1RP – 1728

1st Semi Annual GW monitoring Report

YEAR(S): 2009

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

RECEIVED
2009 JUN 3 AM 11 34

June 2, 2009

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

RE: 1st Quarter 2009 Groundwater Monitoring Results
DCP Midstream, LP J-4-2 Pipeline Release (1RP-1728)
Unit C, Section 27, Township 19 South, Range 35 East
Lea County, New Mexico

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, a copy of the 1st Quarter 2009 Groundwater Monitoring Results for the DCP J-4-2 Pipeline Release located in Lea County, New Mexico (Unit C, Section 27, Township 19 South, Range 35 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

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

RECEIVED
2009 JUN 3 AM 11 34

May 26, 2009

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

Re: Summary of the First Quarter 2009 Groundwater Monitoring Results for the DCP J-4-2 Pipeline Release in Lea County New Mexico **(1RP-1728)**
Unit C, Section 27 Township 19 South, Range 35 East

Dear Mr. Weathers:

This report summarizes the first quarter 2009 groundwater monitoring activities completed at the J-4-2 release location for DCP Midstream, LP. The site is located in the northeastern quarter of the northwestern quarter (Unit C) of Section 27, Township 19 South, Range 35 East approximately 3 miles south of the of intersection of US Highway 82 and State Highway 483 in Lea County New Mexico (Figure 1). The approximate coordinates are 32.647 degrees north and 103.447 degrees west.

The monitoring network includes the seven groundwater monitoring wells shown on Figure 2. Table 1 summarizes construction information for each well. Note that monitoring well MW-5 was not installed because of drilling refusal. Five wells were sampled. Wells MW-1 and MW-2 were not sampled because they contained free phase hydrocarbons (FPH).

GROUNDWATER SAMPLING

Groundwater sampling was completed on March 11, 2009. The depth to water and, if present, free phase hydrocarbons (FPH) were measured in each well prior to conducting the purging and sampling activities. 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)

The calculated groundwater elevations for all monitoring episodes are summarized in Table 2. FPH was measured at thicknesses of 0.32 feet in MW-1 and 0.27feet in MW-2. The historic FPH thickness values are summarized in Table 3.

Wells MW-3, MW-4, MW-6, MW-7 and MW-8 were purged and sampled with dedicated bailers. Purging continued until a minimum of three casing volumes of water was removed and the field parameters temperature, pH and conductivity stabilized. The well purging forms are attached. The affected purge water was disposed of at the DCP Linam Ranch facility.

Unfiltered samples were collected upon stabilization using the dedicated bailers. All samples were placed in an ice-filled chest immediately upon collection and delivered to Accutest Laboratories using standard chain-of-custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) and chlorides.

RESULTS AND INTERPRETATIONS

The laboratory report is attached. The QA/QC evaluation included:

- The method blanks and blank spikes were all within their respective control limits.
- All of the individual surrogate spikes were within their control limits.
- The matrix spike and matrix spike duplicate results from MW-6 were within the control limits for all four constituents.
- There were no BTEX detects in the trip blanks or the primary and field duplicate samples from MW-3.
- The 43.4 relative percentage difference for chlorides from the primary and field duplicate samples from MW-3 is high but acceptable given the use of the data.

The above information indicates that the data is suitable for use as periodic groundwater monitoring data.

The results and interpretations presented below are based upon all of the data collected to date. The laboratory analyses for the first quarter 2009 sampling episode are summarized in Table 4. Tables 5, 6, 7 and 8 summarize all of the data collected during this project for benzene, toluene, ethylbenzene and xylenes. Table 9 summarizes the chloride data. The New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are reproduced at the top of each table. The constituents that exceed these standards are highlighted as bold text. Note that the chlorides standard is a secondary (non-health based) standard.

Groundwater Flow

Figure 3 includes hydrographs for the corrected water-table elevations for all site wells. The water table increased in MW-1 and MW-4 and declined in the other wells.

The resulting first quarter 2009 calculated water table elevation contours as generated using the Surfer® program with the kriging option are shown on Figure 4. The water table exhibits a gradient that increases slightly in the southeast part of the study area. The groundwater flow direction has remained constant over the duration of the project.

Groundwater Chemistry

Examination of Table 4 shows that none of the BTEX constituents were detected in the wells that did not contain FPH. The benzene concentrations are plotted on Figure 5 along with the wells that contained FPH. Comparison of Figure 4 with Figure 5 demonstrates that any dissolved-phase BTEX constituents from MW-1 and MW-2 attenuate to concentrations that are below the method reporting limits before reaching MW-7 or MW-8.

It is also important to note that:

- The toluene, ethylbenzene and total xylenes concentrations have never exceeded the NMWQCC standards in any of the wells;
- Benzene has not been detected in MW-4 since March 2007; and
- Benzene has never been detected in down-gradient wells MW-6, MW-7 and MW-8.

Examination of Table 6, the historical chlorides data, indicates that the chlorides concentrations in all wells exceed the NMWQCC secondary standard of 250 mg/l except for the fourth quarter 2008 value from MW-4. This chloride concentration rebounded to its historical range in the most recent sampling event.

A chloride isopleth map generated from the first quarter 2009 data using the Surfer® program is included as Figure 7. The chloride distribution indicates a source to the west and outside of the DCP release area.

CONCLUSIONS AND RECOMMENDATIONS

Based upon the data collected to date, AEC concludes that:

1. Groundwater flow remains constant toward the southeast;
2. The presence of dissolved phase BTEX constituents is limited to the original release area as defined by MW-1 and MW-2;
3. The dissolved-phase hydrocarbon plume associated with the DCP J-4-2 pipeline release is either stable or contracting;
4. The first quarter 2009 data continue to confirm that the chlorides that are present in the groundwater did not originate from the DCP release.

AEC recommends continued quarterly groundwater monitoring to evaluate any effects produced by the open excavation. The next groundwater-monitoring event is scheduled for the second quarter of 2009.

