLIN	G METHOD						rge Hose Other:
SCRIB	EQUIPM	E[] DECO	NTAMINATIO	ON_NETHO	DD BEFOR	RE SAMPL	ING THE WELL:
Gloves	s Alcono	x Distili	ed Water Rii	nse C	Other:		
DEPTH TO	O WATER: OF WATER		40.00 31.05 8.95 Inch	Feet		4.5	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP.	COND. m S/cm	pН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.4	18.0	1.37	7.61			
	2.8	18.4	1.400	7.56			
	4.2	18.6	1.370	7.57	,		
						•	
	-						
,			,				
				- 11.000			
	, ,						
	4.2	Volume: (ga	allons)		<u> </u>		
SAMPI	LE NO.:	Collected S	ample No.:	MW-11			
ANAL	YSES:	BTEX (826	0)				
COMM	MENTS:						
	•						

	CLIENT:	DCP Midstream				WELL ID:	MW-12
s	ITE NAME:		RR-EXT			DATE:	3/30/2011
PRO	DJECT NO.			— —	. ;	SAMPLER:	M. Stewart
	METHOD:			□ led _□ Pui	mp If Pur	np, Type:	 □
SAMPLIN	G METHOD			d Bailer	Direct fro	om Dischar	ge Hose Other:
SCRIB	EQUIPMI	E[DECO	NTAMINATIO	ONT NETHO	D BEFOR	RE SAMPLI	NG THE WELL:
Gloves	s Alcono	x Distill	ed Water Rir	nse O	ther:		
HEIGHT (OF WATER	/ELL: COLUMN: 2.0	40.00 29.28 10.72 Inch	Feet Feet Feet		5.4	Minimum Gallons to purge 3 well volumes
	VOLUME	TEMP.	COND.		DO		(Water Column Height x 0.49) PHYSICAL APPEARANCE AND
TIME	PURGED	°c	m S/cm	рН	mg\L	Turb	REMARKS
	1.7	18.3	1.43	7.54			
	3.4	18.6	1.43	7.60			
	5.1	18.6	1.44	7.54		·	
-							
	5.1	Volume: (ga	allons)		•		
SAMP	LE NO.:	Collected S	ample No.:	MW-12			
ANAL	YSES:	BTEX (826	0)				
	MENTS:	*****					

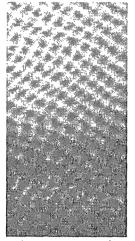
19

	CLIENT:	DCP Midstream		_	WELL ID:	:MW-13	
s	ITE NAME:		RR-EXT		_	DATE:	:3/30/2011
PRO	DJECT NO.				_ ;	SAMPLER:	:M. Stewart
PURGING	METHOD:		Hand Bai	니 led _디 Pu	mp If Pur	np, Type:	
SAMPLIN	G METHOD						rge Hose Other:
SCRIB	E QUIPMI	E[] DECOI	NTAMINATIO	OI_METHO	DD BEFO	RE SAMPL	ING THE WELL:
Glove	s Alcono	x Distille	ed Water Rir	nse C	ther:		
DEPTH TO HEIGHT (O WATER: OF WATER	COLUMN: 2.0	30.44 9.56	Feet		4.8	Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.6	16.3	1.28	7.61			
	3.2	16.8	1.25	7.59			
	4.8	17.4	1.25	7.56			
					,		
·							
L	4.8	Volume: (ga	allons)				
SAMPI	LE NO.:	Collected S	ample No.:	MW-13			
ANAL	YSES:	BTEX (826	0)		,		·
COMM	MENTS:						

	CLIENT: DCP Midstream		WELL ID: MW-14				
s	ITE NAME:		RR-EXT	<u> </u>	_	DATE:	: 3/30/2011
PRO	DJECT NO.			<i></i>		SAMPLER:	: M. Stewart
	METHOD:			L⊒ led ┌┐Pu	mp If Pur	mp, Type:	
SAMPLIN	G METHOD			لسسا			rge Hose Other:
SCRIB	[_EQUIPMI	E DECOI	NTAMINATI	OH_METHO	D BEFO	RE SAMPL	ING THE WELL:
Glove	s Alcono	x Distille	ed Water Rir	nse O	ther:		
DEPTH TO HEIGHT (O WATER: OF WATER		40.00 29.48 10.52 Inch	Feet		5.3	_Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	2.0	18.7	1.33	7.65			
	4.0	1839.0	1.33	7.62			
	6.0	19.0	1.33	7.59			
				-			
			 -				
	6.0	Volume: (g	allons)				
SAMP	LE NO.:	Collected S	ample No.:	MW-14			
ANAL	YSES:	BTEX (826	0)				
COM	MENTS:						

	CLIENT:	DCP Midstream			_	WELL ID:	<u> </u>
s	ITE NAME:		RR-EXT		•	DATE:	3/30/2011
PRO	DJECT NO.				_	SAMPLER:	M. Stewart
PURGING	METHOD:	***************************************			mp If Pur	np, Type:	
SAMPLIN	G METHO						ge Hose Other:
SCRIB	E QUIPMI	E[_] DECOI	NTAMINATI	OHTEMETHO	D BEFOR	RE SAMPL	ING THE WELL:
Gloves	s Alcono	x Distill	ed Water Rii	nse O	ther:		
TOTAL DEPTH OF WELL: 40.00 Feet DEPTH TO WATER: 29.66 Feet HEIGHT OF WATER COLUMN: 10.34 Feet WELL DIAMETER: 2.0 Inch						5.2	Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)
TIME	VOLUME PURGED		COND. mS/cm	рН	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.8	18.8	1.11	7.55			
	3.6	18.7	1.10	7.60			
	5.4	18.6	1.10	7.62			
				_			
-							
-				 			
				<u> </u>			
				<u></u>			
	<u> </u>				·		
	5.4	Volume: (ga	allons)		· · · · ·		
SAMPI	LE NO.:	Collected S	ample No.:	MW-15			
ANAL	YSES:	BTEX (826	0)			-	
COMM	MENTS:						
	•						

