

**1RP-400**

**MONITORING REPORT**

**DATE:**

**2009, 2<sup>nd</sup> Qtr GW**



RECEIVED

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

2009 SEP 30 AM 11 41

September 28, 2009

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

**RE: 2nd Quarter 2009 Groundwater Monitoring Results  
DCP X-Line Pipeline Release (1RP-400-0)  
Unit B, Section 7, T15S, R34E (Lat 33° 02' 11", Long 103° 32' 48")**

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 2nd Quarter 2009 Groundwater Monitoring Results for the DCP X-Line Pipeline Release located within the Etcheverry Ranch, Lea County, New Mexico.

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

Sincerely

**DCP Midstream, LP**

A handwritten signature in black ink, appearing to read "Stephen Weathers".

Stephen Weathers, PG  
Principal Environmental Specialist

cc: Mrs. Etcheverry, Landowner - Certified Mail 91 7108 2133 3932 9035 1482  
Larry Johnson, OCD Hobbs District Office (Copy on CD)  
Environmental Files

September 14, 2009

Mr. Stephen Weathers  
DCP Midstream, LP  
370 Seventeenth Street, Suite 2500  
Denver, Colorado 80202

Re: Second Quarter 2009 Groundwater Monitoring Summary  
X-Line Pipeline Release, Etcheverry Ranch, Lea County, New Mexico  
**Unit B, Section 7, Township 15 South, Range 34 East (1RP-400-0)**

Dear Mr. Weathers:

This letter summarizes the replacement of monitoring well MW-8 and the results of the second quarter 2009 groundwater monitoring activities completed May 27, 2009 for DCP Midstream, LP (DCP) at the X-Line Pipeline Release on the Etcheverry Ranch at 33.0364o north, 103.5467 o west (Figure 1).

#### **MW-8 REPLACEMENT**

Well MW-8 was replaced on May 27, 2009. The original well was installed in June 2002 using an auger rig in the base of the excavation prior to backfilling. The original well had a natural-material pack in the annular space adjacent to the slotted casing so communication with the native materials was believed to be impaired.

The new well was installed by Eades Drilling using rotary drilling with potable Hobbs municipal water as the drilling fluid. The old well was completely overdrilled so the new well is in the same location. No boring log was generated because the overdrilling situation resulted in limited cuttings.

Two-inch diameter, Schedule 40 PVC casing was placed in the boring but it could only be inserted to a depth of 84 feet below ground surface (bgs) because of caving. Factory slotted (0.02 inch) casing was inserted from 84 to 49 feet bgs. Artificially-graded (12-20) sand was placed from 84 feet to 45 feet bgs. The remaining annular space was filled with hydrated bentonite pellets. Both the soil vapor extraction (SVE) system and the iSOC® (short for in-situ Submerged Oxygen Curtain) systems were reinstalled and reactivated.

#### **GROUNDWATER MONITORING**

The eight monitoring well locations are shown on Figure 2. Wells MW-1 through MW-7 were sampled on May 27, 2009. Well MW-8 was sampled in August 2009 to allow the remediation system to equilibrate. The well construction information in Table 1 was updated to reflect the replacement well,. The depths to water were measured in each well prior to purging. This data was used to calculate well casing-volume storage. The wells were then purged and sampled using dedicated bailers. Well purging consisted of

removing a minimum of three casing volumes of water and, as necessary, continuing bailing until the field parameters temperature, pH and conductivity stabilized. The field sampling forms are attached.

Unfiltered samples were collected from each well upon stabilization. Each sample was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX). A field duplicate was collected from well MW-3. A matrix spike/matrix spike duplicate was analyzed from MW-7. The samples were placed in an ice-filled chest immediately upon collection and delivery was documented using standard chain-of-custody protocol. The samples were delivered via Federal Express to AccuTest Laboratories in Houston, Texas. All affected purge water was stored on site for ultimate disposal.

The groundwater elevation measurements for all sampling episodes are summarized in Table 2. Well MW-8 is not included because its casing elevation has not been established. Hydrographs for wells MW-1 through MW-7 are shown on Figure 3. Figure 3 shows that the water-table elevations increased uniformly across the site. The water-table elevations remain at the upper end of the fluctuation range measured over the duration of this project.

A water-table contour map based upon the second quarter 2009 measurements was generated using the Surfer program with a kriging option (Figure 4). The water-table configuration reflects the historical conditions of general eastward flow.

The FPH thicknesses measured during the entire monitoring program is summarized in Table 3. No FPH was measured in MW-8 in August 2009 but the sampler reported a "heavy sheen" on the water.

Table 4 summarizes the second quarter 2009 sampling results. A copy of the laboratory report is attached. Examination of Table 4 indicates that:

1. Benzene was below the method reporting limit in wells MW-1 through MW-7;
2. Toluene, ethylbenzene and xylenes were also below the method reporting limits in MW-1 and in MW-3 through MW-7;
3. MW-2 contained concentrations of toluene, ethylbenzene and xylenes at concentrations that were below the respective New Mexico Water Quality Control Commission (NMWQCC) groundwater standards; and
4. The MW-8 benzene (0.719 mg/l), toluene (2.00 mg/l) and xylenes (4.76 mg/l) concentrations exceeded the NMWQCC groundwater standards.

The Quality Assurance data for the sampling event was reviewed. Important quality assurance/quality control evaluations include:

1. The BTEX constituents were not detected in either the primary or the duplicate sample so no relative percentage difference evaluation could be completed;
2. The matrix spike and the matrix spike duplicate results for MW-7 were all within their acceptable ranges;

3. The samples were all analyzed within the 14 day holding time;
4. None of the surrogate spikes that were outside their control ranges were for constituents from samples with detectable concentrations;
5. The laboratory blanks and blank spikes were within acceptable ranges; and
6. The trip blank did not contain any BTEX.

The second quarter 2009 benzene distribution is shown on Figure 5. Combining the groundwater flow path shown in Figure 4 with this data establishes that the BTEX constituents in MW-8 and the toluene, ethylbenzene and xylenes in MW-2 attenuate to below their respective method reporting limits before migrating down gradient to MW-7.

The BTEX concentrations in MW-8 are graphed over time in Figure 6. The benzene and toluene concentrations increased substantially. This increase may have resulted from improved communication between the groundwater and the bore of the new well.

All of the historical data for benzene, toluene, ethylbenzene and total xylenes are summarized in Tables 5, 6, 7, and 8 respectively. There have been no exceedances of the NMWQCC Groundwater Standards since October 2004 for MW-2 and March 2005 for MW-3. There have never been any exceedances in MW-1, MW-4, MW-5, MW-6 and MW-7.

The iSOC® device was reinstalled in the new MW-8, and it continues to operate. The system is checked periodically to ensure that it is intact and still functioning. The oxygen bottle is changed out as necessary. The SVE system was restarted in the new well, but it will be stopped approximately 1-week prior to the next sampling event so that the FPH thickness can be accurately assessed.

The next monitoring episode is scheduled for the third quarter of 2009. Do not hesitate to contact me if you have any questions or comments on this report.