Do not hesitate to contact me if you have any questions or comments on this letter.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

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

TABLES

Table 1 – Summary of Monitoring Well Completions at the J-4-2 Site

Name	Date Installed	Stickup	Casing Diameter (inches)	Total Depth (btoc)	Screen Interval (ground)	Sand Interval
MW-1	2/06	3.17	2	43.05	19-39	17-39
MW-2	2/06	3.08	4	43.30	19-39	17-39
MW-3	2/06	3.21	2	43.00	19-39	17-39
MW-4	9/06	3.12	2	38.12	20-35	18-35
MW-5	Not installed because of drilling refusal					
MW-6	9/06	3.32	2	38.32	20-35	18-35
MW-7	9/06	2.95	2	39.45	21.5-36.5	19.5-36.5
MW-8	9/06	3.32	2	38.32	20-35	18-35

All units are feet except as noted
btoc: Below top of casing

Table 2 - Summary of Water Table Elevations for the J-4-2 Site

Well	2/15/06	9/25/06	12/21/06	3/14/07	6/26/07	9/25/07	11/30/07
MW-1	3713.61	3712.60	3712.63	3712.29	3712.15	3711.86	3712.42
MW-2	3713.93	3713.48	3712.49	3712.75	3712.63	3712.34	3712.91
MW-3	3713.36	3712.57	3712.57	3712.55	3712.79	3711.50	3712.09
MW-4		3712.80	3712.82	3712.78	3713.25	3712.98	3713.48
MW-6		3711.76	3712.00	3711.96	3711.87	3711.56	3711.92
MW-7		3711.03	3710.80	3710.73	3710.50	3709.87	3710.33
MW-8		3709.22	3708.95	3708.79	3708.54	3708.06	3708.33

Well	3/20/08	6/27/08	9/16/08	12/3/08	3/11/09
MW-1	3713.48	NM	NM	3711.94	3712.19
MW-2	3713.40	NM	NM	3712.14	3711.99
MW-3	3713.30	3713.09	3712.34	3712.25	3712.10
MW-4	3713.70	3713.13	3712.18	3712.10	3712.36
MW-6	3712.53	3712.20	3711.86	3711.70	3711.57
MW-7	3711.38	3710.95	3710.11	3710.00	3709.84
MW-8	3709.17	3708.78	3708.23	3708.13	3707.95

Units are feet
Blank cells: wells not installed
NM: Not measured because of probe malfunction.

Table 3 - Summary of Free Phase Hydrocarbon Thickness Values for MW-1 and MW-2

Date	MW-1	MW-2
02/15/06	0.00	0.57
09/25/06	0.00	0.15
12/21/06	0.09	0.13
03/14/07	0.07	0.10
06/26/07	0.09	0.00
09/25/07	0.09	0.03
11/30/07	0.00	0.00
03/20/08	0.00	0.00
06/27/08	0.04	0.01
09/16/08	0.08	0.02
12/03/08	0.21	0.17
03/11/09	0.32	0.27

Units are feet

Table 4 - Summary of Fourth Quarter 2008 Groundwater Sampling Results

Well	Benzene	Toluene	Ethyl benzene	Total Xylene	Chlorides
NMWQCC Groundwater Standard	0.01	0.75	0.75	0.62	250*
MW-3	<0.002	<0.002	<0.002	<0.006	**2240**
MW-3 Duplicate	<0.002	<0.002	<0.002	<0.006	**3480**
MW-4	<0.002	<0.002	<0.002	<0.006	**1390**
MW-6	<0.002	<0.002	<0.002	<0.006	**363**
MW-7	<0.002	<0.002	<0.002	<0.006	**944**
MW-8	<0.002	<0.002	<0.002	<0.006	**417**

Notes: Units are mg/l,
MW-1 and MW-2 not sampled because free phase hydrocarbons were present
MW-5 was not installed because of drilling refusal
NMWQCC: New Mexico Water Quality Control Commission
Values above the NMWQCC standard are highlighted as bold text.
* Secondary (aesthetics) rather than primary (health-based) standards.

Table 5 – Summary of Benzene Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08
MW-1	0.139	0.0487	FPH	FPH	FPH	0.011	0.107	0.037	FPH	FPH	FPH
MW-2	0.026	0.0045	0.006	0.188	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.001	<0.002	<0.002	<0.002	0.003	<0.001	0.0011J	<0.002	<0.002	<0.002	<0.002
MW-4	NI	0.0086	0.025	0.004	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002

Notes: Units are mg/l,
MW-5 was not installed
Duplicates are averaged together
J modifiers are not included in this table
FPH: Free phase hydrocarbons present so well not sampled
NI: Well not installed

Table 6 – Summary of Toluene Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08
MW-1	0.326	0.0058	FPH	FPH	FPH	0.003	0.024	0.0155	FPH	FPH	FPH
MW-2	0.038	<0.001	0.003	0.006	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.001	<0.002	<0.002	<0.002	0.005	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	NI	0.00093J	0.005	6E-04	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002

Notes: Units are mg/l,
MW-5 was not installed
Duplicates are averaged together
J modifiers are not included in this table
FPH: Free phase hydrocarbons present so well not sampled
NI: Well not installed

Table 7 – Summary of Ethylbenzene Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08
MW-1	0.34	0.0284	FPH	FPH	FPH	0.004	0.04	0.014	FPH	FPH	FPH
MW-2	0.04	0.0027	0.003	0.026	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.001	<0.002	<0.002	<0.002	0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-4	NI	0.0092	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-6	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-7	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
MW-8	NI	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002

Notes: Units are mg/l,
MW-5 was not installed
Duplicates are averaged together
J modifiers are not included in this table
FPH: Free phase hydrocarbons present so well not sampled
NI: Well not installed

Table 8 – Summary of Total Xylenes Groundwater Data

Well	2/06	9/06	12/06	3/07	6/07	9/07	11/07	3/08	6/08	9/08	12/08
MW-1	0.31	0.0694	FPH	FPH	FPH	0.098	0.39	0.215	FPH	FPH	FPH
MW-2	0.335	0.0471	0.0613	0.125	FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-3	<0.002	<0.006	<0.006	<0.006	0.01	<0.001	<0.006	<0.006	0.007	<0.006	<0.006
MW-4	NI	0.0061	0.0065	0.003	0.003	<0.001	<0.006	<0.006	<0.006	0.0041J	<0.006
MW-6	NI	<0.006	<0.006	<0.006	<0.001	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006
MW-7	NI	<0.006	<0.006	<0.006	0.003	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006
MW-8	NI	<0.006	<0.006	<0.006	<0.001	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006