	CLIENT:	DCP Midstream			WELL ID:			
s	ITE NAME:		RR-EXT	-		DATE:	3/30/2011	
PRO	DJECT NO.	(7)-				SAMPLER:	M. Stewart	
PURGING	METHOD:				mp If Pur	mp, Type:		
SAMPLIN	G METHOD			· · · · · · · · · · · · · · · · · · ·		om Dischar	1d	
SCRIB	[_EQUIPMI	E DECOI	NTAMINATIO	OHTEMETHO	D BEFO	RE SAMPLI	NG THE WELL:	
Glove	s Alcono	x Distill	ed Water Rir	nse O	ther:			
DEPTH TO WATER: 28.53 Feet HEIGHT OF WATER COLUMN: 11.47 Feet WELL DIAMETER: 2.0 Inch						5.7	Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)	
TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	· pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS	
	2.0	18.4	1.11	7.74	_			
	4.0	18.7	1.11	7.65	,			
	6.0	18.8	1.11	7.65				
					,			
- <u></u>								
	6.0	Volume: (g	allons)					
SAMP	LE NO.:	Collected S	sample No.:	MW-16				
ANAL	YSES:	BTEX (826	0)	 				
COM	MENTS:							





Technical Report for

DCP Midstream, LP

AECCOL: DCP RR EXT

RC-GN00 Project-390761103

Accutest Job Number: D22252

Sampling Dates: 03/29/11 - 03/30/11

Report to:

American Environmental Consulting, LLC

mstewart@aecdenver.com

ATTN: Michael Stewart

Total number of pages in report: 43



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

John Hamilton Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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Sample Summary

DCP Midstream, LP

Job No:

D22252

AECCOL: DCP RR EXT Project No: RC-GN00 Project-390761103

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
D22252-1	03/30/11	08:05 MS	03/31/11	AQ	Ground Water	MW-1
D22252-2	03/30/11	08:30 MS	03/31/11	AQ	Ground Water	MW-2
D22252-3	03/29/11	17:40 MS	03/31/11	AQ	Ground Water	.MW-6
D22252-3D	03/29/11	17:40 MS	03/31/11	AQ	Water Dup/MSD	MW-6
D22252-3M	03/29/11	17:40 MS	03/31/11	AQ	Water Matrix Spike	MW-6
D22252-4	03/29/11	18:00 MS	03/31/11	AQ	Ground Water	MW-7
D22252-5	03/30/11	07:50 MS	03/31/11	AQ	Ground Water	MW-8
D22252-6	03/29/11	16:55 MS	03/31/11	AQ	Ground Water	MW-til
D22252-7	03/29/11	16:30 MS	03/31/11	AQ	Ground Water	MW-12
D22252-8	03/30/11	00:00 MS	03/31/11	AQ	Water Dup/MSD	DUP
D22252-9	03/30/11	00:00 MS	03/31/11	AQ	Trip Blank Water	TRIP BLANK
D22252-10	03/30/11	07:25 MS	03/31/11	AQ	Ground Water	MW-13
D22252-11	03/29/11	16:05 MS	03/31/11	AQ	Ground Water	MW-14



D22252

Job No:

Sample Summary (continued)

DCP Midstream, LP

AECCOL: DCP RR EXT

Project No: RC-GN00 Project-390761103

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
D22252-12	03/29/11	15:45 MS	03/31/11	AQ	Ground Water	MW-15.
D22252-13	03/29/11	17:15 MS	03/31/11	AQ	Ground Water	MW-16 7 # # # # # # # # # # # # # # # # # #





CASE NARRATIVE / CONFORMANCE SUMMARY

Client: DCP Midstream, LP Job No

D22252

Site:

AECCOL: DCP RR EXT

Report Dat

4/7/2011 3:50:16 PM

On 03/31/2011, 12 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 4.2 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D22252 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AO

Batch ID: V3V566

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D22252-3MS, D22252-3MSD were used as the QC samples indicated.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix AQ

Batch ID: GP4124

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D22225-8MS, D22225-8MSD were used as the QC samples for the Chloride analysis.

Matrix AQ

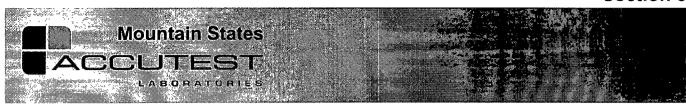
Batch ID: GP4132

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D22149-1MS, D22149-1MSD were used as the QC samples for the Chloride analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.





Samp	ole Resi	ults		
			•	
Repor	rt of An	alysis		

By

DC

Page 1 of 1

Client Sample ID: MW-1

Lab Sample ID:

D22252-1

Matrix: Method: AQ - Ground Water

DF

5

SW846 8260B

Date Sampled: 03/30/11

Date Received: 03/31/11

n/a

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

Prep Date Prep Batch **Analytical Batch**

n/a V3V566

Run #1 Run #2

Purge Volume

Compound

File ID

5.0 ml

3V10250.D

Run #1

Run #2

CAS No.

Purgeable Aromatics

Result RLMDL Units Q

71-43-2 Benzene 0.0241 0.0050 0.0015 mg/l 108-88-3 **Toluene** ND 0.010 0.0050mg/l 100-41-4 Ethylbenzene 0.0136 0.010 0.0015 mg/l 1330-20-7 Xylene (total) 0.0055 0.0100.0030 mg/l

Analyzed

04/07/11

CAS No. **Surrogate Recoveries** Run#1 Run# 2 Limits

17060-07-0 1,2-Dichloroethane-D4 83%

2037-26-5 Toluene-D8 4-Bromofluorobenzene 460-00-4

82%

63-130% 68-130%

61-130%

J

ND = Not detected

MDL - Method Detection Limit

RL = **Reporting Limit**

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MW-1

Lab Sample ID: Matrix:

D22252-1

AQ - Ground Water

Date Sampled: 03/30/11

By

Method

Date Received: 03/31/11

Percent Solids: n/a

Analyzed

Project:

AECCOL: DCP RR EXT

General Chemistry

Result RL**Analyte**

457 5.0 mg/l Chloride 10 04/01/11 14:07 CB EPA 300/SW846 9056

Units

DF

By

DC

Page 1 of 1

Client Sample ID: MW-2

Lab Sample ID:

D22252-2

Matrix:

AQ - Ground Water

DF

100

Date Sampled: 03/30/11 **Date Received:** 03/31/11

Q

J

J

Method:

