

AP-55

1st QTR GW results

DATE:

August 31, 2010



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

RECEIVED OCD

2010 SEP -7 P 1:14

August 31, 2010

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

**RE: 1st Quarter 2010 Groundwater Results
DCP Midstream, LP RR Ext. Pipeline Release (AP #55)
Unit C, Section 19, Township 20 South, Range 37 East
Lea County, New Mexico**

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 1st Quarter 2010 Groundwater Results for the DCP RR Ext. Pipeline Release located in Lea County, New Mexico (Unit C, Section 19, Township 20 South, Range 37 East).

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

Sincerely

DCP Midstream, LP

Stephen Weathers, PG
Principal Environmental Specialist

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



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

August 31, 2010

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

**RE: 1st Quarter 2010 Groundwater Results
DCP Midstream, LP RR Ext. Pipeline Release (AP #55)
Unit C, Section 19, Township 20 South, Range 37 East
Lea County, New Mexico**

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 1st Quarter 2010 Groundwater Results for the DCP RR Ext. Pipeline Release located in Lea County, New Mexico (Unit C, Section 19, Township 20 South, Range 37 East).

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

Sincerely

DCP Midstream, LP

A handwritten signature in black ink, appearing to read 'Stephen Weathers', followed by a horizontal line.

Stephen Weathers, PG
Principal Environmental Specialist

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

August 3, 2010
Mr. Stephen Weathers
DCP Midstream, LP
370 17th Street, Suite 2500
Denver, CO 80202

Re: First Quarter 2010 Groundwater Monitoring Report for the
DCP Midstream RR Ext Pipeline Release
Unit C, Section 19 Township 20 South, Range 37 East (AP #55)

Dear Mr. Weathers:

This letter report summarizes the first quarter 2010 groundwater monitoring event that was completed on March 22, 2010 at the DCP Midstream (DCP) RR Ext Site (Figure 1). The approximate site coordinates are 32.5624 north, 103.2923 west. The well locations are shown on Figure 2. The construction information for the wells is summarized in Table 1.

The fluid levels were first measured at each well to calculate the casing volumes. Wells MW-4 and MW-5 contained free phase hydrocarbon (FPH) so they were not purged and sampled.

The remaining six wells were first purged to equilibration using dedicated bailers based on the field parameters of temperature, pH and conductivity. They were then sampled for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method SW846 8260B and for chlorides using Method SM 4500 CL C. A field duplicate from MW-1 and a matrix spike/matrix spike duplicate (MS/MSD) from MW-6 were also collected to evaluate quality control. All affected purge water was disposed of at the DCP Linam Ranch facility.

The water gauging data are summarized in Table 2. Well hydrographs are plotted on Figure 3. Figure 3 indicates that the water table increased across the site at a relatively consistent rate.

The measured water table elevations were also used to generate a groundwater contour map using the Surfer program with a kriging option. This map is included as Figure 4. Groundwater appears to flow almost due south down gradient of MW-5. The generally-southward groundwater flow pattern is similar to that exhibited in the past.

The quality control evaluation can be summarized as follows:

- The method blanks were all within their control limits.
- The blank spikes were all within their control limits.
- The individual sample surrogates results were within the method ranges.
- The matrix spike and matrix spike duplicate values from MW-6 were within the control ranges.
- There was substantial disagreement between the MW-1 primary and duplicate samples with the ethylbenzene and xylene concentrations differing by an order of magnitude.

The above results indicate that the data are suitable for evaluation for groundwater monitoring purposes. The primary and duplicate samples will be checked against the historic data assess whether the primary or duplicate sample appears to be more accurate.

The sampling data are summarized in Table 3. The measured field parameters and a copy of the laboratory report are attached. The New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are included at the top of Table 3. There were no BTEX detections in wells MW-6, MW-7 and MW-8. Wells MW-1, MW-2 and MW-3 exceeded the benzene standard. Well MW-3 also exceeded the toluene, ethylbenzene and xylenes standards.

Figure 5 shows the benzene concentrations for the sampling event. The extent of benzene effects is delineated to the southeast and east by MW-6 and MW-7. Additional control is necessary to delineate the extent of the FPH now present in MW-4 and MW-5. A characterization program is scheduled for the second quarter of 2010.

The BTEX data collected for this project are summarized in Table 4. Figure 6 graphs the benzene concentration verses time for MW-1, MW-2, MW-3 and MW-5. The concentrations in MW-1 and MW-3 both declined, and they appear to be exhibiting a cyclical pattern. The concentration in MW-2 appears to be relatively consistent. The ethylbenzene and xylene data for MW-1 indicate that the primary sample results are probably more representative.

The concentrations in MW-8 have declined over the duration of the project to the point where the BTEX constituents were undetected. This trend indicates that the dissolved-phase plume is contracting on its up-gradient boundary.

Well MW-4 never contained FPH until September 2009. FPH has now been present for three consecutive quarters. FPH is now present in MW-5 almost 2 years after it was installed.

The samples were also submitted for chlorides analysis. Chloride data are summarized in Table 5. Figure 7 shows the chlorides concentrations for this event. The laboratory measured concentrations between 700 and 850 mg/l in all of the samples but one.

The chloride concentrations verses time are plotted on Figure 8. The chloride concentrations were measured at anomalously high values for all wells except MW-3. AEC compared the chloride data to the specific conductance measurements, and that data is tabulated below.

Well	Chlorides (mg/l)	Specific Conductance (mmhos)
MW-1	750	2.44
MW-2	700	1.47
MW-3	440	1.95
MW-6	700	1.84
MW-7	750	1.89
MW-8	800	2.39

The well-defined pattern that is generally present between ions and specific conductance is not present. AEC concludes that the March 2010 chloride values are probably not representative of the groundwater conditions based upon this lack of correlation and relatively stability prior to this event.

RECOMMENDATIONS

The fact that FPH is now present in both MW-4 and MW-5 indicates that some type of FPH source that is not related to the remediated spill is probably present in the area. Additional characterization is already scheduled for the second quarter of 2010.

The next sampling event will be completed during the second quarter of 2010. Do not hesitate to contact me if you have any questions or comments on this document.

Respectfully Submitted,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

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

attachments

TABLES

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

Well	Date Installed	Stickup	Total Depth (ground)	Screen Interval (ground)	Sand Interval
MW-1	3/08	2.06	37.5	17.5-37.5	16-37.5
MW-2	3/08	2.41	37.5	17.5-37.5	16-37.5
MW-3	3/08	2.53	37.5	17.5-37.5	16-37.5
MW-4	3/08	3.16	37.5	17.5-37.5	16-37.5
MW-5	3/08	2.15	37.5	17.5-37.5	16-37.5
MW-6	6/08	2.18	37.5	17.5-37.5	16-37.5
MW-7	6/08	2.36	37.5	17.5-37.5	16-37.5
MW-8	6/08	2.76	37.5	17.5-37.5	16-37.5

Notes: Units are feet
 All wells are 2-inch diameter
 Wells were grouted to the surface with hydrated bentonite pellets and completed with above-ground well protectors

Table 2 - Summary of First Quarter 2010 Fluids Measurement Data

Well	Depth to Water	Depth to Product	Water Table Elevation
MW-1	29.97		3504.60
MW-2	30.76		3504.42
MW-3	32.05		3504.52
MW-4	32.36	30.65	3504.12
MW-5	31.98	31.71	3504.14
MW-6	32.03		3504.13
MW-7	32.76		3504.33
MW-8	31.65		3504.76

Units are Feet

Table 3 - RR Ext First Quarter 2010 Groundwater Sampling Results

Well	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Chlorides
NMWQCC Standards	0.010	0.75	0.75	0.62	250*
MW-1	0.726	0.107	0.0879	0.0278J	750
MW-1 DUP	0.431	0.714	0.64	0.201	850
MW-2	23.8	0.71	0.529	<1.2	700
MW-3	8.43	9.14	1.01	2.71	440
MW-4	Not sampled because free phase hydrocarbons were present				
MW-5	Not sampled because free phase hydrocarbons were present				
MW-6	<0.002	<0.002	<0.002	<0.006	700
MW-7	<0.002	<0.002	<0.002	<0.006	750
MW-8	<0.002	<0.002	<0.002	<0.006	800

Notes: Units mg/l
 NMWQCC Standards New Mexico Water Quality Control Commission Groundwater Standards
 Bold values exceed the New Mexico Water Quality Control Commission Groundwater Standards
 * Chlorides is a secondary (non-health based) standard.