Notes: Units are mg/l,
MW-5 was not installed
Duplicates are averaged together
J modifiers are not included in this table
FPH: Free phase hydrocarbons present so well not sampled
NI: Well not installed

Table 9 – Summary of Chlorides Groundwater Data

Well	3/14/07	6/26/07	9/16/08	12/3/08	3/11/09
MW-3	**7,800**	**10,800**	**4,070**	**2,625**	**2,860**
MW-4	**1,300**	**1,380**	**1,440**	70	**1,390**
MW-6	**669**	**544**	**537**	**391**	**363**
MW-7	**1,230**	**1,150**	**1,180**	**1,050**	**944**
MW-8	**609**	**617**	**735**	**480**	**417**

Notes: Units are mg/l
Duplicates are averaged together
Values above the 250 NMWQCC secondary standard are highlighted as bold text

FIGURES

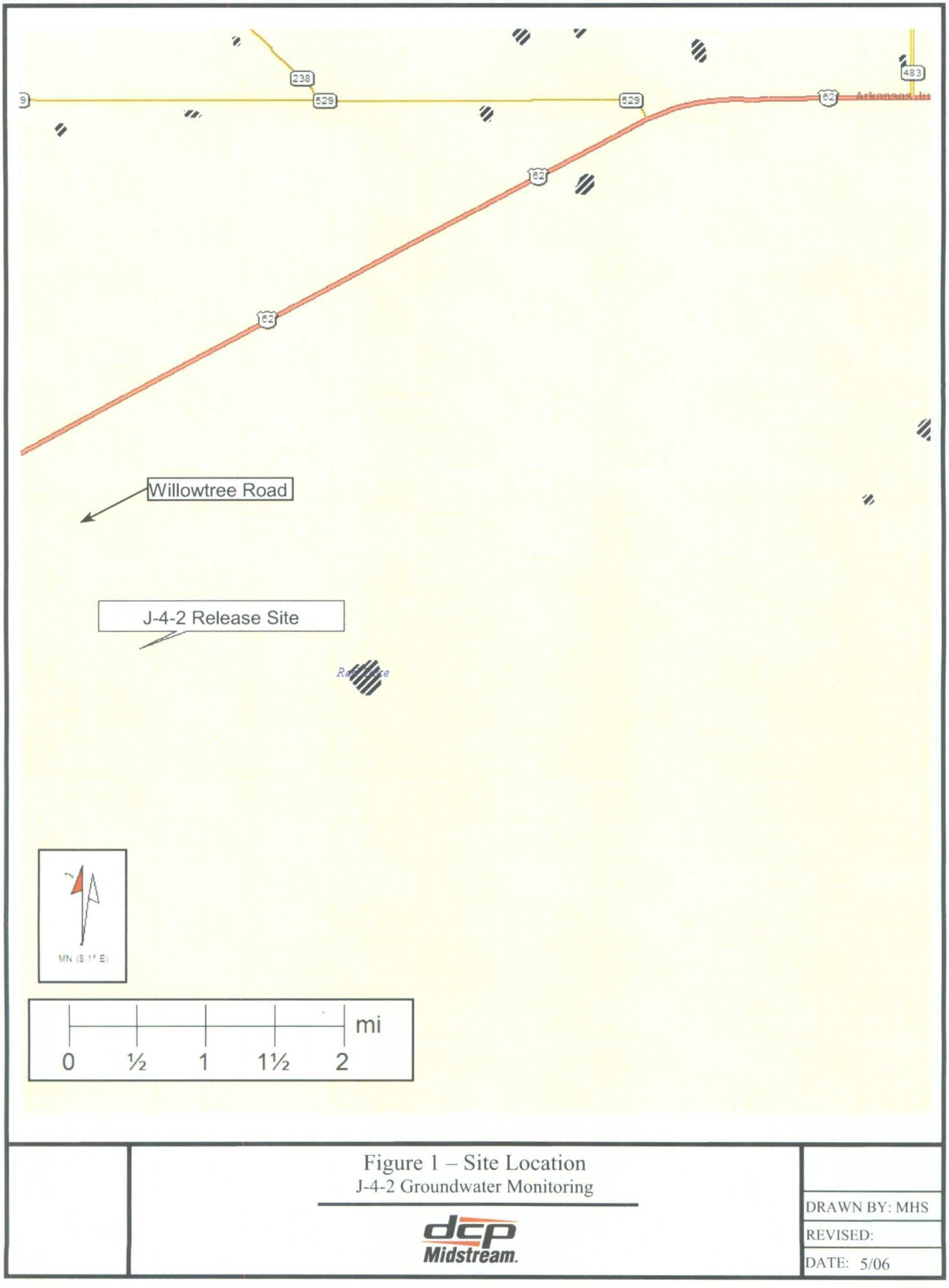


Figure 1 – Site Location
J-4-2 Groundwater Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	
DATE:	5/06