SW846 8260B

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

Prep Date

n/a

Prep Batch Analytical Batch

n/a V3V566

Run #1 Run #2

Purge Volume

File ID

3V10251.D

Run #1

1 #1 5.0 ml

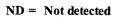
Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units
71-43-2	Benzene	16.6	~ 0.10	0.030	mg/l
108-88-3	Toluene	0.165	0.20	0.10	mg/l
100-41-4	Ethylbenzene	0.403	0.20	0.030	mg/l
1330-20-7	Xylene (total)	0.116	0.20	0.060	mg/l
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
17060-07-0	1,2-Dichloroethane-D4	88%		63-1	30%
2037-26-5	Toluene-D8	82%		68-1	30%
460-00-4	4-Bromofluorobenzene	77%		61-1	30%

Analyzed

04/07/11



MDL - Method Detection Limit

RL = Reporting Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



હક

E = Indicates value exceeds calibration range

Page 1 of 1

Client Sample ID: MW-2 Lab Sample ID:

D22252-2

Date Sampled: 03/30/11

Matrix:

AQ - Ground Water

Date Received: 03/31/11

Project:

AECCOL: DCP RR EXT

Percent Solids: n/a

General Chemistry

Analyte

Result

RL Units DF

Analyzed

By Method

Chloride

320 5.0

mg/l

10

04/01/11 14:20 CB

EPA 300/SW846 9056



By

DC

n/a

Page 1 of 1

Client Sample ID: MW-6

Lab Sample ID:

D22252-3

AQ - Ground Water

Date Sampled: Date Received:

03/29/11 03/31/11

Matrix: Method:

SW846 8260B

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

DF

1

Prep Batch **Analytical Batch Prep Date**

J

61-130%

V3V566 n/a

Run #1 Run #2

Purge Volume

4-Bromofluorobenzene

File ID

3V10247.D

Run #1 5.0 ml

Run #2

460-00-4

Purgeable Aromatics

CAS No. Compound Result RL**MDL** Units Q

Analyzed

04/07/11

71-43-2 Benzene ND ... 0.0010 0.00030 mg/l 108-88-3 Toluene ND 🔻 0.00200.0010 mg/l Ethylbenzene 100-41-4 ND -0.00200.00030 mg/l 1330-20-7 Xylene (total) 0.00084 0.0020 0.00060 mg/l

CAS No. **Surrogate Recoveries** Run#1 Run# 2 Limits

17060-07-0 1,2-Dichloroethane-D4 63-130% 2037-26-5 Toluene-D8 81% 68-130%

77%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Page 1 of 1

Client Sample ID: MW-6 Lab Sample ID:

D22252-3

Matrix:

AQ - Ground Water

Date Sampled: 03/29/11

Date Received: 03/31/11

Project:

AECCOL: DCP RR EXT

Percent Solids: n/a

General Chemistry

Analyte

Result

 \mathbf{RL}

Units

DF Analyzed By Method

Chloride

386 5.0

mg/l

10

04/01/11 14:32 CB

EPA 300/SW846 9056



By

DC

Client Sample ID: MW-7 Lab Sample ID: D22252-4

Matrix:

AQ - Ground Water SW846 8260B

1

Date Sampled: 03/29/11 Date Received: 03/31/11

Percent Solids: n/a

Method: Project:

AECCOL: DCP RR EXT

File ID DF Analyzed

Analytical Batch Prep Date Prep Batch V3V566 n/a n/a

Run #1

Run #2

Purge Volume

3V10252.D

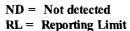
Run #1 5.0 ml

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00030	mg/l	
1330-20-7	Xylene (total)	ND	0.0020	0.00060	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	ts	
17060-07-0	1,2-Dichloroethane-D4	88%		63-130%		
2037-26-5	Toluene-D8	82%		68-130%		
460-00-4	4-Bromofluorobenzene	78%		61-130%		

04/07/11



MDL - Method Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MW-7

Lab Sample ID: Matrix:

D22252-4

AQ - Ground Water

Date Sampled: 03/29/11

Date Received: 03/31/11

Project:

AECCOL: DCP RR EXT

Percent Solids: n/a

General Chemistry

Analyte

Result

RL

Units

mg/l

DF

Analyzed

By Method

Chloride

382 5.0

10

04/01/11 13:29 СВ

EPA 300/SW846 9056

RL = Reporting Limit



Page 1 of 1

Client Sample ID: **MW-8**

Lab Sample ID: D22252-5

Matrix: Method: AQ - Ground Water

SW846 8260B

Project:

Date Sampled: 03/30/11

Date Received: 03/31/11

Percent Solids: n/a

AECCOL: DCP RR EXT

File ID Run #1

3V10253.D

DF 1

Analyzed 04/07/11

 $\mathbf{B}\mathbf{y}$ DC **Prep Date** n/a

Prep Batch

Analytical Batch

V3V566 n/a

Run #2

Purge Volume

Run #1 5.0 ml

Run #2

Purgeable Aromatics

CAS No. Compound

Benzene

71-43-2 108-88-3 Toluene

100-41-4 Ethylbenzene

1330-20-7 Xylene (total)

CAS No. **Surrogate Recoveries**

17060-07-0 1,2-Dichloroethane-D4

2037-26-5 Toluene-D8

460-00-4 4-Bromofluorobenzene Result

ND

ND

80%

RL

MDL

Units

Q

0.0010 0.00030 mg/l

0.0020 0.0010mg/l

0.00200.00030 mg/l 0.0020 0.00060 mg/l

Run#1 Run# 2 Limits

90% 63-130%

> 68-130% 61-130%

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

Page 1 of 1

Client Sample ID: MW-8 Lab Sample ID:

D22252-5

Date Sampled: 03/30/11

Matrix:

AQ - Ground Water

Date Received: 03/31/11

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

General Chemistry

Analyte Result RL

Units

mg/l

DF

Analyzed

Method

By

Chloride

529 5.0

10

04/01/11 13:42 CB

EPA 300/SW846 9056



Page 1 of 1

Client Sample ID: MW-11

Lab Sample ID: Matrix:

D22252-6

AQ - Ground Water

DF

1

SW846 8260B

Date Sampled: 03/29/11 Date Received: 03/31/11

Percent Solids: n/a

By

DC

Method: Project:

AECCOL: DCP RR EXT

Prep Date

n/a

Prep Batch

Analytical Batch

V3V566 n/a

Run #1 Run #2

Purge Volume

File ID

5.0 ml

3V10254.D

Run #1

Run #2

Purgeable Aromatics

CAS No. Compound

Result

ND

ND

Analyzed

04/07/11

RL

0.0010

0.0020

0.0020

0.0020

MDL

0.0010

Units

mg/l

Q

71-43-2 108-88-3 Benzene

Toluene

100-41-4 Ethylbenzene

1330-20-7

CAS No.