Respectfully submitted,  
**AMERICAN ENVIRONMENTAL CONSULTING, LLC**

*Michael H. Stewart*

Michael H. Stewart, P.E.  
Principal Engineer

MHS:tbm

## TABLES

Table 1 – Monitoring Well Completions

Well	Date Installed	Well Depth	Completion Interval	Top of Sand
MW-1	3/02	91	71-91	68
MW-2	3/02	88	68-88	62
MW-3	3/02	91	71-91	61
MW-4	4/02	91	71-91	68
MW-5	4/02	89	69-89	56
MW-6	4/02	90	70-90	68
MW-7	5/02	85	65-85	59
MW-8	5/09	84	49-84	45

Notes: Units are Feet

Well MW-8 replaces the old MW-8 at the same location

Table 2 – Measured Water Table Elevations

Well	5/1/02	9/6/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/09/04	3/3/05
MW-1	4088.54	4088.53	4088.55	4088.52	4088.54	4088.53	4088.60	4088.59	4089.19	4089.12	4089.22	4089.18	4089.34	
MW-2	4089.02	4089.03	4089.05	4089.07	4089.04	4089.09	4089.06	4089.11	4089.13	4088.90	4089.03	4089.06	4089.03	4089.68
MW-3	4088.83	4088.86	4088.86	4088.85	4088.82	4088.87	4088.84	4088.90	4088.95	4088.82	4088.81	4088.84	4088.82	4089.24
MW-4	4088.63	4088.73	4088.73	4088.73	4088.70	4088.72	4088.71	4088.78	4088.78	4088.74	4088.70	4088.73	4088.71	4088.79
MW-5	4088.60	4088.68	4088.68	4088.67	4088.65	4088.63	4088.66	4088.65	4088.70	4088.65	4088.60	4088.63	4088.62	4088.73
MW-6	4088.69	4088.71	4088.70	4088.69	4088.66	4088.70	4088.68	4088.74	4088.74	4088.69	4088.66	4088.71	4088.68	4088.83
MW-7				4088.04	4088.01	4088.04	4088.03	4088.08	4088.08	4087.66	4087.63	4087.68	4087.65	4087.78

Well	6/3/05	9/28/05	12/12/05	3/1/06	6/26/06	9/28/06	12/21/06	3/13/07	6/26/07	9/5/07	12/27/07	3/20/08	6/27/08	9/15/08
MW-1	4089.26	4089.25	4089.23	4089.22	4089.16	4089.24	4089.20	4089.24	4089.26	4089.27	4089.37	4089.36	4089.28	
MW-2	4089.10	4089.10	4089.07	4089.08	4089.05	4089.00	4089.09	4089.05	4089.08	4089.10	4089.11	4089.22	4089.21	4089.14
MW-3	4088.91	4088.89	4088.88	4088.88	4088.85	4088.84	4088.88	4088.85	4088.87	4088.89	4088.86	4089.01	4089.00	4088.92
MW-4	4088.79	4088.77	4088.76	4088.75	4088.73	4088.73	4088.76	4088.72	4088.75	4088.77	4088.75	4088.88	4088.84	4088.82
MW-5	4088.68	4088.67	4088.66	4088.66	4088.63	4088.62	4088.66	4088.62	4088.66	4088.68	4088.66	4088.76	4088.72	
MW-6	4088.75	4088.74	4088.73	4088.72	4088.70	4088.66	4088.73	4088.70	4088.73	4088.74	4088.71	4088.84	4088.89	4088.77
MW-7	4087.71	4087.70	4087.70	4087.67	4087.62	4087.69	4087.66	4087.71	4087.71	4087.70	4087.79	4087.81	4087.75	

Well	12/1/08	3/11/09	5/27/09
MW-1	4089.37	4089.27	4,089.35
MW-2	4089.19	4089.13	4,089.24
MW-3	4088.99	4088.92	4,089.07
MW-4	4088.84	4088.79	4,088.91
MW-5	4088.77	4088.69	4,088.80
MW-6	4088.84	4088.77	4,088.87
MW-7	4087.82	4087.76	4,087.80

Notes:

Units are feet  
Blank cells: Wells not installed

Table 3 – Summary of Product Thickness in MW-8

Measurement Date	Product Thickness (feet)
09/06/02	5.20
04/28/03	5.65
06/19/03	4.01
07/17/03	3.93
09/22/03	3.42
10/29/03	1.42
11/20/03	0.79
06/25/04	0.03
10/18/04	3.26
12/09/04	2.71
03/03/05	0.00
06/03/05	0.12
09/28/05	1.01
12/12/05	0.00
03/01/06	0.04
06/26/06	0.03
09/28/06	0.00
12/21/06	0.28
03/13/07	0.01
06/26/07	1.22
09/05/07	0.40
12/27/07	0.03
03/20/08	0.00
06/27/08	0.00
09/15/08	0.00
12/01/08	0.33
03/11/09	0.00
08/07/09	0.00

Units are feet

Table 4 – Second Quarter 2009 Groundwater Monitoring Results

Well	Benzene	Toluene	Ethlbenzene	Xylene (total)
NMWQCC Standards	0.01	0.75	0.75	0.62
MW-1	<0.002	<0.002	<0.002	<0.006
MW-2	<0.002	0.010	0.01	0.16
MW-3	<0.002	<0.002	<0.002	<0.006
MW-3 DUP	<0.002	<0.002	<0.002	<0.006
MW-4	<0.002	<0.002	<0.002	<0.006
MW-5	<0.002	<0.002	<0.002	<0.006
MW-6	<0.002	<0.002	<0.002	<0.006
MW-7	<0.002	<0.002	<0.002	<0.006
<b>MW-8<sup>1</sup></b>	<b>0.719</b>	<b>2.00</b>	0.233	<b>4.72</b>
<b>TRIP BLANK</b>	<0.002	<0.002	<0.002	<0.006

Notes: Units are mg/l

NMWQCC Standards: New Mexico Water Quality Control Commission  
Groundwater Standards

1) MW-8 sampled August 7, 2009

Table 5 – Summary of Laboratory Data for Benzene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05
MW-1	<0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.0255	0.145	0.182	0.074	0.155	0.024	0.022	0.001	0.013	<0.001	0.00156	0.0103	0.00342	<0.001	<0.001	<0.001	<0.001
MW-3	0.061	0.176	0.099	0.047	0.063	0.017	0.049	0.044	0.048	0.0280	0.0173	.00584	0.006137	0.00167	0.00332	<0.001	<0.001
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	<0.002	0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	0.561

Well	3/1/06	6/26/06	9/28/06	12/21/06	3/13/07	6/26/07	9/5/07	12/27/07	3/20/08	6/27/08	9/15/08	12/1/08	3/11/09	5/27/09			
MW-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	0.00093	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-2	<0.001	0.0006	0.0007	<0.001	0.000674	<0.001	<0.002	0.00057	<0.002	0.00096	0.00096	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	0.00053	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	0.00074	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	FPH	FPH	0.24	FPH	0.42	FPH	FPH	FPH	0.28	0.18	0.14	FPH	0.219	0.719			

Notes:

Units are mg/l.

Duplicate sample results were averaged together

Indicators for estimated (I) values not shown

FPH: Free phase hydrocarbons present, no sample collected

Table 6 – Summary of Laboratory Data for Toluene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05	
MW-1	<0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW-2	0.107	0.833	0.092	0.066	0.15	0.092	0.051	0.004	0.017	0.00652	0.00108	0.00648	0.00206	<0.001	<0.001	<0.001	<0.001	
MW-3	<0.002	0.004	0.005	<0.001	0.002	<0.001	<0.001	<0.001	0.003	<0.001	0.000158	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000482	<0.001
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW-5	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW-6	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	
																	2.98	

Well	3/1/06	6/26/06	9/28/06	12/21/06	3/13/07	6/26/07	9/5/07	12/27/07	3/20/08	6/27/08	9/15/08	12/1/08	3/11/09	5/27/09			
MW-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-2	<0.001	0.001140	0.00137	<0.001	0.005120	0.0102	0.0075	0.0039	0.03	0.0073	0.03	0.0135	0.0048	0.010			
MW-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	0.00098	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00131	<0.002	0.00098	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	FPH	FPH	0.791	FPH	0.977	FPH	FPH	0.35	0.388	0.25	FPH	0.257	2.00				

Notes: Units are mg/l.

Duplicate sample results were averaged together

Indicators for estimated (I) values not shown

FPH: Free phase hydrocarbons present, no sample collected

Table 7 – Summary of Laboratory Data for Ethylbenzene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05
MW-1	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.013	0.062	0.121	0.069	0.112	0.012	0.012	0.002	0.005	0.00301	0.0005	0.00336	0.00122	<0.001	<0.001	<0.001	<0.001
MW-3	0.023	0.03	0.02	0.023	0.006	0.02	0.018	0.018	0.017	0.0138	0.0136	0.00692	0.00884	0.00167	0.00574	0.00101	<0.001
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	0.004	0.002	0.002	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	0.928

Well	3/1/06	6/26/06	9/28/06	12/21/06	3/13/07	6/26/07	9/5/07	12/27/07	3/20/08	6/27/08	9/15/08	12/1/08	3/11/09	5/27/09		
MW-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-2	<0.001	<0.001	0.0003	<0.001	0.00120	0.00024	<0.002	0.00076J	0.01	0.0229	0.02	0.0147	0.0123	0.01		
MW-3	<0.001	<0.001	<0.001	<0.001	<0.00111	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	<0.001	<0.001	0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	FPH	FPH	0.239	FPH	0.437	FPH	FPH	FPH	0.15	0.0971	0.17	FPH	0.133	0.233		

Notes: Units are mg/l.