Figure 2 – Site Details

J-4-2 Groundwater Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 10/08

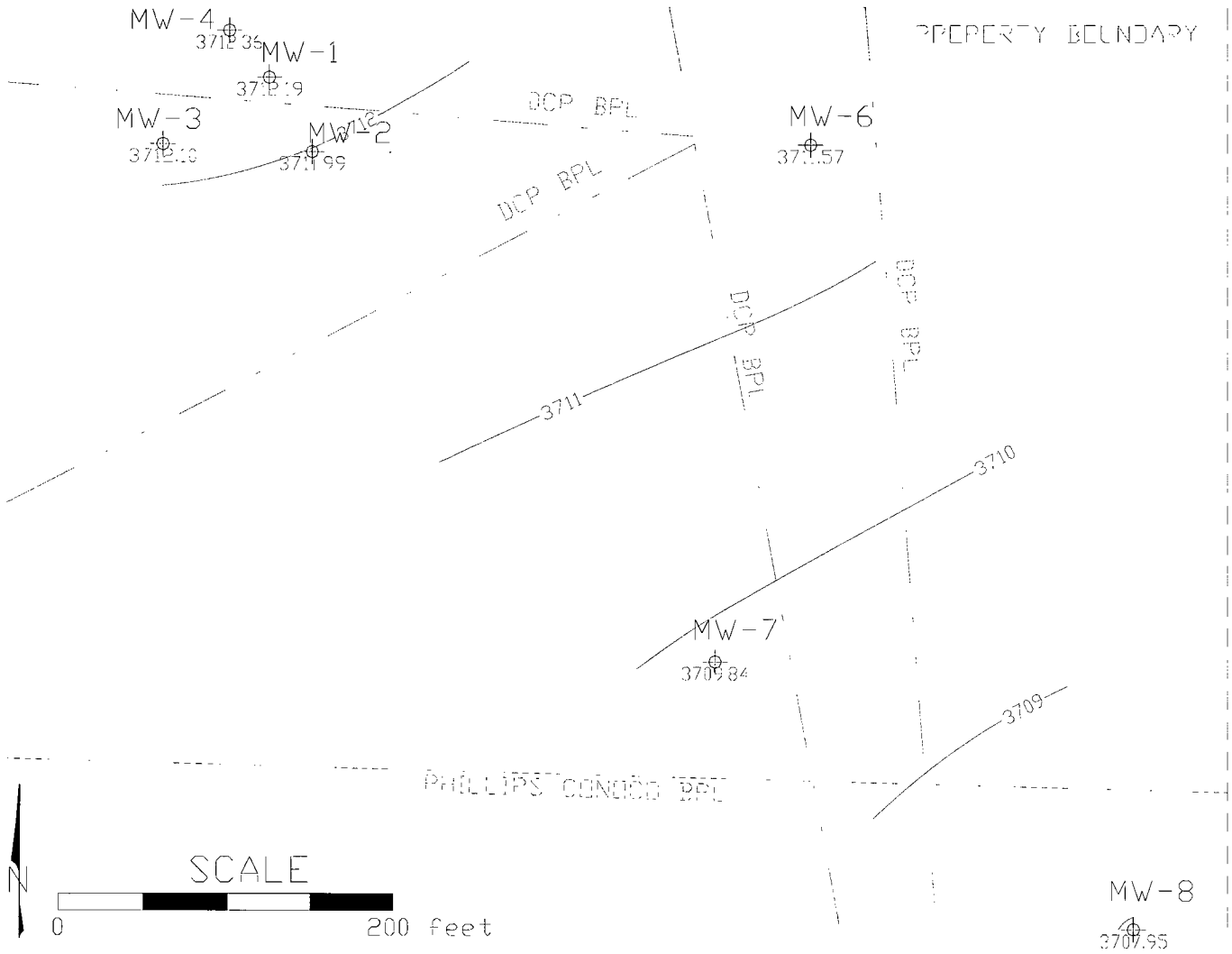
Figure 3 – Monitoring Well Hydrographs

J-4-2 Groundwater Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 4/09



Contour interval is 1 foot

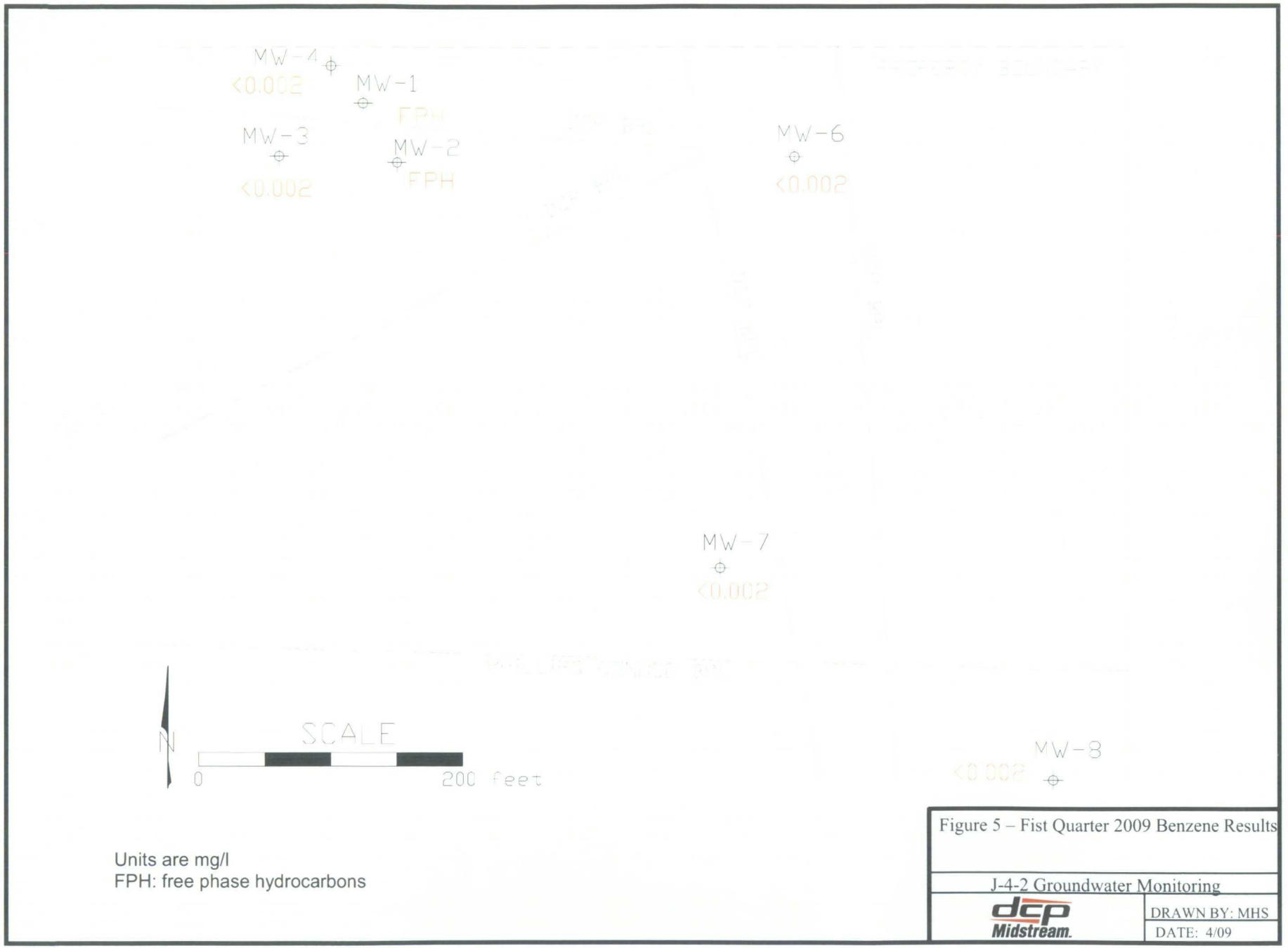
Figure 4 – First Quarter 2009 Water Table

J-4-2 Groundwater Monitoring

DCP Midstream.

DRAWN BY: MHS

DATE: 4/09



Units are mg/l
FPH: free phase hydrocarbons

Figure 5 – Fist Quarter 2009 Benzene Results

J-4-2 Groundwater Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 4/09

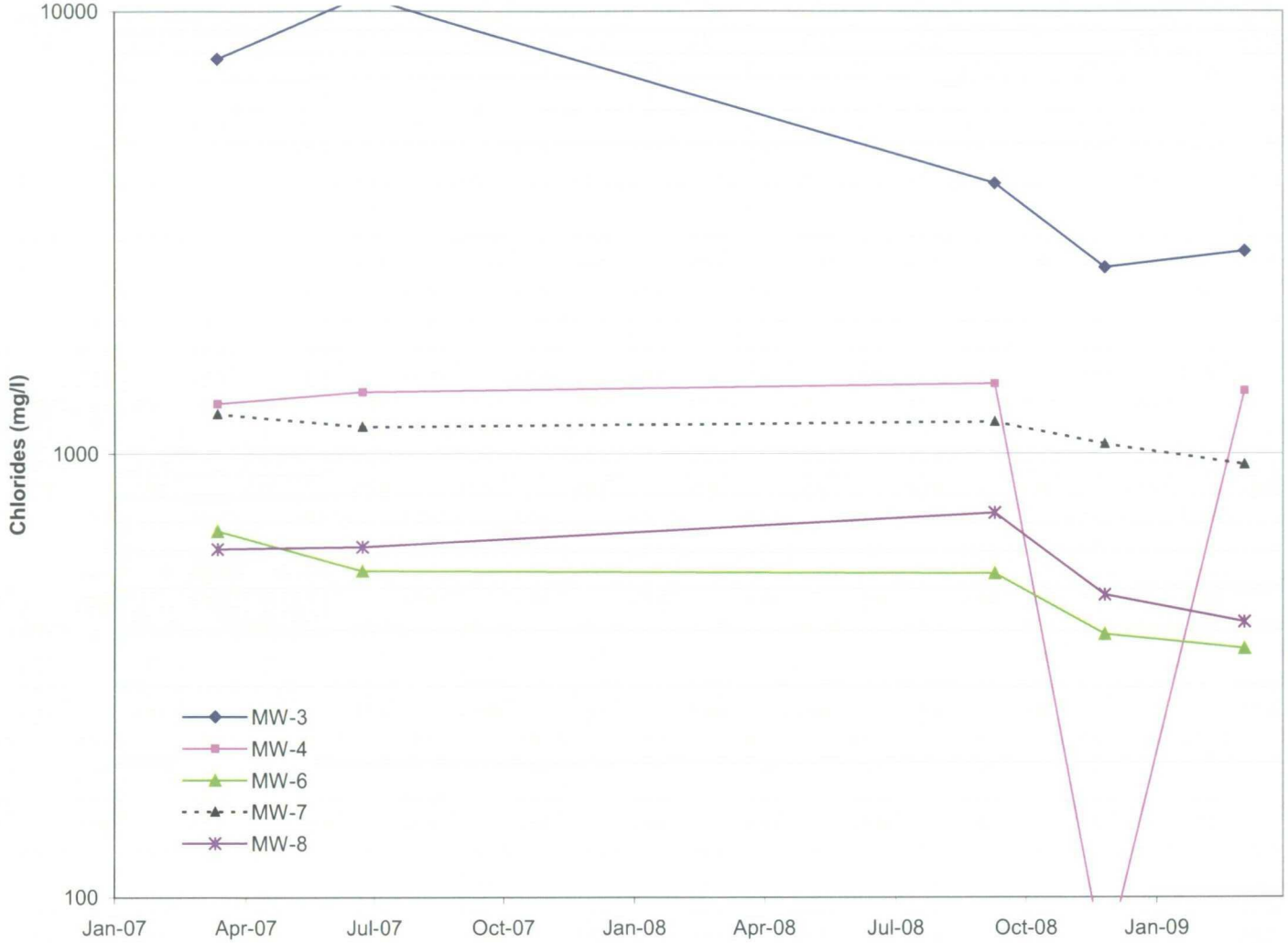


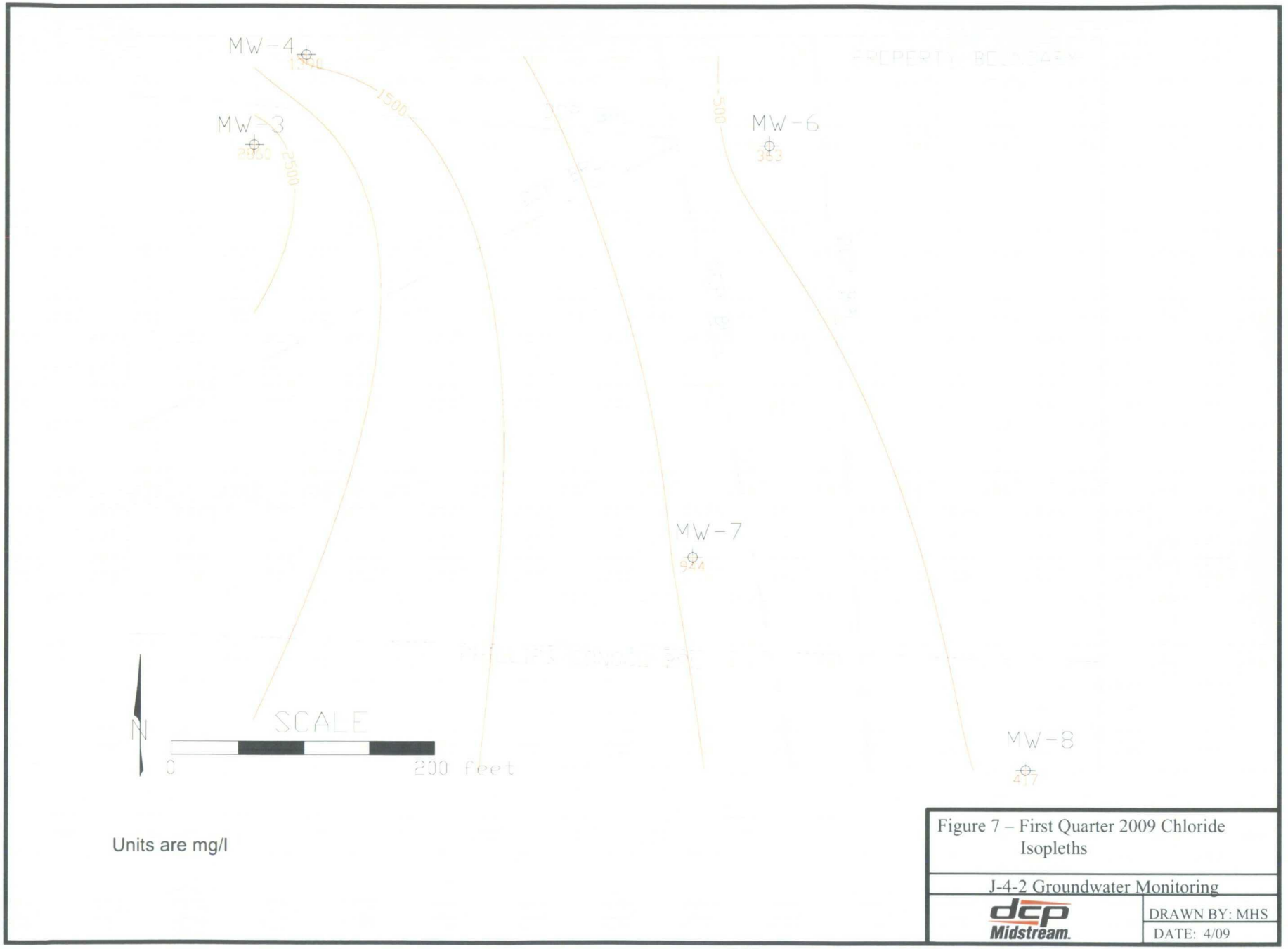
Figure 6 – Chloride Concentrations Verses Sampling Date

J-4-2 Groundwater Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 4/09



Units are mg/l

Figure 7 – First Quarter 2009 Chloride Isopleths

J-4-2 Groundwater Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 4/09

WELL SAMPLING DATA

AND LABORATORY ANALYTICAL REPORT

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-1**

SITE NAME: J 4 2 DATE: 12/3/2008

PROJECT NO. _____ SAMPLER: M. Stewart/A. Taylor

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

TOTAL DEPTH OF WELL: 43.05 Feet
DEPTH TO WATER: 27.88 Feet
HEIGHT OF WATER COLUMN: 15.17 Feet
WELL DIAMETER: 4.0 Inch

29.7 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	0.0	: Total volume purged					

SAMPLE NO.: MW-1

ANALYSES: BTEX (8260)

COMMENTS: No sample Free Phase HCs

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-2**

SITE NAME: J 4 2 DATE: 12/3/2008

PROJECT NO. _____ SAMPLER: M. Stewart/A. Taylor

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ *Gloves* ☐ *Alconox* ☐ *Distilled Water Rinse* ☐ Other: _____

TOTAL DEPTH OF WELL: 43.30 Feet

DEPTH TO WATER: 29.03 Feet

HEIGHT OF WATER COLUMN: 14.27 Feet

WELL DIAMETER: 2.0 Inch

7.0 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m* S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	0.0	: Total volume purged					

SAMPLE NO.: MW-2

ANALYSES: BTEX (8260)

COMMENTS: No sample Free Phase HCs

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-3**

SITE NAME: J 4 2 DATE: 12/3/2008

PROJECT NO. _____ SAMPLER: M. Stewart/A. Taylor

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

TOTAL DEPTH OF WELL: 43.00 Feet

DEPTH TO WATER: 27.29 Feet

HEIGHT OF WATER COLUMN: 15.71 Feet

WELL DIAMETER: 2.0 Inch

7.7 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	2.6	18.1	3.35	7.79			
	5.2	18.6	5.37	7.07			
	7.8	18.5	5.71	7.08			
7.8	: Total volume purged						

SAMPLE NO.: MW-3

ANALYSES: BTEX (8260)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-4**

SITE NAME: J 4 2 DATE: 12/3/2008

PROJECT NO. _____ SAMPLER: M. Stewart/A. Taylor

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☑ Alconox ☑ Distilled Water Rinse ☐ Other: _____

TOTAL DEPTH OF WELL: 38.12 Feet

DEPTH TO WATER: 27.88 Feet

HEIGHT OF WATER COLUMN: 10.24 Feet

WELL DIAMETER: 2.0 Inch

5.0 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m* S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	2.5	18.1	3.82	7.11			Begin Hand Bailing
	5.0	18.3	3.65	7.16			
	7.5	18.4	3.58	7.17			
7.5	: Total volume purged						

SAMPLE NO.: MW-4

ANALYSES: BTEX (8260)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-6**

SITE NAME: J 4 2 DATE: 12/3/2008

PROJECT NO. _____ SAMPLER: M. Stewart/A. Taylor

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

TOTAL DEPTH OF WELL: 34.35 Feet
DEPTH TO WATER: 28.39 Feet
HEIGHT OF WATER COLUMN: 5.96 Feet
WELL DIAMETER: 2.0 Inch

2.9 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.7	18.4	1.91	7.24			
	3.4	18.9	1.83	7.21			
1230	5.1	18.8	1.82	7.21			
5.1	: Total volume purged						

SAMPLE NO.: MW-6

ANALYSES: BTEX (8260)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-7**

SITE NAME: J 4 2 DATE: 12/3/2008

PROJECT NO. _____ SAMPLER: M. Stewart/A. Taylor

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

TOTAL DEPTH OF WELL: 39.45 Feet
DEPTH TO WATER: 30.89 Feet
HEIGHT OF WATER COLUMN: 8.56 Feet
WELL DIAMETER: 2.0 Inch

4.2 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.5	18.1	3.4	7.12			Begin Hand Bailing
	3.0	18.8	3.51	7.11			
1210	4.5	18.7	3.54	7.15			
4.5	: Total volume purged						

SAMPLE NO.: MW-7

ANALYSES: BTEX (8260)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-8**

SITE NAME: J 4 2 DATE: 12/3/2008

PROJECT NO. SAMPLER: M. Stewart/A. Taylor

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type:

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other:

TOTAL DEPTH OF WELL: 38.32 Feet
DEPTH TO WATER: 29.37 Feet
HEIGHT OF WATER COLUMN: 8.95 Feet
WELL DIAMETER: 2.0 Inch

4.4 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	1.5	18.3	2.11	7.23			Began Hand Bailing
	3.0	18.0	2.04	7.20			
1150	4.5	18.4	2.03	7.20			
4.5	: Total volume purged						

SAMPLE NO.: MW-8

ANALYSES: BTEX (8260)

COMMENTS:

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/14/09

Technical Report for

DCP Midstream, LLC

AECCOLI: DEFS J-4-2

Accutest Job Number: T26015

Sampling Date: 03/11/09

Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

Total number of pages in report: **29**

ACCREDITED IN ACCORDANCE WITH nelac

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

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: William Reeves 713-271-4700

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

Test results relate only to samples analyzed.

Table of Contents

Sections: 1 2 3 4 5

-1-

Sample Summary

DCP Midstream, LLC

Job No: T26015

AECCOLI: DEFS J-4-2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
T26015-1	03/11/09	13:00	MS	03/13/09	AQ	Ground Water	MW-1
T26015-2	03/11/09	13:20	MS	03/13/09	AQ	Ground Water	MW-3
T26015-3	03/11/09	12:30	MS	03/13/09	AQ	Ground Water	MW-6
T26015-4	03/11/09	12:10	MS	03/13/09	AQ	Ground Water	MW-7
T26015-4D	03/11/09	12:10	MS	03/13/09	AQ	Water Dup/MSD	MW-7 MSD
T26015-4S	03/11/09	12:10	MS	03/13/09	AQ	Water Matrix Spike	MW-7 MS
T26015-5	03/11/09	11:50	MS	03/13/09	AQ	Ground Water	MW-8
T26015-6	03/11/09	00:00	MS	03/13/09	AQ	Ground Water	DUP
T26015-7	03/11/09	00:00	MS	03/13/09	AQ	Trip Blank Water	TRIP BLANK

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	T26015-1	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F014788.D	1	03/16/09	RR	n/a	n/a	VF3321
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	103%		79-122%
17060-07-0	1,2-Dichloroethane-D4	106%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	108%		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

2.1

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	T26015-1	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
		Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1390	100	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	T26015-2	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F014789.D	1	03/16/09	RR	n/a	n/a	VF3321
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	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	106%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	109%		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

Client Sample ID:	MW-3		
Lab Sample ID:	T26015-2	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
		Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2240	100	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Accutest LabLink@36323 13:56 14-Apr-2009

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T26015-3	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F014784.D	1	03/16/09	RR	n/a	n/a	VF3321
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	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	103%		87-119%
460-00-4	4-Bromofluorobenzene	108%		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

Accutest LabLink@36323 13:56 14-Apr-2009

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	T26015-3	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
		Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	363	10	mg/l	10	03/23/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	T26015-4	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F014785.D	1	03/16/09	RR	n/a	n/a	VF3321
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	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	103%		87-119%
460-00-4	4-Bromofluorobenzene	108%		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

Client Sample ID:	MW-7		
Lab Sample ID:	T26015-4	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
		Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	944	100	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	T26015-5	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F014790.D	1	03/16/09	RR	n/a	n/a	VF3321
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	105%		79-122%
17060-07-0	1,2-Dichloroethane-D4	111%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	108%		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

2.5 2

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	T26015-5	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
		Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	417	10	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T26015-6	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F014791.D	1	03/16/09	RR	n/a	n/a	VF3321
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	105%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	111%		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

Client Sample ID:	DUP		
Lab Sample ID:	T26015-6	Date Sampled:	03/11/09
Matrix:	AQ - Ground Water	Date Received:	03/13/09
		Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	3480	100	mg/l	100	03/23/09 08:00	KD	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T26015-7	Date Sampled:	03/11/09
Matrix:	AQ - Trip Blank Water	Date Received:	03/13/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DEFS J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F014783.D	1	03/16/09	RR	n/a	n/a	VF3321
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	107%		79-122%
17060-07-0	1,2-Dichloroethane-D4	109%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	112%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories
10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page ___ of

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # T26015

Client / Reporting Information

Company Name: DCP Midstream
Project Contact: Stephen Weathers | E-Mail: SWWeathers@dcpmidstream.com
Address: 370 Seventeenth Street, Suite 2500
City: Denver | State: CO | Zip: 80202
Phone No.: 303-605-1718 | Fax No.:
Samplers's Name: M. Stewart / A. Taylor AEC

Project Information

Project Name / No.: DCP J-4-2
Bill to: Same | Invoice Attn.:
Address:
City: | State: | Zip:
Phone No.: | Fax No.:
Client Purchase Order #:

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Wastewater; SO - Soil; SL - Sludge; OI - Oil; LIQ - Liquid; SOL - Other Solid

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles: HCl	H2SO4	HNO3	NaOH	ZnOAc	NaHSO4	MeOH	None	BTEX 8260B	Chlorides	LAB USE ONLY
1	MW-1	3/11/09	1100	GW	1+3	3							1	X	X	
	MW-2	"	"	GW	1+3	3							1	X	X	
2	MW-3		1120	GW	1+3	3							1	X	X	
	MW-4	"	"	GW	1+3	3							1	X	X	
3	MW-5		1230	GW	1+3	3							1	X	X	
4	MW-7		1210	GW	1+3	3							1	X	X	
5	MW-8		1150	GW	1+3	3							1	X	X	
6	DUP		0000	GW	1+3	3							1	X	X	
7	Trip Blank		Lab	WTB	Lab	3								X		
4	MW-7 MS/MSD		1210	GW	1+3	3							1	X	X	

Turnaround Time (Business days)

- [ ] 10 Day STANDARD — Approved By/ Date:
- [X] 7 Day
- [ ] 4 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Real time analytical data available via Lablink

Data Deliverable Information

- [ ] Commercial "A"
- [X] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Data Package
- [ ] TRRP-13
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results & Standard QC

Comments / Remarks

# of bottles = 4
No sample for MW-2 & MW-4

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1			1	2	3/12 9:30	2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable ☐	On Ice X Cooler Temp. 1.0 °C

3.1 (23)

T26015: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T26015 Client: DCP Midstream Date/Time Received: 3-13-9 910

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

Cooler Temps: #1: 1.0 #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 rcvd 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:

TECHNICIAN SIGNATURE/DATE: [signature] 3-13-9

INFORMATION AND SAMPLE LABELING VERIFIED BY: VAL

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

I:\mwalker\forms\samplemanagement

3.1

T26015: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T26015 DATE/TIME RECEIVED: 3-13-9 930

CLIENT: DCP Midstream INITIALS: EILE

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW-1	3-11-9 1100	W	500	1	I-II	(1) 2 3 4 5 6 7 8	<2	>12
		-1		"	40ml	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	2	-3	3-11-9 1200	W	500ml	1	I-II	(1) 2 3 4 5 6 7 8	<2	>12
		-3		"	40ml	2-4	VR	1 (3) 3 4 5 6 7 8	<2	>12
	3	-6	3-11-9 1230	W	500	1	I-II	(1) 2 3 4 5 6 7 8	<2	>12
		-6			40ml	2-4	VR	1 (3) 3 4 5 6 7 8	<2	>12
	4	-7 MS/MSD	3-11-9 1210	W	500	1-2	I-II	(1) 2 3 4 5 6 7 8	<2	>12
		-7 " "			40ml	3-8	VR	1 (4) 3 4 5 6 7 8	<2	>12
	5	-8	3-11-9 1150	W	500ml	1	I-II	(1) 2 3 4 5 6 7 8	<2	>12
		-8			40ml	2-4	VR	1 (2) 3 4 5 6 7 8	<2	>12
	6	D-P	3-11-9 —	W	500	1	I-II	(1) 2 3 4 5 6 7 8	<2	>12
					40ml	2-4	VR	1 (3) 3 4 5 6 7 8	<2	>12
	7	Trip Blank	—	—	40ml	1-2	VR	1 (3) 3 4 5 6 7 8	<2	>12
~~EC-9~~		~~MW-1d~~	~~3-11-9 1325~~	W	40ml	1-3	VR	1 (3) 3 4 5 6 7 8	<2	>12
EC-9		MW-2	1330					1 (3) 3 4 5 6 7 8	<2	>12
~~EC-10~~		~~Duplicate~~	00					1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
			EILE 3-13-9					1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

3.1 (3)

T26015: 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: T26015
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DEFS J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3321-MB	F014782.D	1	03/16/09	RR	n/a	n/a	VF3321

The QC reported here applies to the following samples: Method: SW846 8260B

T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6, T26015-7

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%	79-122%
17060-07-0	1,2-Dichloroethane-D4	107%	75-121%
2037-26-5	Toluene-D8	107%	87-119%
460-00-4	4-Bromofluorobenzene	113%	80-133%

Blank Spike Summary

Job Number: T26015
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DEFS J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3321-BS	F014780.D	1	03/16/09	RR	n/a	n/a	VF3321

The QC reported here applies to the following samples: Method: SW846 8260B

T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6, T26015-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.2	93	76-118
100-41-4	Ethylbenzene	25	22.1	88	75-112
108-88-3	Toluene	25	22.1	88	77-114
1330-20-7	Xylene (total)	75	66.9	89	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	98%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T26015
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DEFS J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T26015-4MS	F014786.D	1	03/16/09	RR	n/a	n/a	VF3321
T26015-4MSD	F014787.D	1	03/16/09	RR	n/a	n/a	VF3321
T26015-4	F014785.D	1	03/16/09	RR	n/a	n/a	VF3321

The QC reported here applies to the following samples: Method: SW846 8260B

T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6, T26015-7

CAS No.	Compound	T26015-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	22.3	89	21.1	84	6	76-118/16
100-41-4	Ethylbenzene	ND		25	21.4	86	20.4	82	5	75-112/12
108-88-3	Toluene	ND		25	21.0	84	19.9	80	5	77-114/12
1330-20-7	Xylene (total)	ND		75	64.4	86	61.0	81	5	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T26015-4	Limits
1868-53-7	Dibromofluoromethane	105%	105%	104%	79-122%
17060-07-0	1,2-Dichloroethane-D4	113%	113%	110%	75-121%
2037-26-5	Toluene-D8	102%	103%	103%	87-119%
460-00-4	4-Bromofluorobenzene	99%	100%	108%	80-133%

General Chemistry

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: T26015
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DEFS J-4-2

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP6193/GN16323	1.0	0.0	mg/l	1000	981	98.1	92-107%

Associated Samples:
Batch GP6193: T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6
(*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T26015
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DEFS J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP6193/GN16323	T26015-4	mg/l	944	944	0.0	0-5%

Associated Samples:
Batch GP6193: T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6
(*) Outside of QC limits

5.2

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T26015
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DEFS J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP6193/GN16323	T26015-4	mg/l	944	1000	1890	94.4	81-119%

Associated Samples:
Batch GP6193: T26015-1, T26015-2, T26015-3, T26015-4, T26015-5, T26015-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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