Xylene (total)

Run#1

Run# 2

Limits

0.00030 mg/l

0.00030 mg/l

0.00060 mg/l

17060-07-0

1,2-Dichloroethane-D4

Surrogate Recoveries

2037-26-5 Toluene-D8

460-00-4

4-Bromofluorobenzene

82%

63-130% 68-130%

61-130%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Page 1 of 1

Client Sample ID: MW-11

Lab Sample ID: Matrix:

D22252-6 AQ - Ground Water Date Sampled: 03/29/11

Date Received: 03/31/11

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

General Chemistry

Result

RL

Units

DF Analyzed By Method

Chloride

Analyte

406

5.0

mg/l

10

04/01/11 13:54 СВ

EPA 300/SW846 9056

Page 1 of 1

Client Sample ID: MW-12

Lab Sample ID:

D22252-7

Matrix:

AQ - Ground Water

Method:

SW846 8260B

DF

1

Date Received: 03/31/11

Date Sampled: 03/29/11

Percent Solids: n/a

By

DC

Project:

AECCOL: DCP RR EXT

Prep Date

n/a

Prep Batch

Analytical Batch V3V566

Run #1 Run #2

Purge Volume

File ID

5.0 ml

3V10255.D

Run #1

Run #2

71-43-2

Purgeable Aromatics

CAS No. Compound

Benzene

108-88-3 **Toluene** 100-41-4 Ethylbenzene

1330-20-7 Xylene (total)

CAS No. **Surrogate Recoveries**

17060-07-0 1,2-Dichloroethane-D4

2037-26-5 Toluene-D8

460-00-4 4-Bromofluorobenzene Result

ND.

ND

Analyzed

04/07/11

RL

MDL

Units

Q

n/a

0.00100.00030 mg/l

0.00200.0010mg/l 0.00200.00030 mg/l

0.00200.00060 mg/l

Run#1 Run# 2 Limits

90% 63-130% 81%

68-130% 61-130% 77%

ND = Not detected RL = Reporting Limit MDL - Method Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: MW-12

Lab Sample ID:

D22252-7

Date Sampled: 03/29/11

Matrix:

AQ - Ground Water

Date Received: 03/31/11 Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

General Chemistry

Analyte

Result

RL

Units

DF Analyzed

Method By

Chloride

mg/l

10

04/01/11 14:45 СВ

EPA 300/SW846 9056



Page 1 of 1

Report of Analysis

By

DC

Client Sample ID: DUP

Lab Sample ID: D22252-8

Matrix:

AQ - Water Dup/MSD

100

Method:

SW846 8260B

Date Sampled: 03/30/11

Date Received: 03/31/11

Percent Solids: n/a

Project: **AECCOL: DCP RR EXT**

File ID DF Analyzed

Prep Date n/a

Prep Batch

Analytical Batch

V3V566 n/a

Run #1 Run #2

Purge Volume

3V10256.D

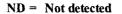
Run #1 5.0 ml

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	16.0 ND 0.363 ND	0.10 0.20 0.20 0.20 0.20	0.030 0.10 0.030 0.060	mg/l mg/l mg/l mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
17060-07-0 2037-26-5 460-00-4	1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	92% 82% 77%		68-1	30% 30% 30%	

04/07/11



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: DUP

Lab Sample ID:

D22252-8

Matrix:

AQ - Water Dup/MSD

Date Sampled: 03/30/11

Date Received: 03/31/11

Project:

AECCOL: DCP RR EXT

Percent Solids: n/a

General Chemistry

Analyte

Result

RL

Units

Analyzed

By

Method

Chloride

320 5.0

mg/l

10

DF

04/01/11 15:23 CB

EPA 300/SW846 9056



Page 1 of 1

Client Sample ID: TRIP BLANK Lab Sample ID: D22252-9

Lab Sample ID: Matrix:

AQ - Trip Blank Water

AQ - 1 np Blar SW846 8260B

Method: Project:

SW846 8260B

Date Sampled: 03/30/11

Date Received: 03/31/11

Percent Solids: n/a

AECCOL: DCP RR EXT

File ID Run #1 3V10259.D

DF 1 Analyzed 04/07/11 By DC Prep Date n/a

Prep Batch

Analytical Batch

n/a V3V566

Run #2

Purge Volume

Run #1 5.0 ml

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3	Benzene Toluene	ND ND	0.0010	0.00030 0.0010	mg/l mg/l	
100-41-4 1330-20-7	Ethylbenzene Xylene (total)	ND ND	0.0020 0.0020 0.0020	0.00030 0.00060	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
17060-07-0 2037-26-5 460-00-4	1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	86% 82% 77%		63-13 68-13 61-13	80%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



3.9

 $\mathbf{B}\mathbf{y}$

DC

Analyzed

04/07/11

Page 1 of 1

Client Sample ID: MW-13

Lab Sample ID: Matrix:

D22252-10

Method: Project:

File ID

3V10260.D

AQ - Ground Water SW846 8260B

AECCOL: DCP RR EXT

DF

Date Sampled: 03/30/11 Date Received: 03/31/11

Percent Solids: n/a

Prep Date

n/a

Analytical Batch Prep Batch V3V566

Run #1 Run #2

Purge Volume

Run #1 Run #2 5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND ND ND ND	0.0010 0.0020 0.0020 0.0020	0.00030 0.0010 0.00030 0.00060	mg/l mg/l mg/l mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
17060-07-0 2037-26-5 460-00-4	1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	87% 81% 78%		63-13 68-13 61-13	0%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Page 1 of 1

Client Sample ID: MW-13

Lab Sample ID: D22252-10

Matrix:

AQ - Ground Water

Date Sampled: 03/30/11

Date Received: 03/31/11

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Chloride 326 5.0 mg/l 10 04/01/11 15:35 CB EPA 300/SW846 9056

Page 1 of 1

Client Sample ID: MW-14

Lab Sample ID: D22252-11

Matrix:

Project:

AQ - Ground Water

Method:

Date Sampled: Date Received:

SW846 8260B

AECCOL: DCP RR EXT

03/31/11

Percent Solids: n/a

Run #1

File ID 3V10261.D DF 1

Analyzed 04/07/11

Prep Date n/a

Prep Batch

Q

03/29/11

Analytical Batch

V3V566 n/a

Run #2

Purge Volume

Run #1

5.0 ml

Run #2

Purgeable Aromatics

CAS No. Compound

Benzene

71-43-2 108-88-3 **Toluene**

100-41-4 Ethylbenzene

1330-20-7

Xylene (total)

CAS No.