Table 4 - RR Ext BTEX Groundwater Monitoring Results Summary

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards		.010	0.75	0.75	0.62
MW-1	3/08	1.4	0.948	0.0395	0.128
	6/08	2.75	2.17	0.054	0.232
	9/08	1.1	0.845	0.0375	0.131
Duplicate	9/08	1.22	0.883	0.0506	0.197
	12/08	0.869	0.581	0.0385	0.0709
	3/09	0.288	0.107	0.0149	0.0395
	5/09	1.38	0.175	0.0705	0.065
	9/09	0.267	0.0332	0.024	0.0078
	12/09	0.819	0.0267	0.088	0.012
	3/10	0.726	0.107	0.0879	0.0278J
Duplicate	3/10	0.431	0.714	0.64	0.201
MW-2	3/08	8.98	6.58	0.135J	0.765
Duplicate	3/08	10	7	0.156J	0.93
	6/08	24.3	18.5	0.319	2.58
Duplicate	6/08	23.5	19.2	0.309	2.36
	9/08	21.7	9.79	0.443	4.25
	12/08	Not sampled: Remediation activities			
	3/09	23.7	2.34	0.583	1.25
Duplicate	3/09	4.07	1.91	0.268 J	0.49 J
	5/09	32.7	1.31	0.791	1.69
Duplicate	5/09	30.7	1.43	0.907	2.14
	9/09	29.3	0.771	0.491	0.371J
	12/09	28.5	0.347	0.57	0.177J
Duplicate	12/09	31.8	0.397J	0.829	0.193
	3/10	23.8	0.71	0.529	<1.2
MW-3	3/08	0.759	0.849	0.0355	0.0786
	6/08	6.18	9.46	0.287	1.23
	9/08	2.45	3.62	0.145	1.14
	12/08	0.761	0.938	0.0492	0.158
	3/09	4.03	2.83	0.18 J	0.61
	5/09	14.7	12.6	0.808	1.64
	9/09	5.5	1.09	0.271	<0.006
	12/09	13.1	9.08	1.2	2.87
	3/10	8.43	9.14	1.01	2.71
MW-4	3/08	0.0102	0.0093	<0.002	0.0023J
	6/08	0.0439	0.0256	0.0068	0.0147
	9/08	0.514	0.443	0.0203	0.125
	12/08	1.32	1.35	0.0812	0.239J
	3/09	3.61	3.4	0.164 J	0.831
	5/09	4.7	2.94	0.428	1.03
Free Phase Hydrocarbons Since Third Quarter 2009					

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

Table 4 - RR Ext BTEX Groundwater Monitoring Results Summary (continued)

Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards		.010	0.75	0.75	0.62
MW-5	3/08	0.0019J	0.0012J	<0.002	<0.006
	6/08	0.0037	0.0037	<0.002	<0.006
	9/08	0.0038	0.0037	<0.002	<0.006
	12/08	0.0031	0.004	<0.002	<0.006
	3/09	0.0067	0.0074	<0.002	<0.006
	5/09	0.0064	0.0089	0.0025	0.0045 J
	9/09	0.0082	0.0132	0.00066J	<0.006
	12/09	0.0096	0.0155	0.0013J	0.0021J
	3/10	Free Phase Hydrocarbons			
MW-6	6/08	<0.002	<0.002	<0.002	<0.006
	9/08	<0.002	<0.002	<0.002	<0.006
	12/08	<0.002	<0.002	<0.002	<0.006
	3/09	<0.002	<0.002	<0.002	<0.006
	5/09	<0.002	<0.002	<0.002	<0.006
	9/09	<0.002	<0.002	<0.002	<0.006
	12/09	<0.002	<0.002	<0.002	<0.006
	3/10	<0.002	<0.002	<0.002	<0.006
MW-7	6/08	<0.002	<0.002	<0.002	<0.006
	9/08	<0.002	<0.002	<0.002	<0.006
	12/08	<0.002	<0.002	<0.002	<0.006
	3/09	<0.002	<0.002	<0.002	<0.006
	5/09	<0.002	<0.002	<0.002	<0.006
	9/09	<0.002	<0.002	<0.002	<0.006
	12/09	<0.002	<0.002	<0.002	<0.006
	3/10	<0.002	<0.002	<0.002	<0.006
MW-8	6/08	0.0384	0.0255	0.00049J	0.0016J
	9/08	0.0301	0.0161	<0.002	0.002 J
	12/08	0.0233	0.011	<0.002	<0.006
Dup	12/08	0.0122	0.006	<0.002	<0.006
	3/09	0.0218	0.0066	<0.002	<0.006
	5/09	0.0098	0.0049	<0.002	<0.006
	9/09	<0.002	<0.002	<0.002	<0.006
Dup	9/09	<0.4	<0.4	<0.4	<1.2
	12/09	<0.002	<0.002	<0.002	<0.006
	3/10	<0.002	<0.002	<0.002	<0.006

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

Table 5 - RR Ext Chlorides Groundwater Monitoring Results Summary

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

Notes: Units are mg/l
 Duplicate values averaged together
 FPH free phase hydrocarbons present