Duplicate sample results were averaged together

Indicators for estimated (1) values not shown

FPH: Free phase hydrocarbons present, no sample collected

Table 8 – Summary of Laboratory Data for Xylenes

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05
MW-1	<0.006	<0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0514	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.38	1.27	0.133	0.103	0.186	0.179	0.079	0.017	0.034	0.00067	0.00106	0.0052	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	0.189	0.451	0.039	0.006	0.007	0.001	0.001	0.004	<0.001	0.000118	0.0015	<0.001	0.00044	0.00173	0.000997	<0.001	<0.001
MW-4	<0.006	<0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	0.011	<0.006	0.003	0.003	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	0.123	0.047	0.01	<0.001	0.004	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	9.89	

Well	3/1/06	6/26/06	9/28/06	12/21/06	3/13/07	6/26/07	9/5/07	12/27/07	3/20/08	6/27/08	9/15/08	12/1/08	3/11/09	5/27/09
MW-1	<0.001	<0.001	<0.001	<0.001	<0.002	<0.004	0.0028	<0.006	<0.002	<0.006	<0.006	<0.006	<0.006	<0.006
MW-2	<0.001	0.00125	0.0014	<0.001	0.00770	0.013	0.00778	0.0051	0.06	0.0229	0.12	0.143	0.12	0.16
MW-3	<0.001	<0.001	<0.001	<0.001	<0.002	<0.004	<0.006	<0.006	<0.002	<0.006	<0.006	<0.006	<0.006	<0.006
MW-4	<0.001	<0.001	<0.001	<0.001	<0.002	<0.004	0.0016	<0.006	<0.002	<0.006	<0.006	<0.006	<0.006	<0.006
MW-5	<0.001	<0.001	<0.001	<0.001	<0.002	<0.004	<0.006	<0.006	<0.002	<0.006	<0.006	<0.006	<0.006	<0.006
MW-6	<0.001	<0.001	<0.001	<0.001	<0.002	<0.004	<0.006	<0.006	<0.002	<0.006	<0.006	<0.006	<0.006	<0.006
MW-7	<0.001	<0.001	<0.001	<0.001	<0.002	<0.004	<0.006	<0.006	<0.002	<0.006	<0.006	<0.006	<0.006	<0.006
MW-8	FPH	2.27	FPH	3.35	FPH	FPH	2.80	0.388	2.42	FPH	3.76	4.72		

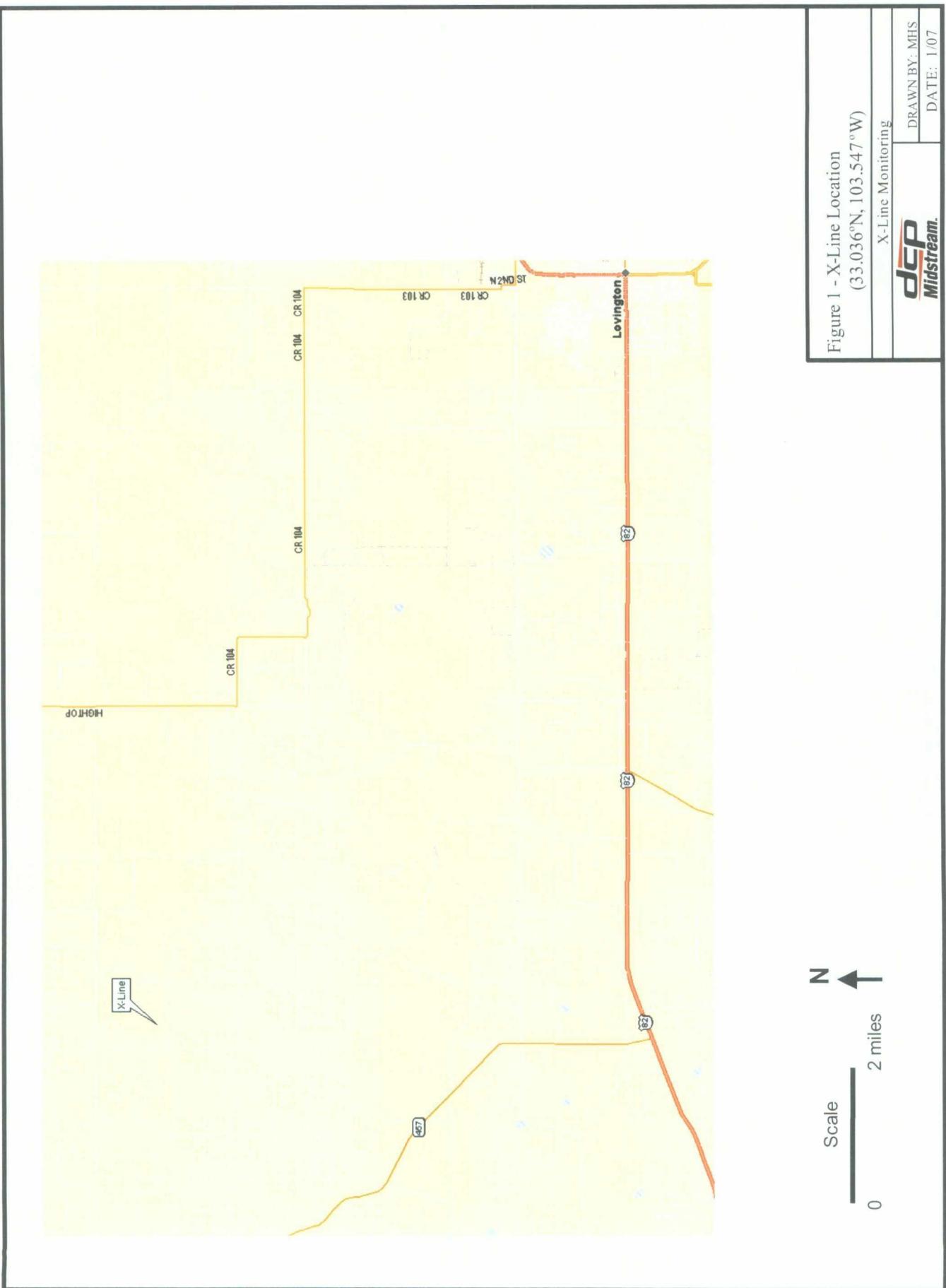
Notes: Units are mg/l.