Surrogate Recoveries

17060-07-0 2037-26-5

1.2-Dichloroethane-D4 Toluene-D8

460-00-4

4-Bromofluorobenzene

Result

ND

ND

RL

Run# 2

By

DC

MDL Units

ND

0.0010 0.00030 mg/l 0.0020 $0.0010 \, \text{mg/l}$

0.0020 0.00030 mg/l 0.0020 0.00060 mg/l

Run#1

Limits

88% 80%

76%

ND

63-130% 68-130% 61-130%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Page 1 of 1

Client Sample ID: MW-14

Lab Sample ID: Matrix: D22252-11 AQ - Ground Water Date Sampled: 03/29/11

Date Received: 03/31/11

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Chloride 520 5.0 mg/l 10 04/04/11 10:43 CB EPA 300/SW846 9056

Page 1 of 1

Client Sample ID: MW-15

Lab Sample ID: Matrix: D22252-12

AQ - Ground Water SW846 8260B Date Sampled: 0
Date Received: 0

03/29/11 03/31/11

Method: Project:

AECCOL: DCP RR EXT

DF

Percent Solids: n/a

 Analyzed

04/07/11

By DC Prep Date n/a Prep Batch

Analytical Batch

n/a V3V566

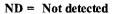
Run #2

Purge Volume

Run #1 Run #2 5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND ND ND ND	0.0010 0.0020 0.0020 0.0020	0.00030 0.0010 0.00030 0.00060	-	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	s	
17060-07-0 2037-26-5 460-00-4	1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	88% 82% 77%		63-13 68-13 61-13	0%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Report of Analysis

Page 1 of 1

Client Sample ID: MW-15

Lab Sample ID: D22252-12

Matrix:

AQ - Ground Water

Date Sampled: 03/29/11

Date Received: 03/31/11

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

General Chemistry

Analyte

Result

RL

Units

mg/l

DF

Analyzed

By Method

Chloride

303

5.0

10

04/04/11 10:56 СВ

EPA 300/SW846 9056

Report of Analysis

Client Sample ID: MW-16

Lab Sample ID:

D22252-13

Matrix:

AQ - Ground Water

Method:

SW846 8260B

Date Sampled: Date Received:

Prep Date

n/a

03/29/11 03/31/11

Prep Batch

n/a

Percent Solids: n/a

Project:

AECCOL: DCP RR EXT

DF

1

By DC

Analytical Batch V3V566

Run #1 Run #2

3V10263.D

Run #1

Purge Volume 5.0 ml

File ID

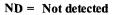
Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene		0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00030	mg/l	
1330-20-7	Xylene (total)	ND	0.0020	0.00060	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
17060-07-0	1,2-Dichloroethane-D4	89%		63-13	30%	
2037-26-5	Toluene-D8	79%		68-13	10%	
460-00-4	4-Bromofluorobenzene	76%		61-13	80%	

Analyzed

04/07/11



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Report of Analysis

Page 1 of 1

Client Sample ID: MW-16

Lab Sample ID: D222

D22252-13 AQ - Ground Water Date Sampled: 03/29/11

Date Received: 03/31/11

Percent Solids: n/a

Project:

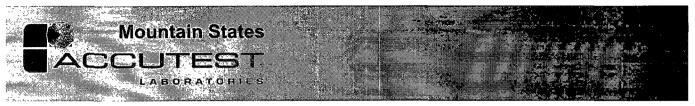
Matrix:

AECCOL: DCP RR EXT

General Chemistry

Analyte Result RL Units DF Analyzed By Method

Chloride 295 5.0 mg/l 10 04/04/11 11:09 CB EPA 300/SW846 9056



Misc. Forms			
Custody Documen	ts and Ot	her Forms	
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PAGE 1 OF 2

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CILILARY	•	

CHAIN	OF	CUSTOD

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Hillian	Client / Reporting Information	nososabileros Pagesta		Project					科學	fallery (R. K	Name:	5 W.	Req	ueste	Anah	/sis / se	TEST	ODE	sheet)	25000	Matrix Codes
Compa	ny Name	Project Name.	DCP RR EXT															T	Т			
Am	erican Environmental Consulting	ĺ																	1	1		DW - Drinking Water GW - Ground Water
Street /	Address	Street			maria. K	દ્યાસ, ઉત્તાન	appendig pa	dialus a	Selection of	danibitati de	al spile	graph.	1	1	(ĺ	1		- 1	WW - Water SW - Surface Water
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	leton CO 80128 Contact		 		Street A	Midstr	eam .						}	1	١		-	1	1	1	i	O1 - Oil
1		Project #				Box 487	0								Ĕ		1	1	}			LIQ - Other Liquid AIR - Air
Phone	hael Stewart mstewart@aecdenver.	Client Purchase	Project - 390761 Order#	103	City								ł		V8260BTX				1		- 1	SOL - Other Solid WP - Wipe
303	-805-1718				Port	land O	R 97208	-4870							82			- 1				F8-Field Blank E8-Equipment Blank
	r(s) Name(s)	Project Manager			Attention								×		for							RB- Rinse Blank
					Steve	Weathe	s SWWez	theres	depn	idstream	com		18	ļ			- 1	- 1	1	1 1		TB-Trip Blank
1				Collection	-	-	i	H	Numbe	r of preserve	d Bottles		8		S S			- 1				
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	MW-7		3027	1800	Ш_	GW	4	3		1	П		х	х								04
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D22252: Chain of Custody