FIGURES

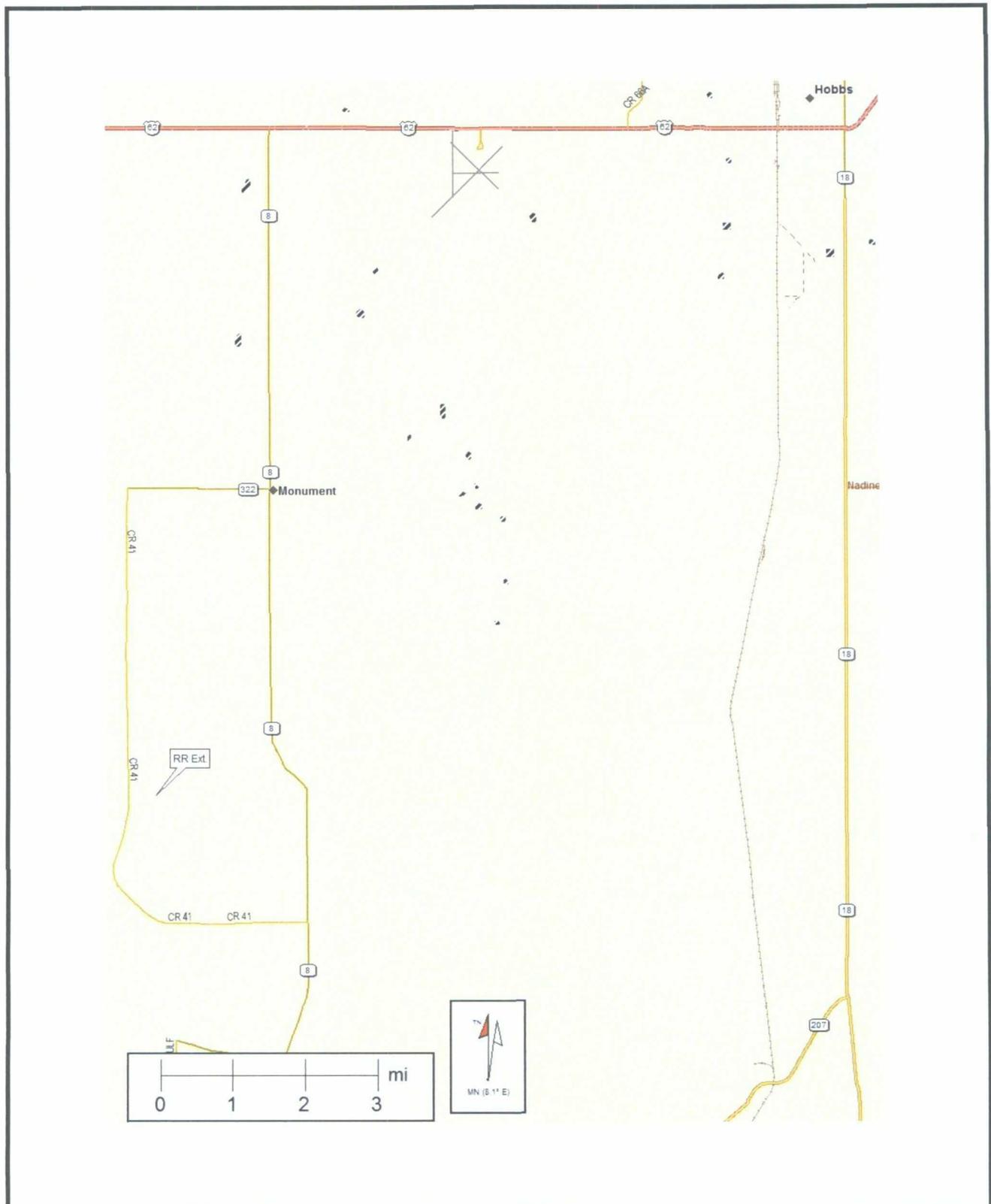


Figure 1 – Site Location
RR Ext. AP #55



DRAWN BY: MHS
REVISED:
DATE: 5/06

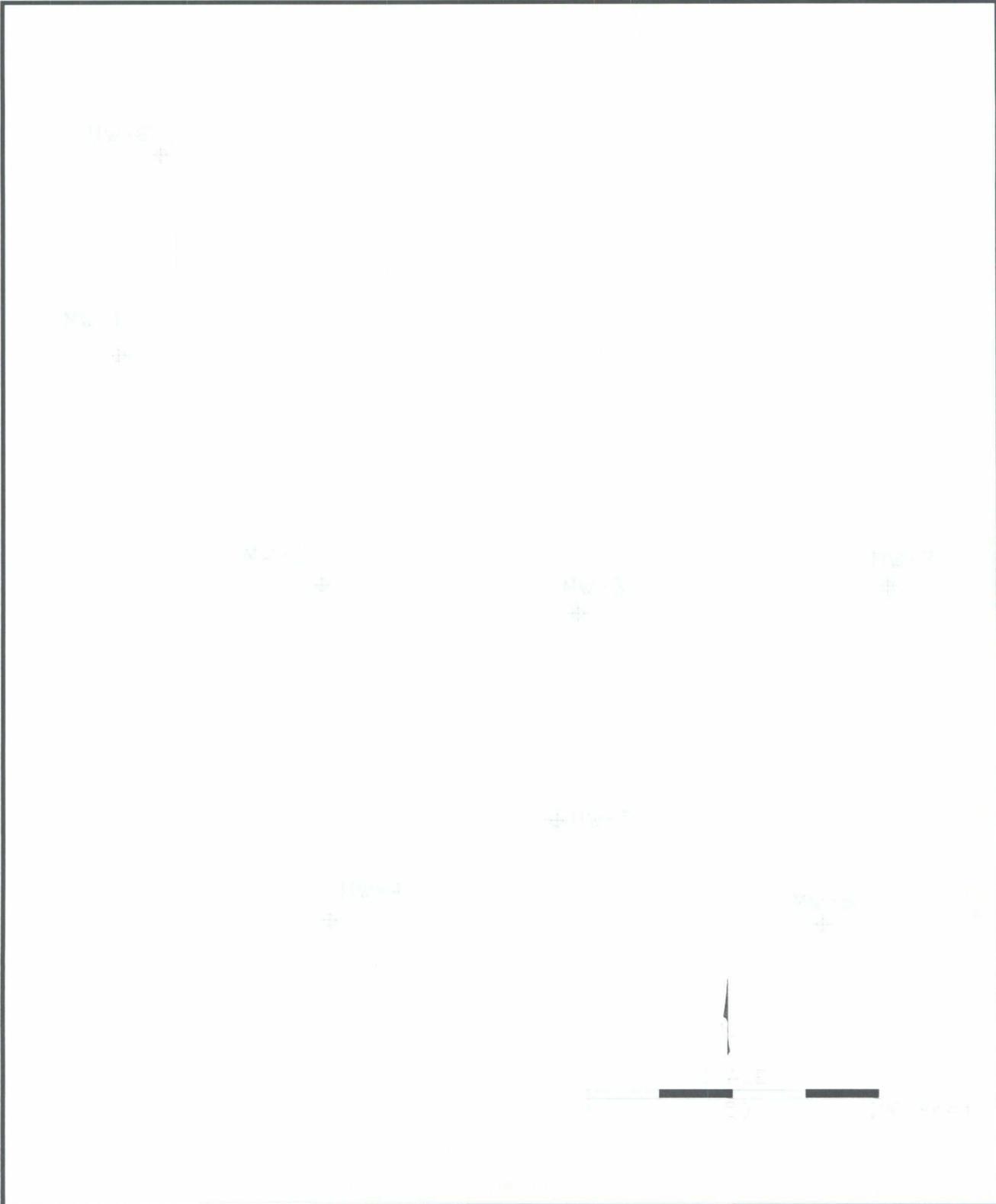


Figure 2 – Monitoring Well Locations
 RR Ext. AP #55



DRAWN BY: MHS
REVISED:
DATE: 1/09

3505.5

3505

3504.5

3504

3503.5

Water Table Elevation (feet)