Duplicate sample results were averaged together

Indicators for estimated (I) values not shown

FPH: Free phase hydrocarbons present, no sample collected

## FIGURES



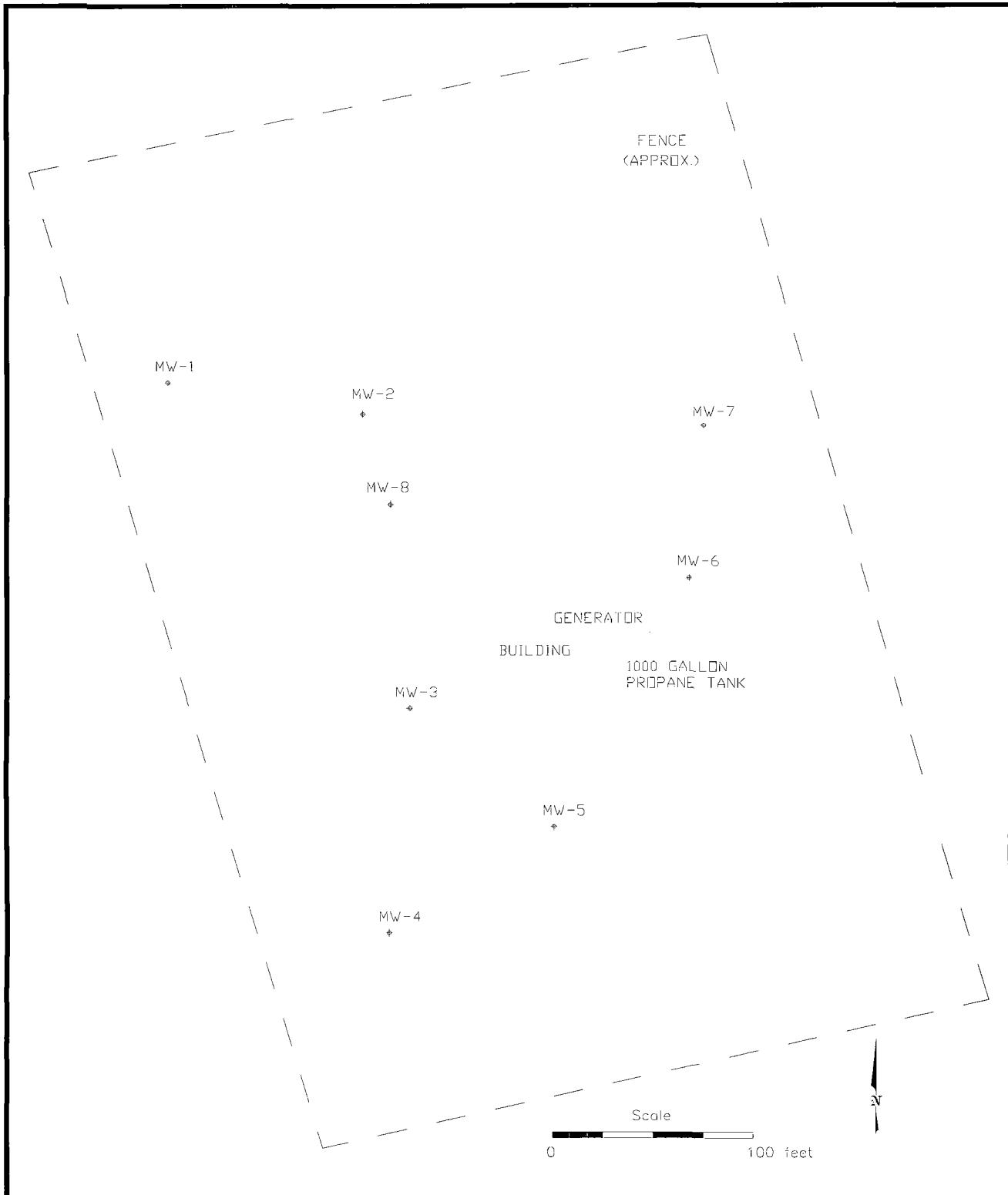


Figure 2 – Facility Configuration  
X-Line Monitoring

**dcp**  
**Midstream.**

DRAWN BY: MHS  
REVISED:  
DATE: 9/07

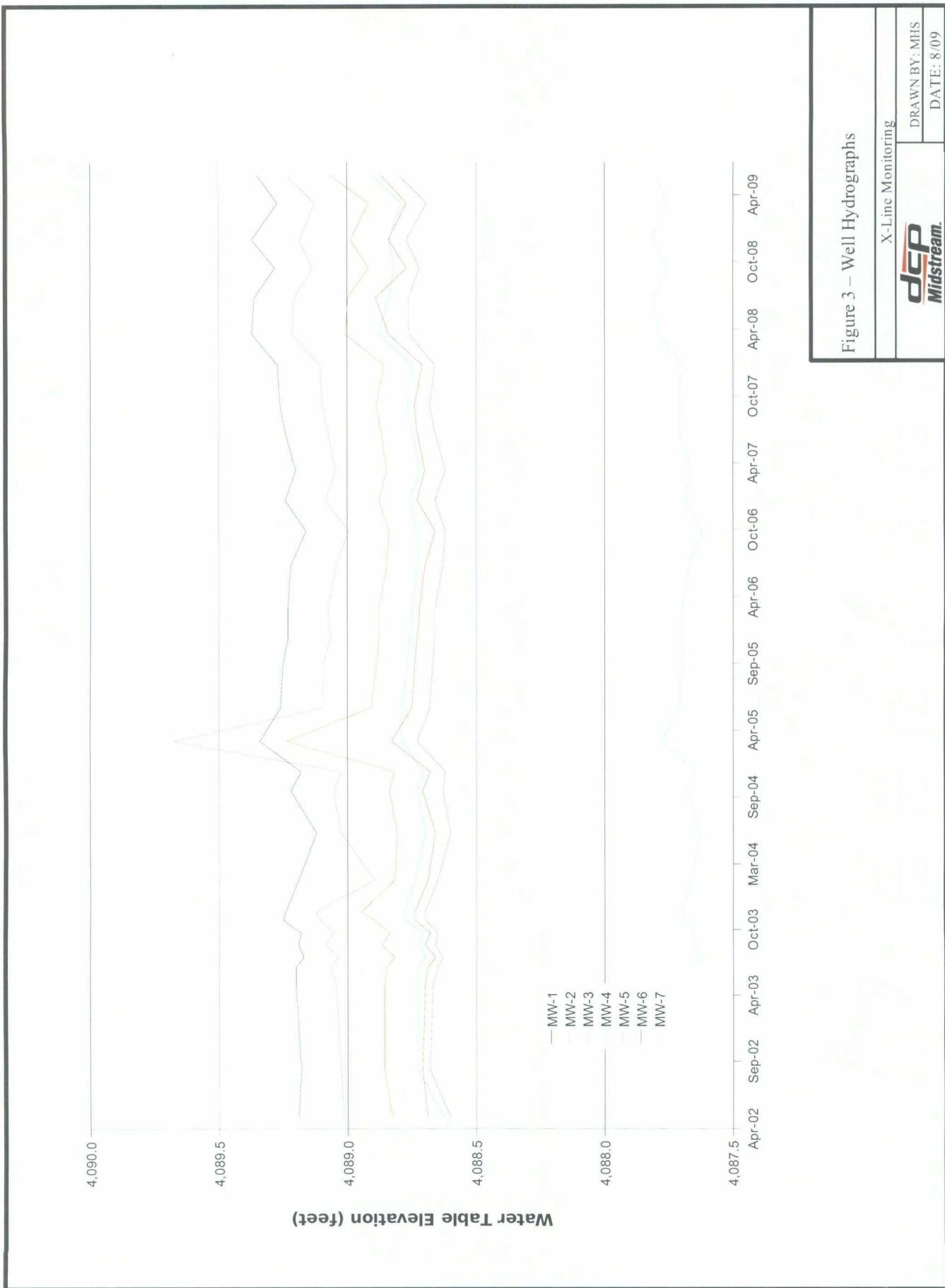


Figure 3 – Well Hydrographs

X-Line Monitoring

DRAWN BY: MHS  
DATE: 8/09  
**DCP**  
**Midstream**

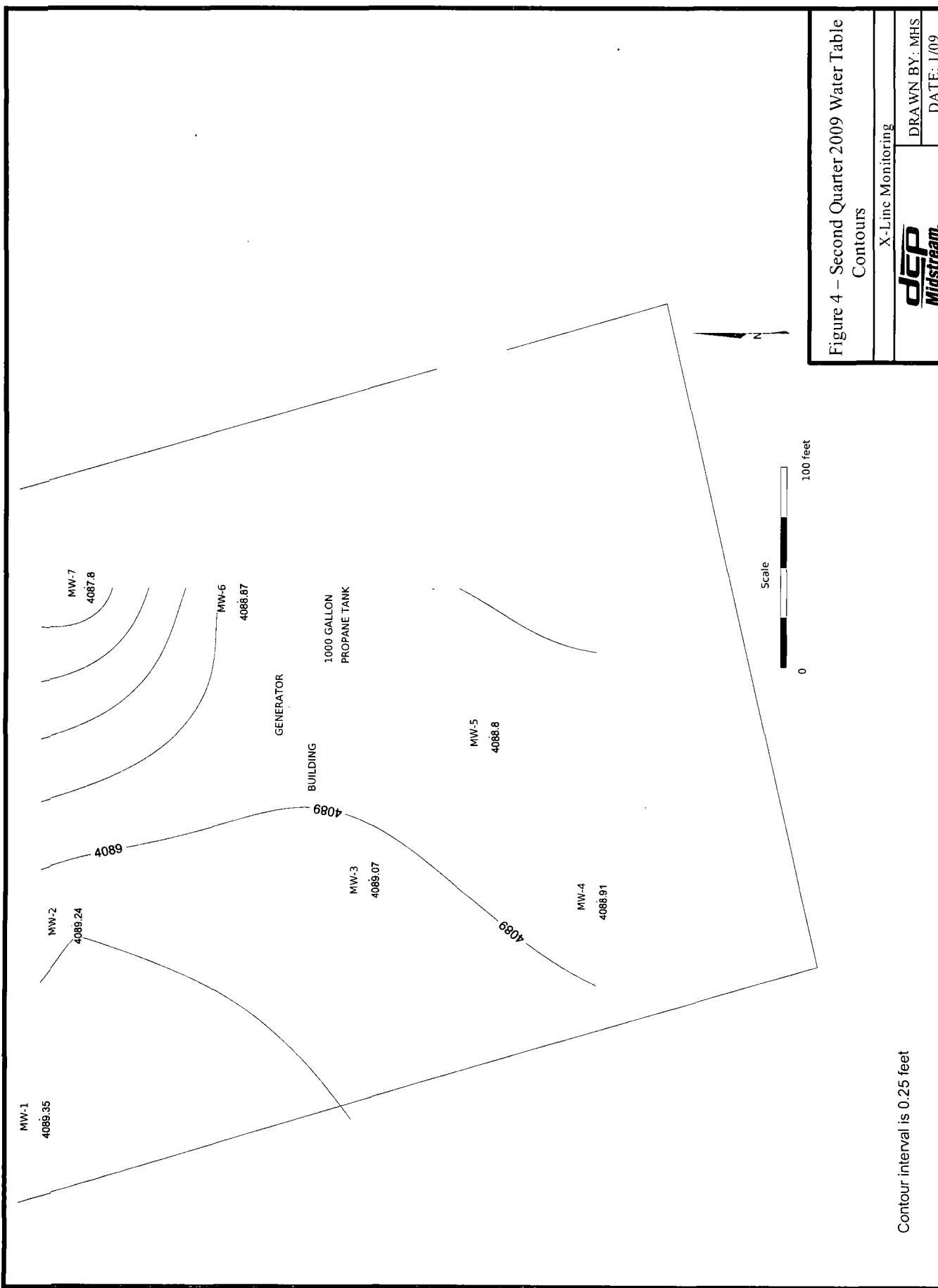


Figure 4 – Second Quarter 2009 Water Table Contours

X-Line Monitoring	DRAWN BY: MHS
<b>DXP</b>	DATE: 1/09
<b>Midstream.</b>	

Contour interval is 0.25 feet

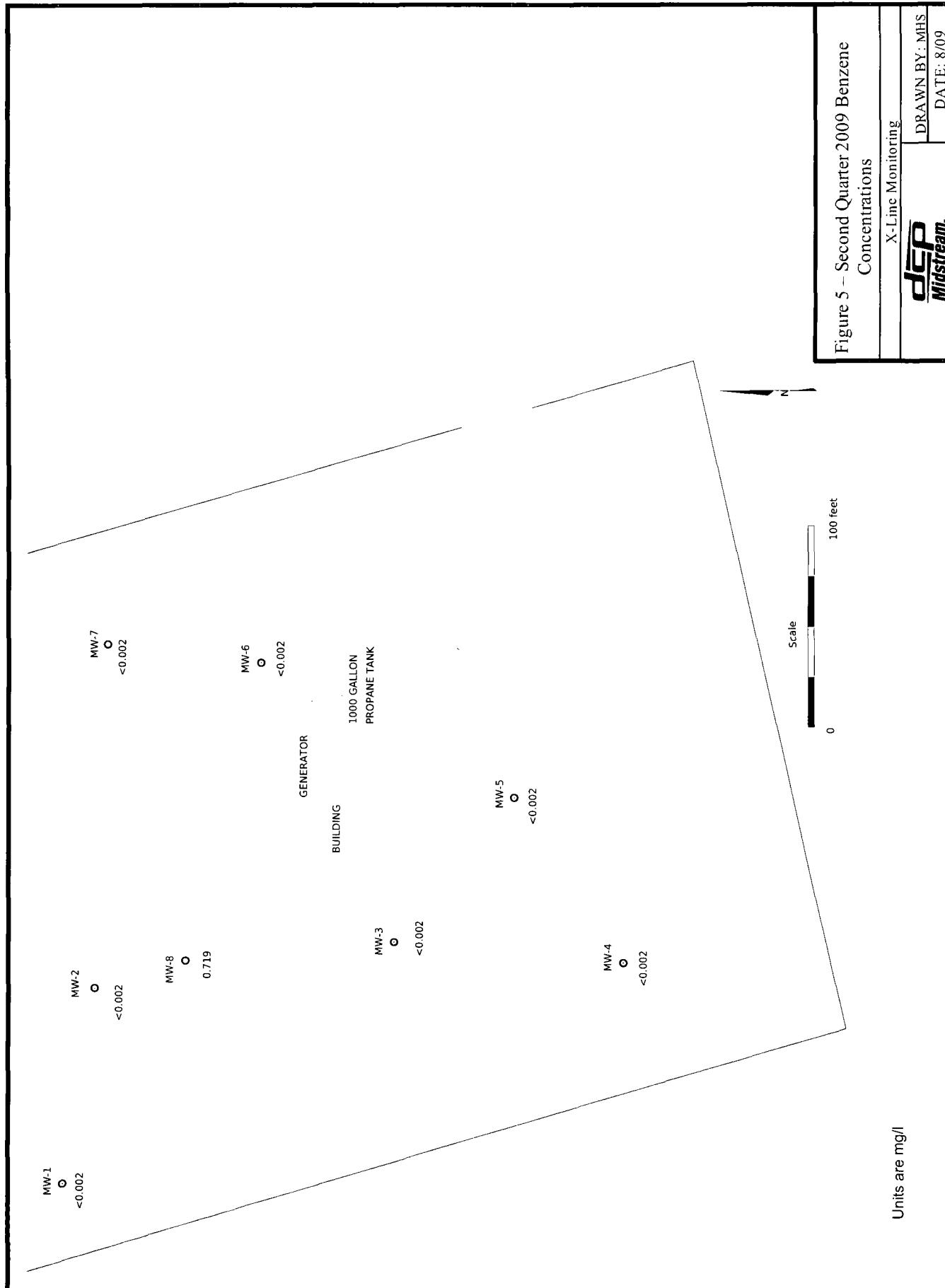


Figure 5 – Second Quarter 2009 Benzene Concentrations

X-Line Monitoring

DRAWN BY: MHS  
DATE: 8/09  
**DEP**  
**Midstream.**

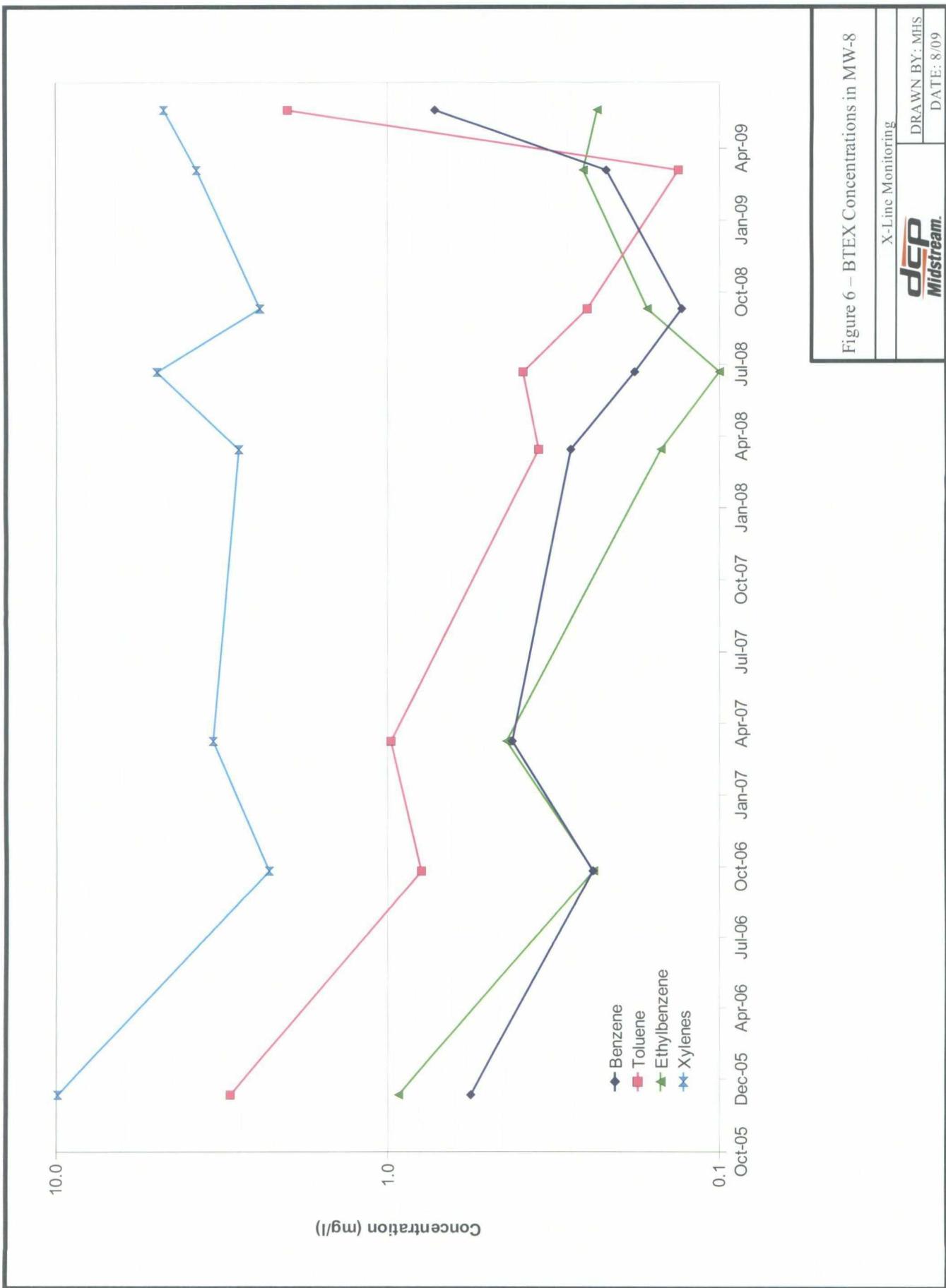


Figure 6 – BTEX Concentrations in MW-8

X-Line Monitoring

DRAWN BY: MHS  
DATE: 8/09

**DCP**  
**Midstream.**

FIELD SAMPLING FORMS  
AND  
LABORATORY ANALYTICAL REPORT

**DCP MIDSTREAM  
X LINE (ETCHEVERRY RANCH)  
DECEMBER 2007  
WELL SAMPLING DATA FORM**

CLIENT: **DCP Midstream**  
SITE NAME: X Line (Etcheverry Ranch)  
PROJECT NO. \_\_\_\_\_

WELL ID: **MW-1**  
DATE: **5/27/2009**  
SAMPLER: **A Taylor**

PURGING METHOD:  Hand Bailed  Pump If Pump, Type: Dedicated Bailer

SAMPLING METHOD:  Dedicated Bailer  Direct from Discharge Hose  Other:

**DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:**

Gloves  Alconox  Distilled Water Rinse  Other:

TOTAL DEPTH OF WELL: 94.30 Feet

**DEPTH TO WATER:** 77.34 Feet

**HEIGHT OF WATER COLUMN:** 16.96 Feet      **8.3**      Minimum Gallons to

WELL DIAMETER: 2.0 Inch      purge 3 well volumes

(Water Column Height x 0.49)

SAMPLE NO.: MW-1

ANALYSES: BTEX 8260

COMMENTS:

**DCP MIDSTREAM  
X LINE (ETCHEVERRY RANCH)  
DECEMBER 2007  
WELL SAMPLING DATA FORM**

CLIENT: **DCP Midstream** WELL ID: **MW-2**  
SITE NAME: X Line (Etcheverry Ranch) DATE: 5/27/2009  
PROJECT NO. SAMPLER: A Taylor

PURGING METHOD:  Hand Bailed  Pump If Pump, Type: \_\_\_\_\_ Dedicated Bailer

SAMPLING METHOD:  Dedicated Bailer  Direct from Discharge Hose  Other:

**DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:**

Gloves  Alconox  Distilled Water Rinse  Other:

TOTAL DEPTH OF WELL: 89.90 Feet

DEPTH TO WATER: 77.28 Feet

TOTAL DEPTH OF WELL: 89.90 Feet

DEPTH TO WATER: 77.28 Feet

HEIGHT OF WATER COLUMN: 12.62 Feet

WELL DIAMETER: 2.0 Inch \_\_\_\_\_ purge 3 well volumes  
(Water Column Height x 0.49)

SAMPLE NO.: MW-2

ANALYSES: BTEX 8260

COMMENTS:

**DCP MIDSTREAM  
X LINE (ETCHEVERRY RANCH)  
DECEMBER 2007  
WELL SAMPLING DATA FORM**

CLIENT: **DCP Midstream** WELL ID: **MW-3**  
SITE NAME: X Line (Etcheverry Ranch) DATE: 5/27/2009  
PROJECT NO.  SAMPLER: A Taylor

PURGING METHOD:  Hand Bailed  Pump If Pump, Type: \_\_\_\_\_ Dedicated Bailer

SAMPLING METHOD:  Dedicated Bailer  Direct from Discharge Hose  Other:

**DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:**

Gloves  Alconox  Distilled Water Rinse  Other:

Gloves  Alconox  Distilled Water Rinse  Other:

TOTAL DEPTH OF WELL: 92.80 Feet

DEPTH TO WATER: 77.26 Feet

HEIGHT OF WATER COLUMN: 15.54 Feet

WELL DIAMETER: 2.0 Inch      purge 3 well volumes  
(Water Column Height x 0.49)

SAMPLE NO.: MW-3

ANALYSES: BTEX 8260

COMMENTS: Collected duplicate sample DUP

**DCP MIDSTREAM  
X LINE (ETCHEVERRY RANCH)  
DECEMBER 2007  
WELL SAMPLING DATA FORM**

CLIENT: **DCP Midstream** WELL ID: **MW-4**  
SITE NAME: X Line (Etcheverry Ranch) DATE: 5/27/2009  
PROJECT NO.  SAMPLER: A Taylor

PURGING METHOD:  Hand Bailed  Pump If Pump, Type: Dedicated Bailer

SAMPLING METHOD:  Dedicated Bailer  Direct from Discharge Hose  Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

Gloves  Alconox  Distilled Water Rinse  Other: \_\_\_\_\_

Gloves  Alconox  Distilled Water Rinse  Other:

**TOTAL DEPTH OF WELL:** \_\_\_\_\_ 93.40 Feet

DEPTH TO WATER: 77.42 Feet

HEIGHT OF WATER COLUMN: 15.98 Feet

WELL DIAMETER: 2.0 Inch

WELL DIAMETER: 2.0 inch purge 5 well volumes  
(Water Column Height x 0.49)

SAMPLE NO.: MW-4

ANALYSES: BTEX 8260

COMMENTS:

**DCP MIDSTREAM  
X LINE (ETCHEVERRY RANCH)  
DECEMBER 2007  
WELL SAMPLING DATA FORM**

CLIENT: **DCP Midstream** WELL ID: **MW-5**  
SITE NAME: X Line (Etcheverry Ranch) DATE: 5/27/2009  
PROJECT NO.  SAMPLER: A Taylor

PURGING METHOD:  Hand Bailed  Pump If Pump, Type: \_\_\_\_\_ Dedicated Bailer

SAMPLING METHOD:  Dedicated Bailer  Direct from Discharge Hose  Other:

**DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:**

Gloves  Alconox  Distilled Water Rinse  Other:

TOTAL DEPTH OF WELL: 91.10 Feet

DEPTH TO WATER: 77.10 Feet

HEIGHT OF WATER COLUMN: 14.00 Feet

WELL DIAMETER: 2.0 Inch      0.0 Gallons to  
purge 3 well volumes  
(Water Column Height x 0.49)

SAMPLE NO.: MW-5

**ANALYSES:** BTEX 8260

COMMENTS: \_\_\_\_\_

**DCP MIDSTREAM  
X LINE (ETCHEVERRY RANCH)  
DECEMBER 2007  
WELL SAMPLING DATA FORM**

CLIENT: **DCP Midstream** WELL ID: **MW-6**  
SITE NAME: X Line (Etcheverry Ranch) DATE: 5/27/2009  
PROJECT NO. SAMPLER: A Taylor

PURGING METHOD:  Hand Bailed  Pump If Pump, Type: Dedicated Bailer

SAMPLING METHOD:  Dedicated Bailer  Direct from Discharge Hose  Other:

**DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:**

Gloves  Alconox  Distilled Water Rinse  Other:

Gloves  Alconox  Distilled Water Rinse  Other: \_\_\_\_\_

**TOTAL DEPTH OF WELL:** 92.90 Feet

DEPTH TO WATER: 77.02 Feet

TOTAL DEPTH OF WELL: 92.90 Feet

DEPTH TO WATER: 77.02 Feet

HEIGHT OF WATER COLUMN: 15.88 Feet

WELL DIAMETER: 2.0 Inch      1.0 Inch      0.5 Inch      0.25 Inch  
purge 3 well volumes  
(Water Column Height x 0.49)

SAMPLE NO.: MW-6

ANALYSES: BTEX 8260

COMMENTS:

**DCP MIDSTREAM  
X LINE (ETCHEVERRY RANCH)  
DECEMBER 2007  
WELL SAMPLING DATA FORM**

**CLIENT:** DCP Midstream

WELL ID: MW-7

SITE NAME: X Line (Etcheverry Ranch)

DATE: 5/27/2009

**PROJECT NO.**

SAMPLER: A Taylor

PURGING METHOD:  Hand Bailed  Pump If Pump, Type: Dedicated Bailer

SAMPLING METHOD:  Dedicated Bailer  Direct from Discharge Hose  Other:

**DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:**

Gloves  Alconox  Distilled Water Rinse  Other:

TOTAL DEPTH OF WELL: 87.40 Feet

DEPTH TO WATER: 76.63 Feet

HEIGHT OF WATER COLUMN: 10.77 Feet

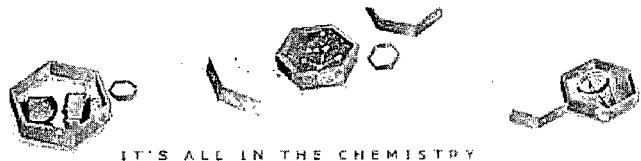
WELL DIAMETER: 2.0 Inch      1.5 Inch      1.0 Inch  
purge 3 well volumes  
(Water Column Height x 0.49)

SAMPLE NO.: MW-7

ANALYSES: BTEX 8260

**COMMENTS:** Collected matrix spike/matrix spike duplicate sample





08/20/09

## Technical Report for

DCP Midstream, LLC

AECCOLI: X-Line



Accutest Job Number: T29987

Sampling Date: 05/27/09

Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

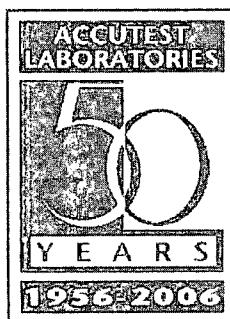
Total number of pages in report: 21



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.

*Paul K Canevaro*

Paul Canevaro  
Laboratory Director



Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)  
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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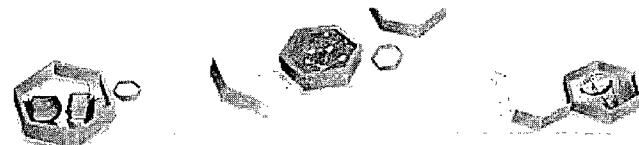
### Sample Summary

DCP Midstream, LLC

Job No: T29987

AECCOLI: X-Line

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T29987-1	05/27/09	09:15 AT	05/28/09	AQ	Ground Water	MW-1
T29987-2	05/27/09	10:05 AT	05/28/09	AQ	Ground Water	MW-2
T29987-3	05/27/09	14:25 AT	05/28/09	AQ	Ground Water	MW-3
T29987-4	05/27/09	13:40 AT	05/28/09	AQ	Ground Water	MW-4
T29987-5	05/27/09	12:00 AT	05/28/09	AQ	Ground Water	MW-6
T29987-6	05/27/09	10:40 AT	05/28/09	AQ	Ground Water	MW-7
T29987-6D	05/27/09	10:40 AT	05/28/09	AQ	Ground Water	MW-7
T29987-6S	05/27/09	10:40 AT	05/28/09	AQ	Ground Water	MW-7
T29987-7	05/27/09	00:00 AT	05/28/09	AQ	Ground Water	DUP
T29987-8	05/27/09	00:00 AT	05/28/09	AQ	Trip Blank Water	TRIP BLANK
T29987-9	05/27/09	12:55 AT	05/28/09	AQ	Ground Water	MW-5



IT'S ALL IN THE CHEMISTRY



## Sample Results

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## Report of Analysis

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## Report of Analysis

Page 1 of 1

Client Sample ID:	MW-1	Date Sampled:	05/27/09
Lab Sample ID:	T29987-1	Date Received:	05/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050780.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	89%		80-133%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID: MW-2

Lab Sample ID: T29987-2

Date Sampled: 05/27/09

Matrix: AQ - Ground Water

Date Received: 05/28/09

Method: SW846 8260B

Percent Solids: n/a

Project: AECCOLI: X-Line

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050781.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	0.0055	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.0125	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.159	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	82%		80-133%

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

N = Indicates presumptive evidence of a compound



## Report of Analysis

Page 1 of 1

Client Sample ID:	MW-3	Date Sampled:	05/27/09
Lab Sample ID:	T29987-3	Date Received:	05/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050782.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-122%
17060-07-0	1,2-Dichloroethane-D4	97%		75-121%
2037-26-5	Toluene-D8	94%		87-119%
460-00-4	4-Bromofluorobenzene	87%		80-133%

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  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

Page 1 of 1

Client Sample ID:	MW-4	Date Sampled:	05/27/09
Lab Sample ID:	T29987-4	Date Received:	05/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050783.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	94%		87-119%
460-00-4	4-Bromofluorobenzene	87%		80-133%

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  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID:	MW-6	Date Sampled:	05/27/09
Lab Sample ID:	T29987-5	Date Received:	05/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050784.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	92%		87-119%
460-00-4	4-Bromofluorobenzene	83%		80-133%

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  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID:	MW-7	Date Sampled:	05/27/09
Lab Sample ID:	T29987-6	Date Received:	05/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050785.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		79-122%
17060-07-0	1,2-Dichloroethane-D4	111%		75-121%
2037-26-5	Toluene-D8	93%		87-119%
460-00-4	4-Bromofluorobenzene	85%		80-133%

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  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID:	DUP	Date Sampled:	05/27/09
Lab Sample ID:	T29987-7	Date Received:	05/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050791.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-122%
17060-07-0	1,2-Dichloroethane-D4	104%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	85%		80-133%

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  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID:	TRIP BLANK	Date Sampled:	05/27/09
Lab Sample ID:	T29987-8	Date Received:	05/28/09
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050789.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	96%		87-119%
460-00-4	4-Bromofluorobenzene	81%		80-133%

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  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID:	MW-5	Date Sampled:	05/27/09
Lab Sample ID:	T29987-9	Date Received:	05/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: X-Line		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0050790.D	1	06/02/09	JL	n/a	n/a	VZ2519
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-122%
17060-07-0	1,2-Dichloroethane-D4	104%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	84%		80-133%

ND = Not detected MDL - Method Detection Limit

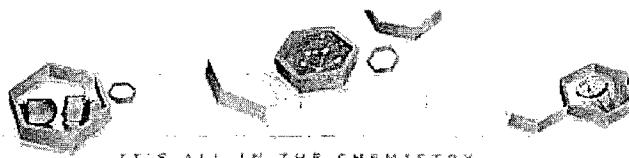
J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



IT'S ALL IN THE CHEMISTRY



## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



**CHAIN OF CUSTODY**

PAGE OF

10165 Harwin Dr, Ste 150 Houston, TX 77036  
TEL. 713-271-4700 FAX: 713-271-4770  
[www.tccutst.com](http://www.tccutst.com)

Client / Reporting Information		Project Information		Requested Analyses		Matrix Codes										
Company Name <b>DCP Midstream</b>	Project Name: <b>DCP Midstream X-Line</b>	Street Address <b>370 Seventeenth Street, Suite 2500</b>	Street <b>Denver CO 80202</b>	Billing Information (If different from Report to)	Company Name											
Project Contact <b>Stephen Weathers</b>	E-mail <b>303-605-1718</b>	Project #	City <b>Denver</b>	State <b>CO</b>	Street Address											
Phone # <b>303-605-1718</b>	Fax #	Client Purchase Order #	City	State	Zip											
Sampler(s) Name(s) <b>A. Taylor</b>	Phone #	Project Manager <b>M. Stewart 303-6380001</b>	Attention:													
Collection		Number of preserved bottles														
Acquired Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Mins	# of bottles	D	ZINC	NaOH	HCl	HNO3	CH3CO	TBP	NaSCN	ENCRE	Other
1	MW-1	5/27	915	AEC	GW	3	3									X
2	MW-2	5/27	1005	AEC	GW	3	3								X	
3	MW-3	5/27	225	AEC	GW	3	3								X	
4	MW-4	5/27	140	AEC	GW	3	3								X	
5	MW-6	5/27	1200	AEC	GW	3	3								X	
6	MW-7	5/27	1040	AEC	GW	3	3								X	
	MW-8	—	—	—	GW	3	3								X	
7	Dup	5/27	000	AEC	GW	3	3								X	
8	MW-7 MS/MSD	5/27	104	AEC	GW	66	66								X	
9	Trip Blank	5/27	Lab	Lab	WIB	3	3								X	
Turnaround time (Business days)		Data Deliverable Information						Comments / Special Instructions								
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 8 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY Charge by A.M. 10% A rate available via Lablink		<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULL1 (Level 3-4) <input type="checkbox"/> REDT1 (Level 3-4) <input type="checkbox"/> Commercial "C"						<input type="checkbox"/> Commercial "A" = Results Only <input type="checkbox"/> Commercial "B" = Results + QC Summary <input type="checkbox"/> Commercial "C" = Results + QC & Surrogate Summary								
<b>Sample Custody</b> must be documented below each time samples change possession, including courier delivery.																
Relinquished by <i>[Signature]</i>	Date Time: 5/27/09 5:30	Received By: 1	Relinquished By: 2 FedEx	Date Time: 0930 05/27/09	Received By: 2	Relinquished By: 4	Date Time: 0930 05/27/09	Received By: 4	Relinquished By: 4	Date Time: 0930 05/27/09	Received By: 4	Relinquished By: 4	Date Time: 0930 05/27/09	Received By: 4	On Ice 34°C	Cooler Temp 34°C
Relinquished by <i>[Signature]</i>	Date Time: 5/27/09 5:30	Received By: 3	Relinquished By: 4	Date Time: 0930 05/27/09	Received By: 4	Relinquished By: 5	Date Time: 0930 05/27/09	Received By: 5	Relinquished By: 5	Date Time: 0930 05/27/09	Received By: 5	Relinquished By: 5	Date Time: 0930 05/27/09	Received By: 5	On Ice 34°C	Cooler Temp 34°C

T29987: Chain of Custody  
Page 1 of 3

# SAMPLE INSPECTION FORM

Accutest Job Number: T29987 Client: D.C.P. Midstream Date/Time Received: 05/28/09 0930

# of Coolers Received: 1 Thermometer #: 12-1 Temperature Adjustment Factor: -0.4

Cooler Temps: #1: 3.4 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_ #5: \_\_\_\_\_ #6: \_\_\_\_\_ #7: \_\_\_\_\_ #8: \_\_\_\_\_

Method of Delivery:  FEDEX  UPS  Accutest Courier  Greyhound  Delivery  Other

Airbill Numbers: \_\_\_\_\_

## COOLER INFORMATION

- Custody seal missing or not intact
- Temperature criteria not met
- Wet ice received in cooler

## CHAIN OF CUSTODY

- Chain of Custody not received
- Sample D/T unclear or missing
- Analyses unclear or missing
- COC not properly executed

## SAMPLE INFORMATION

- Sample containers received broken
- VOC vials have headspace
- Sample labels missing or illegible
- ID on COC does not match label(s)
- D/T on COC does not match label(s)
- Sample/Bottles recd but no analysis on COC
- Sample listed on COC, but not received
- Bottles missing for requested analysis
- Insufficient volume for analysis
- Sample received improperly preserved

## TRIP BLANK INFORMATION

- Trip Blank on COC but not received
- Trip Blank received but not on COC
- Trip Blank not intact
- Received Water Trip Blank
- Received Soil TB

Number of Encores? \_\_\_\_\_

Number of 5035 kits? \_\_\_\_\_

Number of lab-filtered metals? \_\_\_\_\_

Summary of Discrepancies:

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TECHNICIAN SIGNATURE/DATE: J. L. S. 5/28/09

INFORMATION AND SAMPLE LABELING VERIFIED BY: JL 5/28/09

## CORRECTIVE ACTIONS

Client Representative Notified: \_\_\_\_\_ Date: \_\_\_\_\_

Via: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

By Accutest Representative: \_\_\_\_\_

Client Instructions:

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http://www.acutest.com/samplemanagement

T29987: Chain of Custody

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T29987

ACCU<sup>TM</sup> TEST

**SAMPLE RECEIPT LOG**

JOB #: 129987

DATE/TIME RECEIVED: 05/29/09 0930

CLIENT: DCP Midstream

INITIALS: J.F.

PRESERVATIVES: 1: None 2: HCl 3: HNO<sub>3</sub> 4: H<sub>2</sub>SO<sub>4</sub> 5: NaOH 6: DI 7: MeOH 8: Other

**LOCATION:** 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

## T29987: Chain of Custody

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## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

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

## Method Blank Summary

Page 1 of 1

Job Number: T29987

Account: DUKE DCP Midstream, LLC

Project: AECCOLI: X-Line

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2519-MB	Z0050779.D	1	06/02/09	JL	n/a	n/a	VZ2519

The QC reported here applies to the following samples:

Method: SW846 8260B

T29987-1, T29987-2, T29987-3, T29987-4, T29987-5, T29987-6, T29987-7, T29987-8, T29987-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106%
17060-07-0	1,2-Dichloroethane-D4	100%
2037-26-5	Toluene-D8	97%
460-00-4	4-Bromofluorobenzene	86%

## Blank Spike Summary

Page 1 of 1

Job Number: T29987

Account: DUKE DCP Midstream, LLC

Project: AECCOLI: X-Line

4.2.1  
4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2519-BS	Z0050788.D	1	06/02/09	JL	n/a	n/a	VZ2519

The QC reported here applies to the following samples:

Method: SW846 8260B

T29987-1, T29987-2, T29987-3, T29987-4, T29987-5, T29987-6, T29987-7, T29987-8, T29987-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.0	100	76-118
100-41-4	Ethylbenzene	25	22.7	91	75-112
108-88-3	Toluene	25	24.4	98	77-114
1330-20-7	Xylene (total)	75	64.0	85	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%
2037-26-5	Toluene-D8	96%	87-119%
460-00-4	4-Bromofluorobenzene	74%* a	80-133%

(a) Outside control limits. There are no target compounds associated with this surrogate.

## Matrix Spike/Matrix Spike Duplicate Summary

ERROR: invalidaccess  
OFFENDING COMMAND: def

STACK:

```
(  
Copyright (c) 1992, 1993, 1994, 1999 Adobe Systems Incorporated. All Rights Reserved.  
)  
/Notice  
-dictionary-  
/FontInfo  
-dictionary-  
false
```