Page 1 of 3

CHAIN OF CUSTODY

FEO-EX Tracking #

PAGE Z OF Z

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1 1001	eton CO 80128	1 '			DCP	Midstre	am						1			}			Ι.)			- 1	SED-Sediment OI - Oil
Project		Project #			Street A	ddresa		-					\dashv			×								- 1	LIQ - Other Liquid
Mic	hael Stewart mstewart@aecdenver	com DC GMOD	Project - 39076	14403	POE	30x 487	0						- 1			V8260BTX						li		- 1	AIR - AIr
Phone #		Client Purchas		11103	City								\neg			8					1			١	SOL - Other Solid WP - Wipe
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D22252: Chain of Custody Page 2 of 3







Accutest Laboratories Sample Receipt Summary

Accutest Job Number:	D2225	2	Clic	ent: A	MERICAN EN	IV. C	CONSI	JLTIN	NG .,	Immediate Client Servi	lces Actio	n Red	quired:	No
Date / Time Received:	3/31/2	011 12:	10:00 PM	1	No. Coole	rs:		1	٠.	Client Service Action	on Require	d at	Login:	No
Project: DCP RR EXT									Airbill #'s:	HD				
Cooler Security	Υ .	or N			Y	01	<u> N</u>	1	Sample Integrity	- Documentation	, <u>Y</u>	or	N	
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Cooler Temperature		Y or	<u> N</u>								V			
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Quality Control Preser	<u>rvation</u>	Y	or N	N/A	<u>\</u>									
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D22252: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- · Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D22252

Account:

DCPMCODN DCP Midstream, LP

Project:

AECCOL: DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V566-MB1	3V10245.D	1	04/06/11	DC	n/a	n/a	V3V566

The QC reported here applies to the following samples:

Method: SW846 8260B

D22252-1, D22252-2, D22252-3, D22252-4, D22252-5, D22252-6, D22252-7, D22252-8, D22252-9, D22252-10, D22252-11, D22252-12, D22252-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.30	ug/l	
108-88-3	Toluene '	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.60	ug/l	
CAS No.	Surrogate Recoveries		Limi	ts		
17060-07-0	1,2-Dichloroethane-D4	85%	63-13	30%		
2037-26-5	Toluene-D8	82%	68-13	30%		
460-00-4	4-Bromofluorobenzene	76%	61-13	30%		



Method: SW846 8260B

Blank Spike Summary

Job Number: D22252

Account:

DCPMCODN DCP Midstream, LP

Project:

AECCOL: DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V566-BS1	3V10246.D	1	04/06/11	DC	n/a	n/a	V3V566
;							

The QC reported here applies to the following samples:

D22252-1, D22252-2, D22252-3, D22252-4, D22252-5, D22252-6, D22252-7, D22252-8, D22252-9, D22252-10, D22252-11, D22252-12, D22252-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylene (total)	50 50 50 100	49.9 51.2 49.7 91.2	100 102 99 91	70-130 70-130 70-140 55-134
CAS No.	Surrogate Recoveries	BSP	Li	mits	
17060-07-0 2037-26-5 460-00-4	1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	83% 82% 78%	68	-130% -130% -130%	

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D22252

Account:

DCPMCODN DCP Midstream, LP

Project:

AECCOL: DCP RR EXT

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
D22252-3MS	3V10248.D	1	04/07/11	DC	n/a	n/a	V3V566
D22252-3MSD	3V10249.D	1	04/07/11	DC	n/a	n/a	V3V566
D22252-3	3V10247.D	1	04/07/11	DC	n/a	n/a	V3V566

The QC reported here applies to the following samples:

Method: SW846 8260B

D22252-1, D22252-2, D22252-3, D22252-4, D22252-5, D22252-6, D22252-7, D22252-8, D22252-9, D22252-10, D22252-11, D22252-12, D22252-13

CAS No.	Compound	D22252-3 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylene (total)	ND ND ND 0.84 J	50 50 50 100	52.3 53.0 50.8 94.7	105 106 102 94	53.3 54.2 52.0 97.4	107 108 104 97	2 2 2 3	59-132/30 68-130/30 56-142/30 36-146/30
CAS No.	Surrogate Recoveries	MS	MSD	D2	2252-3	Limits			
17060-07-0 2037-26-5 460-00-4	1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	84% 83% 80%	84% 82% 79%	899 81 77		63-130 68-130 61-130	%		



General Chemistry

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QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY . GENERAL CHEMISTRY

Login Number: D22252 Account: DCPMCODN - DCP Midstream, LP Project: AECCOL: DCP RR EXT

Analyte	Batch ID	RL	MB Result Units	Spike Amount	BSP Result	BSP QC %Recov Limits
Chloride	GP4124/GN8945	0.50	0.0 mg/l	20	18.5	92.5 90-110
Chloride	GP4132/GN8963	0.50	0.0 mg/l	20	18.6	93.0 90-110
Fluoride	GP4132/GN8963	0.20	0.0 mg/l	10	9.59	95.9 90-110
Sulfate	GP4124/GN8945	0.50	0.0 mg/l	30	29.2	97.3 90-110

Batch GP4124: D22252-1, D22252-10, D22252-2, D22252-3, D22252-4, D22252-5, D22252-6, D22252-7, D22252-8
Batch GP4132: D22252-11, D22252-12, D22252-13

(*) Outside of QC limits



MATRIX SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D22252
Account: DCPMCODN - DCP Midstream, LP Project: AECCOL: DCP RR EXT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP4124/GN8945	D22225-8	mg/l	107	50	162	110.0	80-120%
Chloride	GP4132/GN8963	D22149-1	mg/l	1.8	10	11.9	101.0	80-120%
Fluoride	GP4132/GN8963	D22149-1	mg/1	0.36	2.5	2.7	93.6	80-120%
Sulfate	GP4124/GN8945	D22225-8	mg/l	109	50	164	110.0	80-120%

Associated Samples: Batch GP4124: D22252-1, D22252-10, D22252-2, D22252-3, D22252-4, D22252-5, D22252-6, D22252-7, D22252-8

Batch GP4132: D22252-11, D22252-12, D22252-13

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D22252 Account: DCPMCODN - DCP Midstream, LP Project: AECCOL: DCP RR EXT .