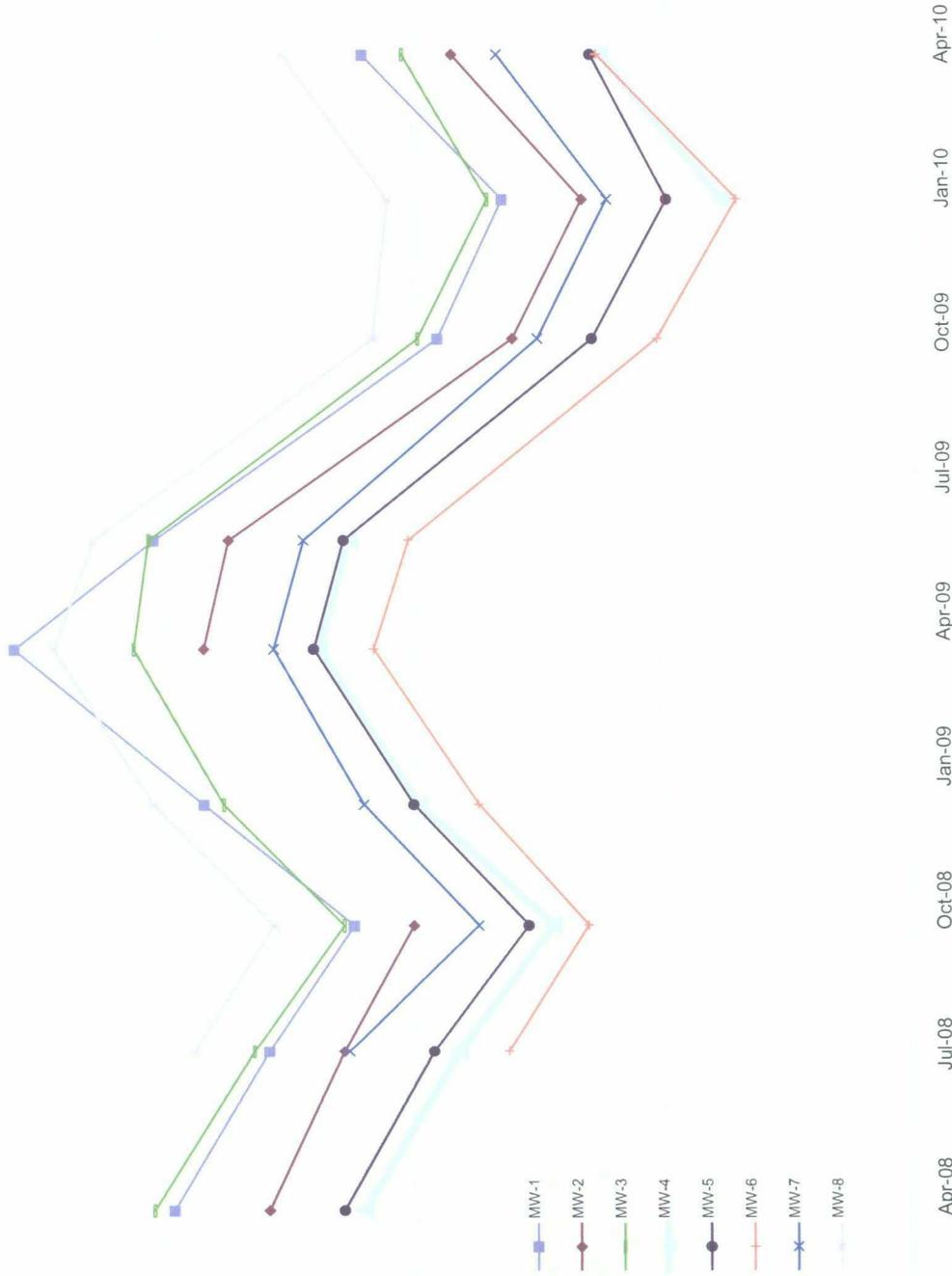


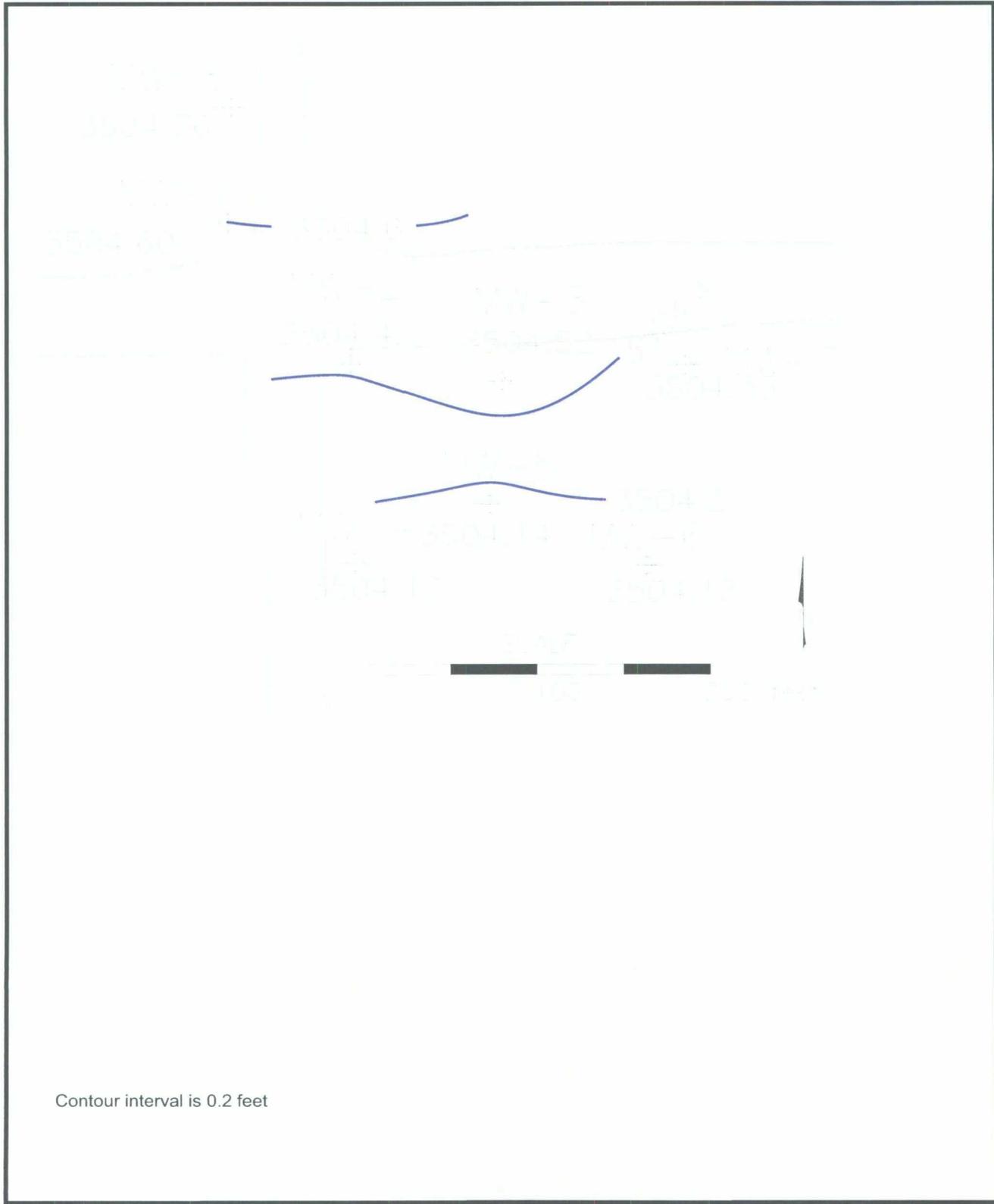
Figure 3 – Monitoring Well Hydrographs

RR EXT AP #55

DRAWN BY: MHS

DATE: 7/10





Contour interval is 0.2 feet

Figure 4 – First Quarter 2010 Water Table Contours
RR Ext. AP #55



DRAWN BY: MHS
REVISED:
DATE: 7/10



Units are mg/l
 FPH: Not sampled because of free phase hydrocarbons

Figure 5 – First Quarter 2010 Benzene Concentrations
 RR Ext. AP #55



DRAWN BY: MHS
REVISED:
DATE: 7/10

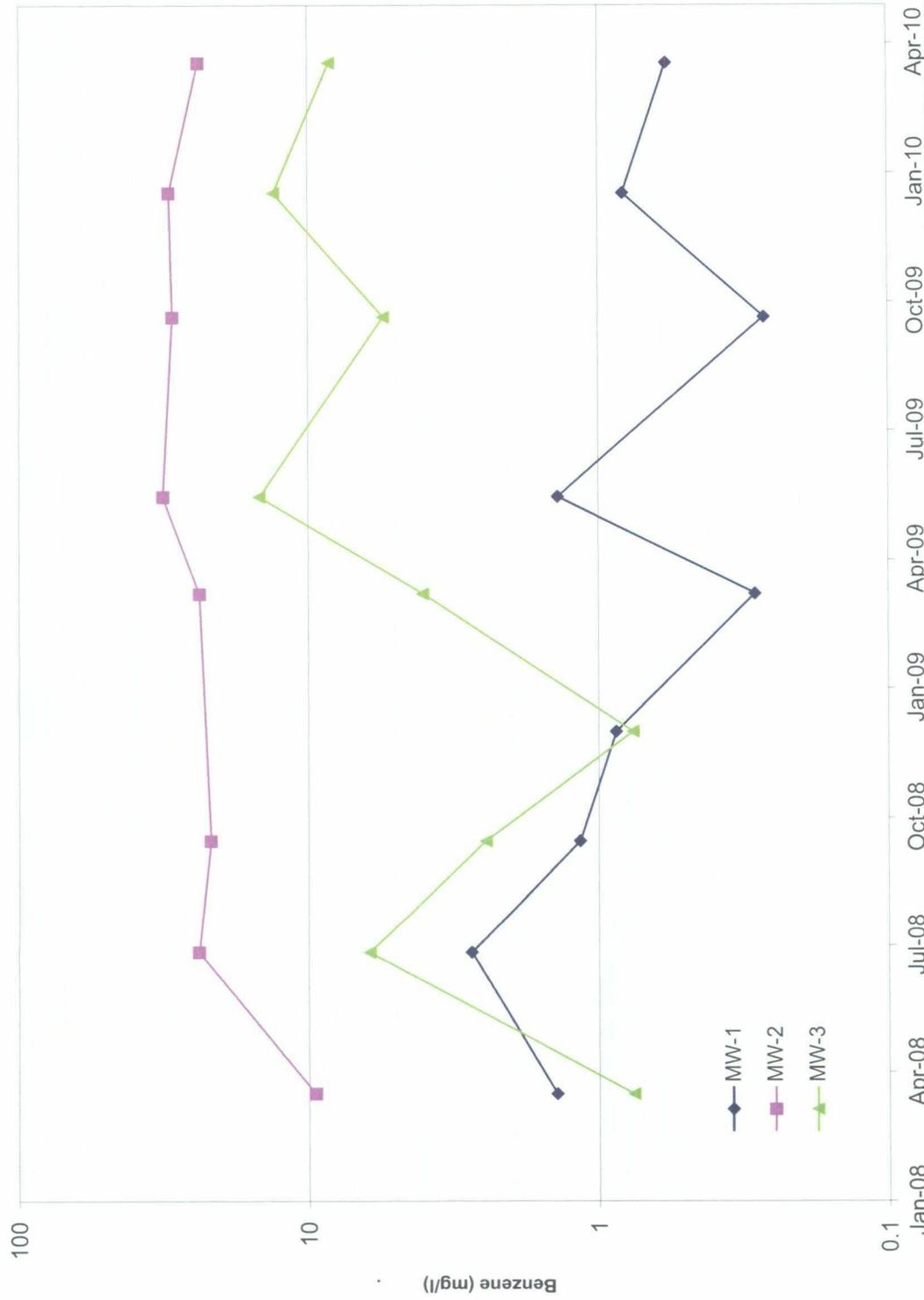


Figure 6 – Benzene Concentrations Verses Time

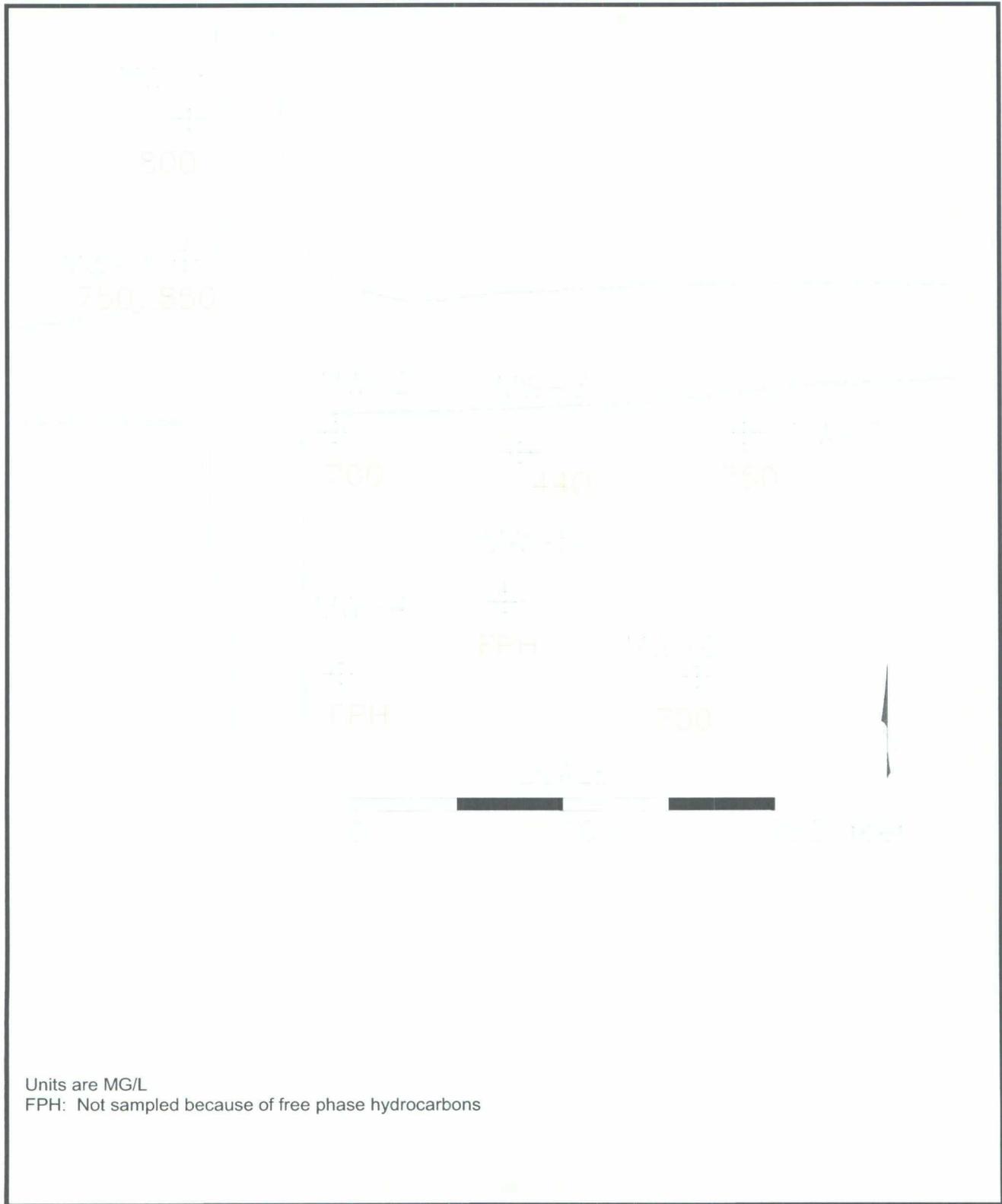
RR EXT AP #55

RR EXT AP #55

dcp
Midstream.

DRAWN BY: MHS

DATE: 7/10



Units are MG/L
 FPH: Not sampled because of free phase hydrocarbons

Figure 7 – First Quarter 2010 Chlorides Concentrations
 RR Ext. AP #55



DRAWN BY: MHS
REVISED:
DATE: 7/10

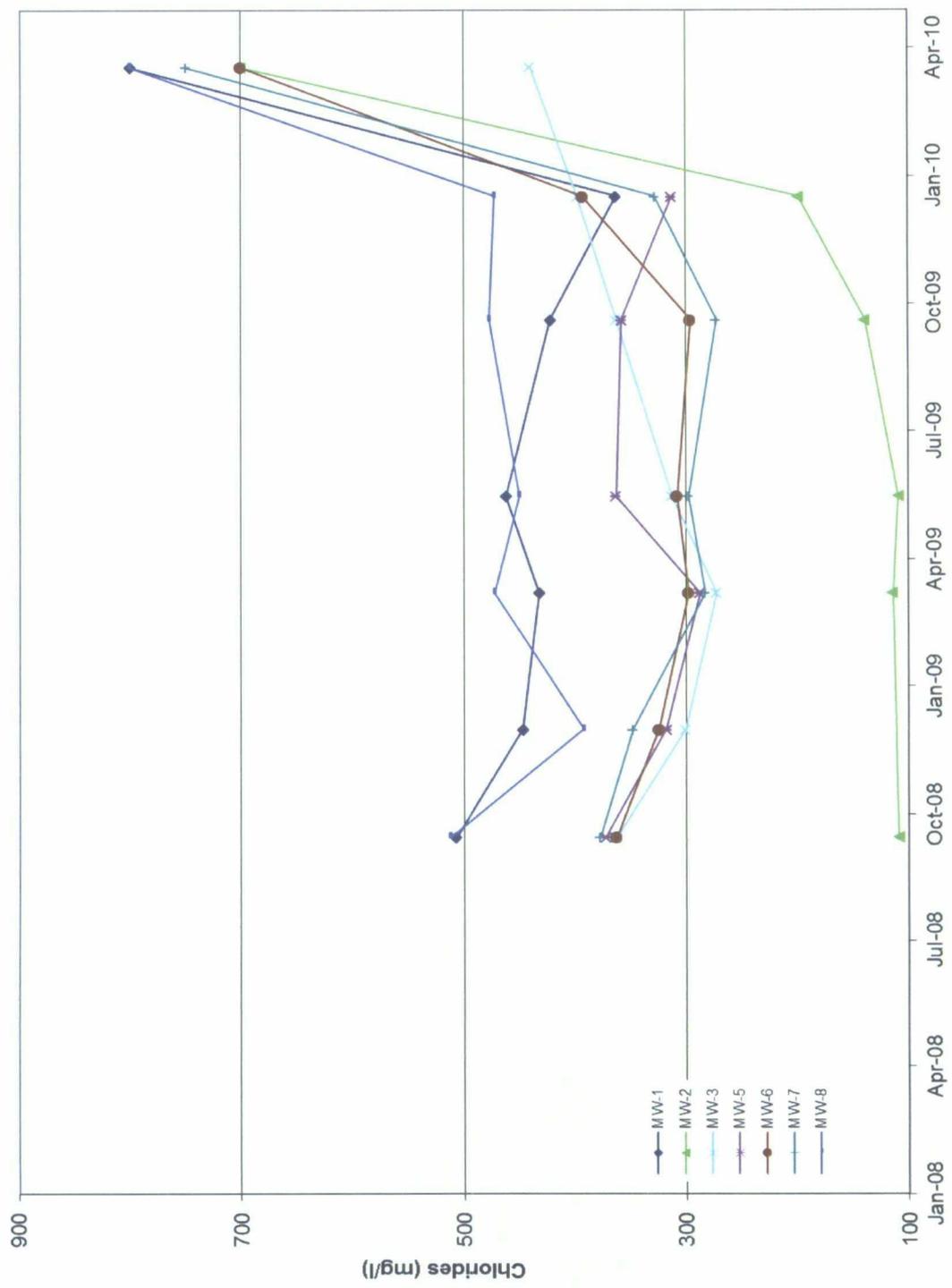


Figure 8 – Chloride Concentrations Verses Time

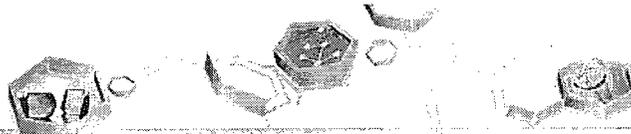
RR EXT AP #55



DRAWN BY: MHS
DATE: 7/10

ATTACHMENT

WELL SAMPLING DATA AND
ANALYTICAL LABORATORY REPORT



04/14/10

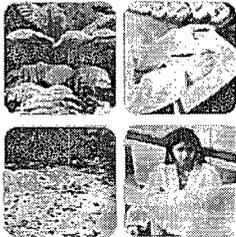
Technical Report for

DCP Midstream, LLC

AECCOLI: DCP Midstream RR Ext

Accutest Job Number: T49812

Sampling Date: 03/22/10



Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

Total number of pages in report: 36



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 R Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

Sections:



-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: T49812-1: MW-1	5
2.2: T49812-2: MW-2	7
2.3: T49812-3: MW-3	9
2.4: T49812-4: MW-6	11
2.5: T49812-5: MW-7	13
2.6: T49812-6: MW-8	15
2.7: T49812-7: DUP	17
Section 3: Misc. Forms	19
3.1: Chain of Custody	20
Section 4: GC/MS Volatiles - QC Data Summaries	23
4.1: Method Blank Summary	24
4.2: Blank Spike Summary	27
4.3: Matrix Spike/Matrix Spike Duplicate Summary	30
Section 5: General Chemistry - QC Data Summaries	33
5.1: Method Blank and Spike Results Summary	34
5.2: Duplicate Results Summary	35
5.3: Matrix Spike Results Summary	36

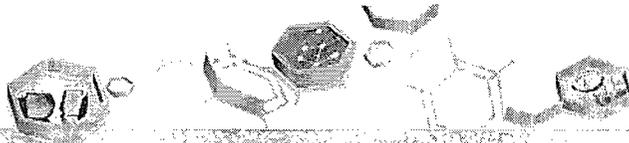
Sample Summary

DCP Midstream, LLC

Job No: T49812

AECCOLI: DCP Midstream RR Ext

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T49812-1	03/22/10	17:35 MS	03/25/10	AQ	Ground Water	MW-1
T49812-2	03/22/10	15:25 MS	03/25/10	AQ	Ground Water	MW-2
T49812-3	03/22/10	17:15 MS	03/25/10	AQ	Ground Water	MW-3
T49812-4	03/22/10	16:40 MS	03/25/10	AQ	Ground Water	MW-6
T49812-4D	03/22/10	16:40 MS	03/25/10	AQ	Water Dup/MSD	MW-6 MSD
T49812-4S	03/22/10	16:40 MS	03/25/10	AQ	Water Matrix Spike	MW-6 MS
T49812-5	03/22/10	16:45 MS	03/25/10	AQ	Ground Water	MW-7
T49812-6	03/22/10	17:40 MS	03/25/10	AQ	Ground Water	MW-8
T49812-7	03/22/10	16:40 MS	03/25/10	AQ	Ground Water	DUP



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1	Date Sampled: 03/22/10
Lab Sample ID: T49812-1	Date Received: 03/25/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOLI: DCP Midstream RR Ext	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F024821.D	10	04/01/10	RR	n/a	n/a	VF3805
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	0.726	0.020	0.0050	mg/l	
108-88-3	Toluene	0.107	0.020	0.0043	mg/l	
100-41-4	Ethylbenzene	0.0879	0.020	0.0055	mg/l	
1330-20-7	Xylene (total)	0.0278	0.060	0.017	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	113%		87-119%
460-00-4	4-Bromofluorobenzene	125%		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-1	Date Sampled:	03/22/10
Lab Sample ID:	T49812-1	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	750	100	mg/l	100	04/05/10 10:45	SS	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-2 Lab Sample ID: T49812-2 Matrix: AQ - Ground Water Method: SW846 8260B Project: AECCOLI: DCP Midstream RR Ext	Date Sampled: 03/22/10 Date Received: 03/25/10 Percent Solids: n/a
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F024822.D	200	04/01/10	RR	n/a	n/a	VF3805
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	23.8	0.40	0.10	mg/l	
108-88-3	Toluene	0.710	0.40	0.087	mg/l	
100-41-4	Ethylbenzene	0.529	0.40	0.11	mg/l	
1330-20-7	Xylene (total)	ND	1.2	0.33	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	114%		87-119%
460-00-4	4-Bromofluorobenzene	128%		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-2	Date Sampled:	03/22/10
Lab Sample ID:	T49812-2	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	700	100	mg/l	100	04/05/10 10:45	SS	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-3	Date Sampled: 03/22/10
Lab Sample ID: T49812-3	Date Received: 03/25/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOLI: DCP Midstream RR Ext	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F024823.D	100	04/01/10	RR	n/a	n/a	VF3805
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	8.43	0.20	0.050	mg/l	
108-88-3	Toluene	9.14	0.20	0.043	mg/l	
100-41-4	Ethylbenzene	1.01	0.20	0.055	mg/l	
1330-20-7	Xylene (total)	2.71	0.60	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	114%		87-119%
460-00-4	4-Bromofluorobenzene	128%		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	Date Sampled:	03/22/10
Lab Sample ID:	T49812-3	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	440	10	mg/l	10	04/05/10 10:45	SS	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-6 Lab Sample ID: T49812-4 Matrix: AQ - Ground Water Method: SW846 8260B Project: AECCOLI: DCP Midstream RR Ext	Date Sampled: 03/22/10 Date Received: 03/25/10 Percent Solids: n/a
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F024810.D	1	04/01/10	RR	n/a	n/a	VF3805
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	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	114%		87-119%
460-00-4	4-Bromofluorobenzene	127%		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-6	Date Sampled:	03/22/10
Lab Sample ID:	T49812-4	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	700	100	mg/l	100	04/05/10 10:45	SS	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-7 Lab Sample ID: T49812-5 Matrix: AQ - Ground Water Method: SW846 8260B Project: AECCOLI: DCP Midstream RR Ext	Date Sampled: 03/22/10 Date Received: 03/25/10 Percent Solids: n/a
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F024826.D	1	04/01/10	RR	n/a	n/a	VF3805
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	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	105%		75-121%
2037-26-5	Toluene-D8	115%		87-119%
460-00-4	4-Bromofluorobenzene	129%		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

Client Sample ID:	MW-7	Date Sampled:	03/22/10
Lab Sample ID:	T49812-5	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	750	100	mg/l	100	04/05/10 10:45	SS	SM 4500 CL C

RL ≈ Reporting Limit

Report of Analysis

Client Sample ID: MW-8	Date Sampled: 03/22/10
Lab Sample ID: T49812-6	Date Received: 03/25/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECCOLI: DCP Midstream RR Ext	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F024827.D	1	04/01/10	RR	n/a	n/a	VF3805
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	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	115%		87-119%
460-00-4	4-Bromofluorobenzene	128%		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-8	Date Sampled:	03/22/10
Lab Sample ID:	T49812-6	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	800	100	mg/l	100	04/05/10 10:45	SS	SM 4500 CL C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP	Date Sampled:	03/22/10
Lab Sample ID:	T49812-7	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECCOLI: DCP Midstream RR Ext		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F024847.D	10	04/01/10	RR	n/a	n/a	VF3806
Run #2	F024956.D	10	04/04/10	RR	n/a	n/a	VF3815

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.431 ^a	0.020	0.0050	mg/l	
108-88-3	Toluene	0.714	0.020	0.0043	mg/l	
100-41-4	Ethylbenzene	0.640	0.020	0.0055	mg/l	
1330-20-7	Xylene (total)	0.201	0.060	0.017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	101%	96%	75-121%
2037-26-5	Toluene-D8	115%	105%	87-119%
460-00-4	4-Bromofluorobenzene	131%	101%	80-133%

(a) Result is from Run# 2

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

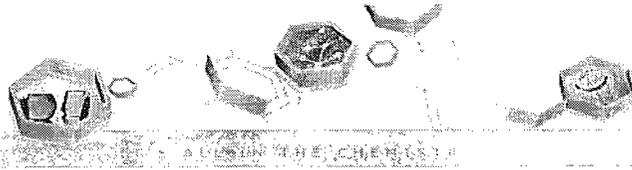
Report of Analysis

Client Sample ID:	DUP	Date Sampled:	03/22/10
Lab Sample ID:	T49812-7	Date Received:	03/25/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream RR Ext		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	850	100	mg/l	100	04/05/10 10:45	SS	SM 4500 CL C

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Southeast

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
 TEL: 407-425-6700 • FAX: 407-425-0707
 www.accutest.com

Accutest JOB # T49812 PAGE OF

Accutest Quote # SKIFF#

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes			
Company Name: <u>DCP Midstream</u>		Project Name: <u>RR EXT</u>												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Other Liquid AIR - Air SDL - Other Solid WP - Wipe			
Address: <u>370 17th Street Ste 2500</u>		Street: <u> </u>															
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>		City: <u> </u> State: <u> </u>															
Project Contact: <u>S. Weathers</u> E-mail: <u>SWeathers@dcpl.com</u> Project: <u>Midstream.com</u>		Fax #: <u> </u>															
Phone #: <u>303 605 1718</u>		Client Purchase Order #: <u> </u>															
Sampler(s) Name(s) (Printed): <u>M. Stewart / A. Taylor</u>																	
Accutest Sample #	Field ID / Point of Collection	2010 COLLECTION		CONTAINER INFORMATION										LAB USE ONLY			
		DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	NOI	NSH	PHOS	REGOL	PAH/HCAL		IN WATER	VEGET	
1	MW-1	3/22	1735	ACC	GW	4										3	1
2	MW-2		1535			4			X							3	1
3	MW-3		1715			4			X							3	1
4	MW-6		1640			4			X							3	1
5	MW-7		1645			4			X							3	1
6	MW-8		1740			4			X							3	1
4	MS/MUSD MW-6		1640			6			X							8	1
7	Dnp	✓	000	✓	✓	4			X							3	1
TURNAROUND TIME (Business Days)		Data Deliverable Information										Comments / Remarks					
<input type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other		Approved By: / Rush Code		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S													
Emergency or Rush T/A Data Available VIA Email or Lablink																	
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:	Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:			
1	3/24/10 6:00	2	3	FrEdEx	03/25/10	4			5			6					
5		6	7			8											
Lab Use Only: Custody Seal in Place: Y N Tamper Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: <u>1.4</u>																	

3.1
65

SAMPLE INSPECTION FORM

Accutest Job Number: T49812 Client: DLP Michigan Date/Time Received: 03/25/10 09:20

of Coolers Received: 1 Thermometer #: 10.1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 1.4 #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
- Analysis 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 recvd 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] 03/25/10

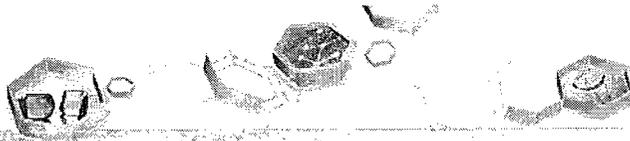
INFORMATION AND SAMPLE LABELING VERIFIED BY: EC 3.25 '10

CORRECTIVE ACTIONS

Client Representative Notified: _____ Date: _____

By Accutest Representative: _____ Via: Phone Email

Client Instructions: _____



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: T49812
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3805-MB	F024809.D	1	04/01/10	RR	n/a	n/a	VF3805

4.1.1
4

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-1, T49812-2, T49812-3, T49812-4, T49812-5, T49812-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	112% 79-122%
17060-07-0	1,2-Dichloroethane-D4	102% 75-121%
2037-26-5	Toluene-D8	114% 87-119%
460-00-4	4-Bromofluorobenzene	127% 80-133%

Method Blank Summary

Job Number: T49812
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3806-MB	F024832.D	1	04/01/10	RR	n/a	n/a	VF3806

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-7

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	112%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%
2037-26-5	Toluene-D8	113%	87-119%
460-00-4	4-Bromofluorobenzene	121%	80-133%

Method Blank Summary

Job Number: T49812
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3815-MB	F024949.D	1	04/04/10	RR	n/a	n/a	VF3815

4.1.3
4

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 79-122%
17060-07-0	1,2-Dichloroethane-D4	96% 75-121%
2037-26-5	Toluene-D8	104% 87-119%
460-00-4	4-Bromofluorobenzene	99% 80-133%

Blank Spike Summary

Job Number: T49812
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3805-BS	F024807.D	1	03/31/10	RR	n/a	n/a	VF3805

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-1, T49812-2, T49812-3, T49812-4, T49812-5, T49812-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.6	102	76-118
100-41-4	Ethylbenzene	25	25.0	100	75-112
108-88-3	Toluene	25	25.8	103	77-114
1330-20-7	Xylene (total)	75	76.8	102	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	112%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%
2037-26-5	Toluene-D8	114%	87-119%
460-00-4	4-Bromofluorobenzene	110%	80-133%

Blank Spike Summary

Job Number: T49812
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3806-BS	F024830.D	1	04/01/10	RR	n/a	n/a	VF3806

4.2.2
4

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	25	24.9	100	75-112
108-88-3	Toluene	25	25.5	102	77-114
1330-20-7	Xylene (total)	75	76.5	102	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	75-121%
2037-26-5	Toluene-D8	113%	87-119%
460-00-4	4-Bromofluorobenzene	110%	80-133%

Blank Spike Summary

Job Number: T49812
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3815-BS	F024947.D	1	04/04/10	RR	n/a	n/a	VF3815

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	22.6	90	76-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	97%	75-121%
2037-26-5	Toluene-D8	104%	87-119%
460-00-4	4-Bromofluorobenzene	98%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T49812
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T49812-4MS	F024811.D	1	04/01/10	RR	n/a	n/a	VF3805
T49812-4MSD	F024812.D	1	04/01/10	RR	n/a	n/a	VF3805
T49812-4	F024810.D	1	04/01/10	RR	n/a	n/a	VF3805

4.3.1
4

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-1, T49812-2, T49812-3, T49812-4, T49812-5, T49812-6

CAS No.	Compound	T49812-4 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	26.9	108	26.9	108	0	76-118/16
100-41-4	Ethylbenzene	ND	25	26.1	104	25.7	103	2	75-112/12
108-88-3	Toluene	ND	25	27.1	108	26.5	106	2	77-114/12
1330-20-7	Xylene (total)	ND	75	80.2	107	78.8	105	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T49812-4	Limits
1868-53-7	Dibromofluoromethane	112%	112%	112%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	103%	75-121%
2037-26-5	Toluene-D8	113%	111%	114%	87-119%
460-00-4	4-Bromofluorobenzene	110%	108%	127%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T49812
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T49884-10MS	F024843.D	1	04/01/10	RR	n/a	n/a	VF3806
T49884-10MSD	F024844.D	1	04/01/10	RR	n/a	n/a	VF3806
T49884-10	F024833.D	1	04/01/10	RR	n/a	n/a	VF3806

The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-7

CAS No.	Compound	T49884-10 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND	25	29.2	117*	29.1	116*	0	75-112/12
108-88-3	Toluene	ND	25	30.0	120*	29.7	119*	1	77-114/12
1330-20-7	Xylene (total)	ND	75	90.2	120*	89.2	119*	1	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T49884-10	Limits
1868-53-7	Dibromofluoromethane	114%	113%	112%	79-122%
17060-07-0	1,2-Dichloroethane-D4	110%	106%	103%	75-121%
2037-26-5	Toluene-D8	114%	113%	113%	87-119%
460-00-4	4-Bromofluorobenzene	110%	110%	121%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T49812
 Account: DUKE DCP Midstream, LLC
 Project: AECCOLI: DCP Midstream RR Ext

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T49684-1MS	F024954.D	1	04/04/10	RR	n/a	n/a	VF3815
T49684-1MSD	F024955.D	1	04/04/10	RR	n/a	n/a	VF3815
T49684-1	F024953.D	1	04/04/10	RR	n/a	n/a	VF3815

4.3.3
4

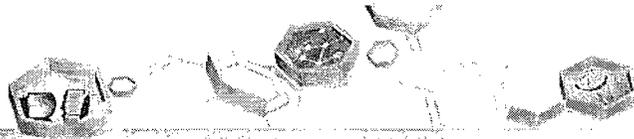
The QC reported here applies to the following samples:

Method: SW846 8260B

T49812-7

CAS No.	Compound	T49684-1 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	23.9	96	24.0	96	0	76-118/16

CAS No.	Surrogate Recoveries	MS	MSD	T49684-1	Limits
1868-53-7	Dibromofluoromethane	102%	101%	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	96%	75-121%
2037-26-5	Toluene-D8	103%	104%	104%	87-119%
460-00-4	4-Bromofluorobenzene	98%	97%	100%	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: T49812
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP8421/GN21847	1.0	0.0	mg/l	1000	1010	101.2	92-107%

Associated Samples:
Batch GP8421: T49812-1, T49812-2, T49812-3, T49812-4, T49812-5, T49812-6, T49812-7
(* Outside of QC limits)

5.1
5

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T49812
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP8421/GN21847	T49812-4	mg/l	700	700	0.0	0-5%

Associated Samples:

Batch GP8421: T49812-1, T49812-2, T49812-3, T49812-4, T49812-5, T49812-6, T49812-7
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T49812
Account: DUKE - DCP Midstream, LLC
Project: AECCOLI: DCP Midstream RR Ext

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP8421/GN21847	T49812-4	mg/l	700	1000	1650	95.0	81-119%

Associated Samples:

Batch GP8421: T49812-1, T49812-2, T49812-3, T49812-4, T49812-5, T49812-6, T49812-7

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

53