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP4124/GN8945	D22225-8	mq/l	107	50	163	0.6	20%
Chloride	GP4132/GN8963	D22149-1	mg/l	1.8	10	11.8	0.8	ີ້ 20%
Fluoride	GP4132/GN8963	D22149-1	mg/l	0.36	2.5	2.7	0.0	20%
Sulfate	GP4124/GN8945	D22225-8	mg/1	109	50	164	0.0	∕ 20%

Associated Samples:

Associated Samples:
Batch GP4124: D22252-1, D22252-10, D22252-2, D22252-3, D22252-4, D22252-5, D22252-6, D22252-7, D22252-8
Batch GP4132: D22252-11, D22252-12, D22252-13
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

BORING LOGS FOR MW-9 TO MV	W-16

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AMERICAN ENVIRONMENTAL CONSULTING, LLC LOG OF BORING NUMBER: MW-9 **AEC** SHEET NUMBER: 1 of 1 6885 S. MARSHALL ST., SUITE 3 **LITTLETON, COLORADO 80128** LOCATION DIAGRAM Phone: 303-948-7733 Fax: 303-948-7739 CLIENT:DCP Midstream DRILLING METHOD: HSA PROJECT NAME: RREXT PROJECT NUMBER. BOREHOLE SIZE. 7 inch. PROJECT LOCATION: SAMPLING METHODS: SPT BORING LOCATION. MW-11 GRD.SURFACE ELEV: TOP OF CSG ELEV: START DATE: 6/16/10 FINISH DATE: 6/16/10 SURVEYED or ESTIMATED (circle one) START TIME: 0945 FINISH TIME:~1300 SOIL DESCRIPTION AND DRILLING CONDITIONS 0-5: Light brown to white, very-fine silty SAND (SM), dry 5-15. Light brown fine SAND, slightly moist 10 Slightly more fines Minor pebbles present Hydrocarbon odor slight increasing mild by 20' 20 Grades to moist with slight to moderate hydrocarbon odor Moderate to strong hydrocarbon odor 30 Total Depth is 38 feet below ground surface 40 Screen 18-38, Sand 16-38, Bentonite Chips to ~1 foot, surface protector w/2'x2' apron COMPLETED BY-ART CHECKED BY: MHS WATER LEVELS: DATE TIME DEPTH TO WATER · DATUM DRILLING CONTRACTOR. Atkins Engineering NOTES:

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LOG OF BORING NUMBER: MW-10 AMERICAN ENVIRONMENTAL CONSULTING, LLC SHEET NUMBER: 1 of 6885 S. MARSHALL ST., SUITE 3 **LITTLETON, COLORADO 80128** LOCATION DIAGRAM Phone: 303-948-7733 Fax: 303-948-7739 CLIENT:DCP Midstream DRILLING METHOD: HSA PROJECT NAME. RREXT PROJECT NUMBER: BOREHOLE SIZE: 7 inch. PROJECT LOCATION: SAMPLING METHODS, SPT BORING LOCATION: MW-11 GRD.SURFACE ELEV. TOP OF CSG ELEV: FINISH DATE, 6/16/10 SURVEYED or ESTIMATED (circle one) START DATE: 6/16/10 START TIME: 0730 FINISH TIME:0930 SOIL DESCRIPTION AND DRILLING CONDITIONS 0-5: White very-fine silty SAND (SM), dry 5-15: Light brown fine SAND, slightly moist 10 15-: Brown fine SAND, slightly moist 20 Hydrocarbon odor slight increasing mild by 20' Mıld hydrocarbon odor below 25 feet 30 Total Depth is 38 feet below ground surface 40 Screen 18-38, Sand 16-38, Bentonite Chips to ~1 foot, surface protector w/2'x2' apron COMPLETED BY-CHECKED BY: MHS WATER LEVELS: ART DATE TIME **DEPTH TO WATER** DATUM DRILLING CONTRACTOR: Atkins Engineering NOTES:

AMERICAN ENVIRONMENTAL CONSULTING, LLC LOG OF BORING NUMBER: MW-11 **AEC** SHEET NUMBER: 1 of 1 6885 S. MARSHALL ST., SUITE 3 **LITTLETON, COLORADO 80128** LOCATION DIAGRAM Phone: 303-948-7733 Fax: 303-948-7739 CLIENT:DCP Midstream DRILLING METHOD. HSA PROJECT NAME: RREXT PROJECT NUMBER: BOREHOLE SIZE: 7 inch. PROJECT LOCATION: SAMPLING METHODS: SPT **BORING LOCATION: MW-11** GRD SURFACE ELEV: TOP OF CSG ELEV: SURVEYED or ESTIMATED (circle one) START DATE: 6/15/10 FINISH DATE 6/15/10 START TIME: 945 FINISH TIME-1100 SOIL DESCRIPTION AND DRILLING CONDITIONS 0-2: Brown fine SAND (SP), slightly moist, 5-30: White very-fine SAND (SP) dry 10 White grading to Light brown 15-20 feet 20 Grading to moist by 20 feet. Very moist (wet) by 32 feet 30 Total Depth is 38 feet below ground surface 40 Screen 18-38, Sand 16-38, Bentonite Chips to ~1 foot, surface protector w/2'x2' apron COMPLETED BY: CHECKED BY: MHS DEPTH TO WATER DATUM ART WATER LEVELS: DATE TIME DRILLING CONTRACTOR: Atkins Engineering

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LOG OF BORING NUMBER: MW-12 AMERICAN ENVIRONMENTAL CONSULTING, LLC SHEET NUMBER: 1 of 6885 S. MARSHALL ST., SUITE 3 **LITTLETON, COLORADO 80128** LOCATION DIAGRAM Phone: 303-948-7733 Fax: 303-948-7739 CLIENT:DCP Midstream DRILLING METHOD: HSA PROJECT NAME: RREXT BOREHOLE SIZE: 7 inch. PROJECT NUMBER: PROJECT LOCATION: SAMPLING METHODS: SPT BORING LOCATION: MW-11 GRD.SURFACE ELEV: TOP OF CSG ELEV-START DATE: 6/15/10 FINISH DATE: 6/15/10 SURVEYED or ESTIMATED (circle one) START TIME: 1445 FINISH TIME:1645 SOIL DESCRIPTION AND DRILLING CONDITIONS 0-5: Light brown (white) very-fine silty SAND (SM), dry 5-30 Light brown fine SAND, dry grading to slightly moist 10 Dry Slightly moist 20 Moist Saturated, mild hydrocarbon odor. 30 Total Depth is 38 feet below ground surface 40 Screen 18-38, Sand 16-38, Bentonite Chips to ~1 foot, surface protector w/2'x2' apron COMPLETED BY CHECKED BY: MHS WATER LEVELS: TIME ART DATE DEPTH TO WATER **DATUM** DRILLING CONTRACTOR. Atkins Engineering NOTES:

AMERICAN ENVIRONMENTAL CONSULTING, LLC LOG OF BORING NUMBER: MW-13 **AEC** 6885 S. MARSHALL ST., SUITE 3 SHEET NUMBER: of LITTLETON, COLORADO 80128 LOCATION DIAGRAM Phone: 303-948-7733 Fax: 303-948-7739 CLIENT.DCP Midstream DRILLING METHOD. SSA PROJECT NAME: RREXT PROJECT NUMBER BOREHOLE SIZE: 7 inch. PROJECT LOCATION. SAMPLING METHODS: SPT **BORING LOCATION: MW-13** GRD.SURFACE ELEV: TOP OF CSG ELEV: START DATE: 1/26/11 FINISH DATE 1/26/11 SURVEYED or ESTIMATED (circle one) START TIME: 1000 FINISH TIME:1200 SOIL DESCRIPTION AND DRILLING CONDITIONS 0-5 Loose, medium reddish brown, very fine to medium, silty SAND (SP), slightly moist, Alluvial Deposit. 5-27 Loose to dense (mainly compact), pale yellowish gray, very fine to fine, SAND (SW), moist, ALLUVIAL Deposit 27-40 Dense, reddish medium brown, very fine to fine, some clay, clayey SAND (SW), moist to wet, Alluvial deposit. COMPLETED BY: CHECKED BY: WATER LEVELS. TIME DEPTH TO WATER DATUM DATE DRILLING CONTRACTOR

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LOG OF BORING NUMBER: MW-14 AMERICAN ENVIRONMENTAL CONSULTING, LLC **AEC** SHEET NUMBER 6885 S. MARSHALL ST., SUITE 3 **LITTLETON, COLORADO 80128** LOCATION DIAGRAM Phone: 303-948-7733 Fax: 303-948-7739 CLIENT:DCP Midstream DRILLING METHOD: SSA PROJECT NAME, RREXT PROJECT NUMBER: BOREHOLE SIZE: 7 inch PROJECT LOCATION SAMPLING METHODS: SPT **BORING LOCATION: MW-14** GRD.SURFACE ELEV: TOP OF CSG ELEV: START DATE 1/26/11 FINISH DATE:1/26/11 SURVEYED or ESTIMATED (circle one) START TIME 840 FINISH TIME:940 SOIL DESCRIPTION AND DRILLING CONDITIONS 0-6 5 Loose, medium reddish brown, very fine to medium, silty SAND (SP), slightly moist, Alluvial Deposit 6.5-28 Loose to dense (mainly compact), pale yellowish gray, very fine to fine, SAND (SW), moist, ALLUVIAL Deposit 28-41 Dense, reddish medium brown, very fine to fine, some clay, clayey SAND (SW) , moist to wet, Alluvial deposit mixed with weathered caliche. COMPLETED BY: CHECKED BY: WATER LEVELS: TIME DATE DEPTH TO WATER DATUM DRILLING CONTRACTOR. NOTES

AEC AMERICAN ENVIRONM 6885 S. MARSH LITTLETON, C	IALL ST., SUI	TE 3	LOG OF BORING NUMBER: MW-15 SHEET NUMBER: of		
LITTLETON, O Phone: 303-948-77			LOCATION DIAGRAM		
CLIENT:DCP Midstream		METHOD: SSA			
PROJECT NAME: RREXT					
PROJECT NUMBER	BOREHOLE	SIZE: 7 inch,	·		
PROJECT LOCATION:	SAMPLING	METHODS: SPT			
BORING LOCATION: MW-15		MILITIOUS. SI I			
	GRD SURFA				
START DATE: 1/25/11 FINISH DATE: 1/25/11	TOP OF CSC	GELEV: or ESTIMATED (circle one)			
START TIME:930 FINISH TIME.1310		of Estimates (chee one)			
		SOIL DESCRI	IPTION AND DRILLING CONDITIONS		
		0-7 5 Loose, medium reddish b moist, Alluvial Deposit.	brown, very fine to medium, silty SAND (SP), slightly		
		7.5-25 Loose to dense (mainly SAND (SW), moist, ALLUVIA	compact), pale yellowish gray, very fine to medium, AL Deposit		
			h gray, very fine to medium, clayey SAND (SW), moist		
	H		ish gray, sand to clay size grains homogeneous, weak		
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COMPLETED BY. CHECKED BY. DRILLING CONTRACTOR.		WATER LEVELS. DATE	TIME DEPTH TO WATER DATUM		
NOTES.					

AMERICAN ENVIRONMENTAL CONSULTING, LLC LOG OF BORING NUMBER: MW-16 6885 S. MARSHALL ST., SUITE 3 SHEET NUMBER: of **LITTLETON, COLORADO 80128** LOCATION DIAGRAM Phone: 303-948-7733 Fax: 303-948-7739 CLIENT:DCP Midstream DRILLING METHOD: SSA PROJECT NAME RREXT BOREHOLE SIZE: 7 inch. PROJECT NUMBER PROJECT LOCATION: SAMPLING METHODS: SPT **BORING LOCATION: MW-16** GRD.SURFACE ELEV: TOP OF CSG ELEV: FINISH DATE.1/26/11 SURVEYED or ESTIMATED (circle one) START DATE: 1/26/11 START TIME: 1400 FINISH TIME:1550 SOIL DESCRIPTION AND DRILLING CONDITIONS 0-5 Loose, medium reddish brown, very fine to medium, silty SAND (SP), slightly moist, Alluvial Deposit. 5-27 Loose to dense (mainly compact), pale yellowish gray, very fine to fine, little weathered caliche, SAND (SW), moist, ALLUVIAL Deposit 27-42 Dense, reddish medium brown, very fine to fine, some clay, clayey SAND (SW), moist to wet, Alluvial deposit. COMPLETED BY: CHECKED BY: WATER LEVELS: DATE TIME DEPTH TO WATER DATUM DRILLING CONTRACTOR. NOTES: