

1R - 401

REPORTS

DATE:

12/9/2004

December 9, 2004

Mr Stephen Weathers
Duke Energy Field Services, LP
370 17th Street, Suite 2500
Denver, CO 80202

Re: Summary of September 2004 Groundwater Monitoring Results at the
C-Line 50602 Location in Lea County New Mexico
(Unit O, Section 31, Township 19 South, Range 37 East)

Dear Mr. Weathers:

This report summarizes the groundwater monitoring activities completed at the C-Line 50602 Site for Duke Energy Field Services, LP (DEFS) in September 2004. The C-Line 50602 site is located in the southwestern quarter of the southeastern quarter (Unit O) of Section 31, Township 19 South, Range 37 East (Figure 1). The approximate coordinates are 32 degrees 32.5 minutes north, 103 degrees 15.3 minutes east. The site is approximately 6.25 miles south and 1.25 miles west of the town of Monument in Lea County New Mexico. The area surrounding the release sites is uninhabited and is used for ranching. At least five pipelines traverse the study area (Figure 2). DEFS owns two of these pipelines. Rice, Dynegy and SRG own the remaining pipelines. Both current and historic exploration and production components also surround the location.

BACKGROUND INFORMATION

The monitoring system includes free product removal well MW-1 and the eight monitoring wells MW-2 through MW-9 (Figure 2). Table 1 summarizes construction information for each well.

The free product collection system was installed in MW-1 in mid-November 2003. The system became operational on November 26, 2003. A local DEFS subcontractor monitors system operation and product recovery on a weekly basis. Approximately 1,212 gallons of free phase hydrocarbons had been removed as of December 6, 2004. A soil vapor extraction (SVE) system was also installed onto MW-1 and became operational in early October 2004. Preliminary measurements indicate that the system is producing an approximate vacuum of 60" water.

GROUNDWATER SAMPLING

Groundwater samples were collected by Trident Environmental on September 28, 2004. The depth to water in each well was measured prior to the sampling activities. Well MW-1 contained 2.16 feet of free product so it was not sampled. MW-4 also contained 0.21 feet of free product so it was not sampled. This was the first time that this well contained free product. The remaining seven wells were purged and sampled using the standard protocols for this site.

The calculated groundwater elevations for all monitoring episodes are summarized in Table 2. The product thickness values measured in MW-1 throughout the project are summarized in Table 3 and graphed on Figure 3. Note that the product collection system was operating on September 28, 2004 when MW-1 was gauged so the measured product thickness may not represent the equilibrated thickness.

Each well (excepting MW-1 and MW-4) was purged using a disposable bailer 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 purge water was disposed of at the DEFS Linam Ranch facility.

The samples were then collected using the disposable bailers. All samples were placed in an ice-filled chest immediately upon collection and delivered to the analytical laboratory (Environmental Labs of Texas) using standard chain-of-custody protocol. The unfiltered samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX).

The laboratory analyses are summarized in Table 4 for the June 2004 sampling event. Table 5 includes the values for all of the investigative sampling episodes. The laboratory report for the June 2004 sampling episode is attached.

Table 4 also include the quality assurance/quality control information. The relative percentage difference (RPD) values for MW-1 were all under 10 percent indicating good agreement. The matrix spike and matrix spike analyses that were completed on a sample from MW-7 were also within percentage recovery limits with the exception of the p/m xylene values.

RESULTS AND INTERPRETATIONS

Figure 4 shows the September 2004 calculated groundwater contours as generated using the Surfer® program with the kriging option. Groundwater flow is toward the southeast. The flow direction corresponds well with the historic measurements.

Figure 5 includes hydrographs for all wells, with free product corrections applied to MW-1 and MW-4. The water table continues to decline even with the heavy rains that occurred over the

Mr. Stephen Weathers
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past 6 months. The relative water-table elevation differences between the wells remain equivalent to the historic values indicating that equilibrated conditions are present.

Figure 6 depicts the spatial June benzene distribution. The changes in benzene concentrations over time are plotted for MW-3 on Figure 7 and for wells MW-2 and MW-5 on Figure 8. The benzene concentration increased between June 2004 and September 2004 in MW-3 and MW-5 while declining in MW-2.

The values in MW-3 and MW-5 indicate that the BTEX concentrations have not equilibrated in the interior part of the plume. Wells MW-7, MW-8 and MW-9 remain unaffected so any plume expansion is occurring upgradient from these locations.

The next groundwater-monitoring event is scheduled for December 2004. Active free product removal and SVE will continue from MW-1 in the interim. The results from the December sampling will be used to evaluate the effectiveness of the SVE system on stabilizing the BTEX concentrations within the plume. Additional source characterization activities may be necessary if the December 2004 data indicates that plume equilibration has not been achieved.

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

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

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

MHS/tbm

TABLES

Table 1 – Summary of Well Construction Information

Well	Top of Casing Elevation	Ground Elevation	Screen Diameter	Screened Interval	Sand Interval	Total Depth
MW-1	3,541.21	3,538.64	4"	82.5-97.5	81-98	98
MW-2	3,540.91	3,537.70	2"	81-101	77-102	102
MW-3	3,541.41	3,539.30	2"	80-100	78-103	103
MW-4	3,541.40	3,538.51	2"	80-100	78-103	103
MW-5	3,541.45	3,538.69	2"	80-100	78-102	102
MW-6	3,543.98	3,540.94	2"	79-99	75-102	102
MW-7	3,542.42	3,540.20	2"	82.5-97.5	77-98*	98
MW-8	3,540.29	3,538.08	2"	82.5-97.5	81-98	98
MW-9	3,539.62	3,537.33	2"	82.5-97.5	81-98	98

All units in feet except as noted

* Well MW-7 had a natural sand pack from 98 to 93 feet

Table 2 – Summary of Corrected Water Table Elevations

Well	Nov. 2002	Feb. 2003	Apr. 2003	Oct. 2003	Jan. 2004	Jun. 2004	Sep. 2004
MW-1	3,452.01	3,451.60	3,451.73	3,451.35	3,451.34	3,451.23	3451.19
MW-2	3,452.11	3,451.97	3,451.96	3,451.87	3,451.84	3,451.73	3451.72
MW-3	3,452.25	3,451.37	3,451.33	3,451.27	3,451.22	3,451.06	3451.01
MW-4	3,451.56	3,451.32	3,451.21	3,451.25	3,451.19	3,451.02	3450.88
MW-5	3,451.39	3,451.21	3,451.09	3,451.20	3,451.11	3,450.86	3450.75
MW-6	3,448.77	3,448.51	3,448.38	3,448.46	3,448.37	3,448.14	3448.03
MW-7	-----	-----	-----	3,450.76	3,450.72	3,450.57	3450.47
MW-8	-----	-----	-----	3,450.35	3,450.22	3,450.03	3449.85
MW-9	-----	-----	-----	3,450.21	3,450.03	3,449.81	3449.67

Notes:

- 1) All units in feet.
- 2) The Elevation for MW-1 was corrected using a product density of 0.7
- 3) The groundwater elevation values for well MW-1 were corrected using the following formula
(all values in feet):

$$GWE_{\text{corr}} = MGWE + (PT \cdot PD): \text{ where}$$

MGWE is the actual measured groundwater elevation;
PT is the measured free-phase hydrocarbon thickness, and
PD is the free phase hydrocarbon density (assumed 0.7).

Table 3 - Historical Product Thickness Measurements for C-Line Well MW-1

Date	Product Thickness (feet)
11/2/02	3.15
2/17/03	3.62
4/16/03	2.92
10/30/03	3.21
6/29/04	2.66
9/28/04	2.16

Notes 1) The product thickness of 0.28 feet measured on January 29 2004 was probably measured while the product recovery system was operating and thus was not included in the Table..

2)The system was operating during September 28, 2004 measurement episode.

Table 4 - September 28, 2004 Sample Results and QA/QC Evaluation

	Benzene	Toluene	Ethylbenzene	p/m Xylenes	o Xylenes
MW-1	FP	FP	FP	FP	FP
MW-2	0.329	0.0174	<0.001	<0.001	<0.001
MW-3	11.2	0.0218	0.105	0.0107J	0.0105J
MW-3D	11.7	0.0226J	0.105	0.00994J	0.00969J
MW-4	FP	FP	FP	FP	FP
MW-5	0.0336	0.0028	<0.001	<0.001	<0.001
MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	<0.001	<0.001	<0.001	<0.001	<0.001
TB	<0.001	<0.001	<0.001	<0.001	<0.001

Notes: All units mg/l
TB trip blank
FP Free Product

MW-3 Duplicate Sample Evaluation

	Benzene	Toluene	Ethylbenzene	p/m Xylenes	o Xylenes
MW-3 RPD	4.3%	3.6%	0.0%	7.3%	6.5%

Matrix Spike,-Matrix Spike Duplicate Results

	Benzene	Toluene	Ethylbenzene	p/m Xylenes	o Xylenes
Matrix Spike	89.7	90.5	87.6	196	95.7
Matrix Spike Duplicate	89.7	90.5	87.6	196	95.7

Percent recovery limits are 80% to 120%

Table 5 - Summary of Analytical Results

Benzene	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
0.01								
11/15/2002	<0.001	0.017	0.114	<0.001	<0.001			
2/18/2003	0.29	2.52	1.12	0.328	0.001			
4/17/2003	0.175	3.18	0.782	0.128	0.002			
10/28/2003	0.018	5.01	0.077	0.164	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.0848	6.06	0.320	0.226	0.00382	<0.001	0.00139	<0.001
6/29/2004	0.0582	9.84	0.461	0.249	<0.00019	0.000456J	0.00248	<0.00019
9/28/2004	0.329	11.2	FP	0.0336	<0.001	<0.001	<0.001	<0.001

Toluene	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
0.75								
11/15/2002	<0.001	0.005	0.039	<0.001	<0.001			
2/18/2003	0.014	0.634	0.436	0.056	<0.001			
4/17/2003	0.007	0.513	0.45	0.007	<0.001			
10/28/2003	0.001	0.275	0.029	0.048	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.0350	0.506	0.169	0.064	0.00140	<0.001	0.00109	<0.001
6/29/2004	0.000219J	0.0917	0.0202	0.00172	<0.00014	<0.00014	<0.00014	<0.00014
9/28/2004	0.0174	0.0218	FP	0.00281	<0.001	<0.001	<0.001	<0.001

Ethylbenzene	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
0.75								
11/15/2002	<0.001	<0.001	0.002	<0.001	<0.001			
2/18/2003	0.001	0.021	0.022	0.004	<0.001			
4/17/2003	<0.001	0.028	0.029	<0.001	<0.001			
10/28/2003	<0.001	0.031	0.002	0.002	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.00292	0.0679	0.0203	0.00404	0.00133	<0.001	0.00112	<0.001
6/29/2004	0.00534	0.0873	0.352	0.0603	<0.00013	<0.00013	0.000633J	<0.00013
9/28/2004	<0.001	0.105	FP	<0.001	<0.001	<0.001	<0.001	<0.001

Xylenes	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
0.62								
11/15/2002	<0.001	<0.001	0.003	<0.001	<0.001			
2/18/2003	0.001	0.064	0.032	0.004	<0.001			
4/17/2003	<0.001	0.1	0.055	<0.001	<0.001			
10/28/2003	<0.001	0.083	0.008	0.004	<0.001	<0.001	<0.001	<0.001
1/29/2004	0.00474	0.0849	0.053	0.0074	0.00194	<0.001	0.00217	<0.001
6/29/2004	0.001J	0.02404	0.074	0.004	<0.0002	<0.0002	<0.0002	<0.0002
9/28/2004	<0.001	0.0213	FP	<0.001	<0.001	<0.001	<0.001	<0.001

Notes:

- 1) All units mg/l
- 2) Duplicate samples not included
- 3) Samples that exceed New Mexico Water Quality Control Commission Groundwater Standards are bold.

FIGURES

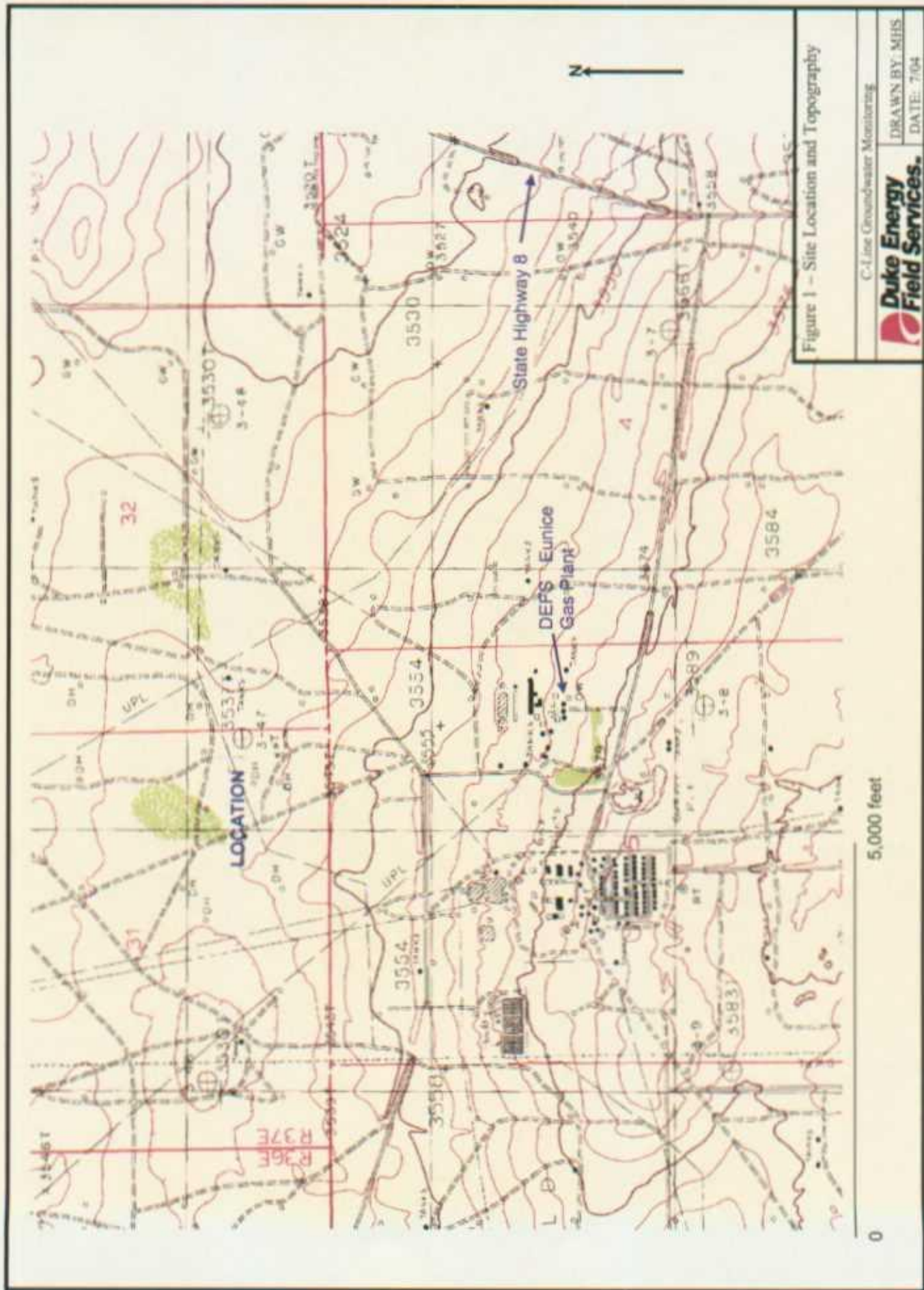


Figure 1 - Site Location and Topography

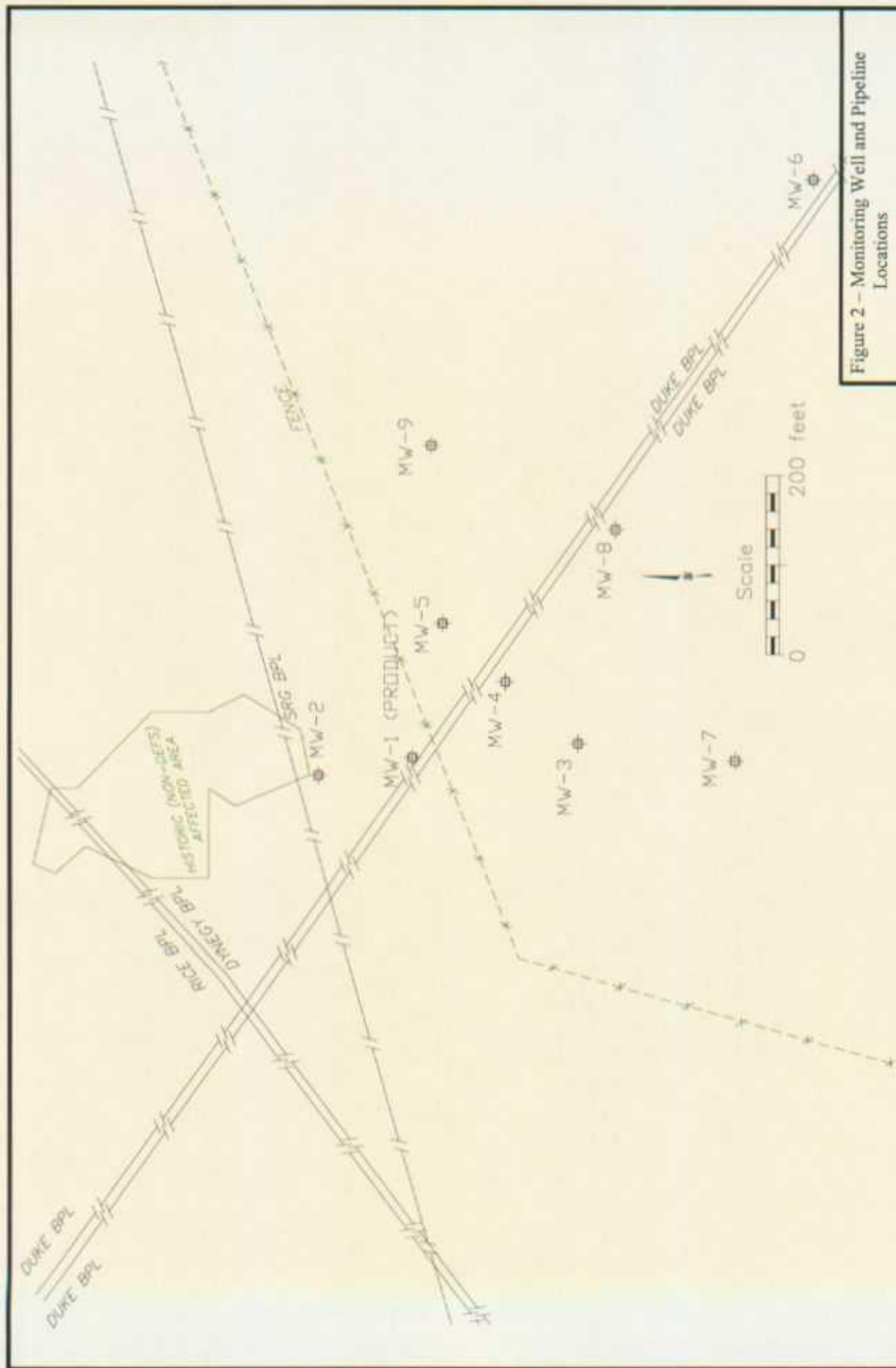


Figure 2 – Monitoring Well and Pipeline Locations

C-Line Groundwater Monitoring



DRAWN BY: MHS

DATE: 7/04

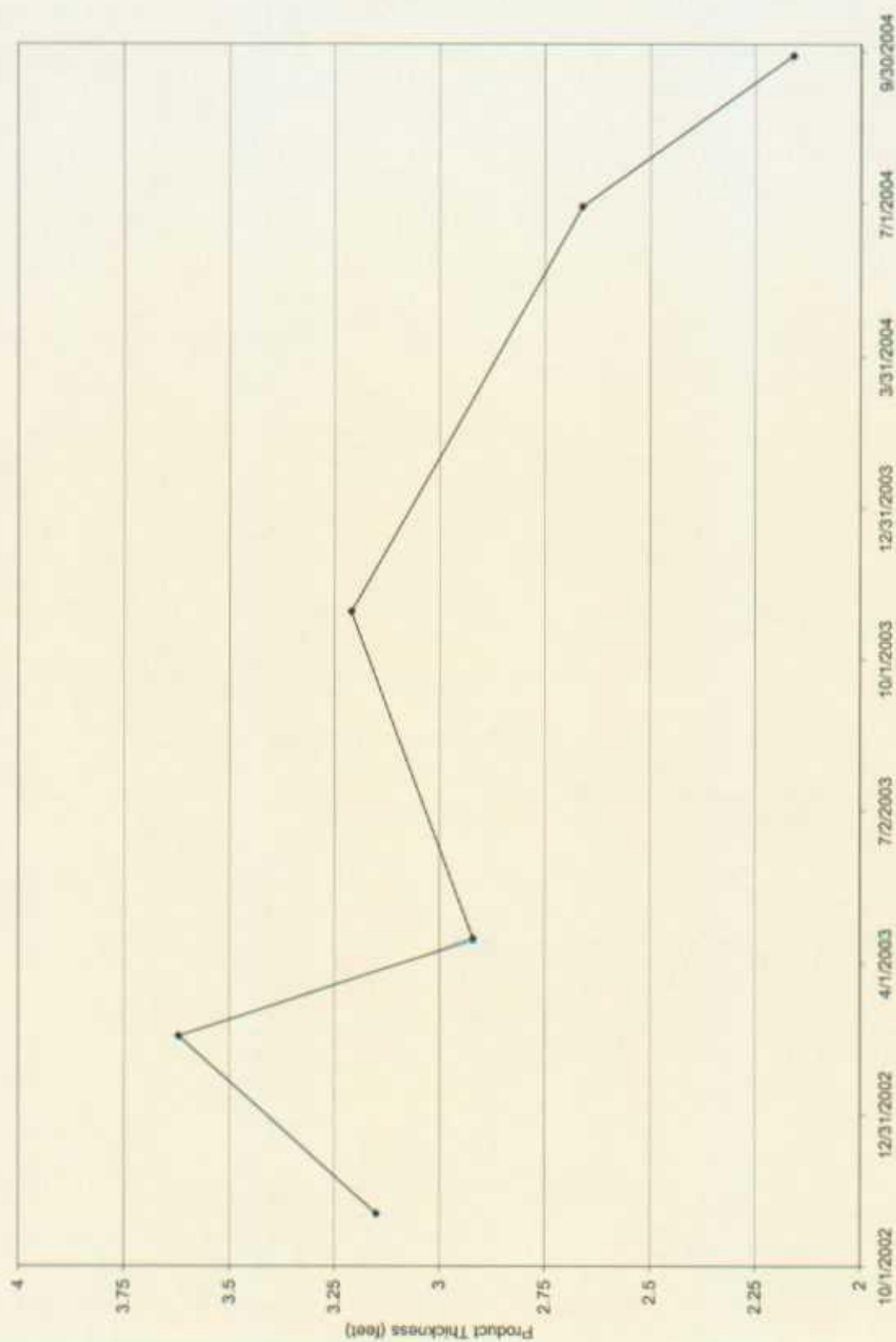
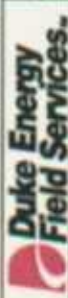


Figure 3 -- Summary of Measured Product Thickness Values for MW-1

C-Line Groundwater Monitoring



DRAWN BY: MHS
DATE: 12/04

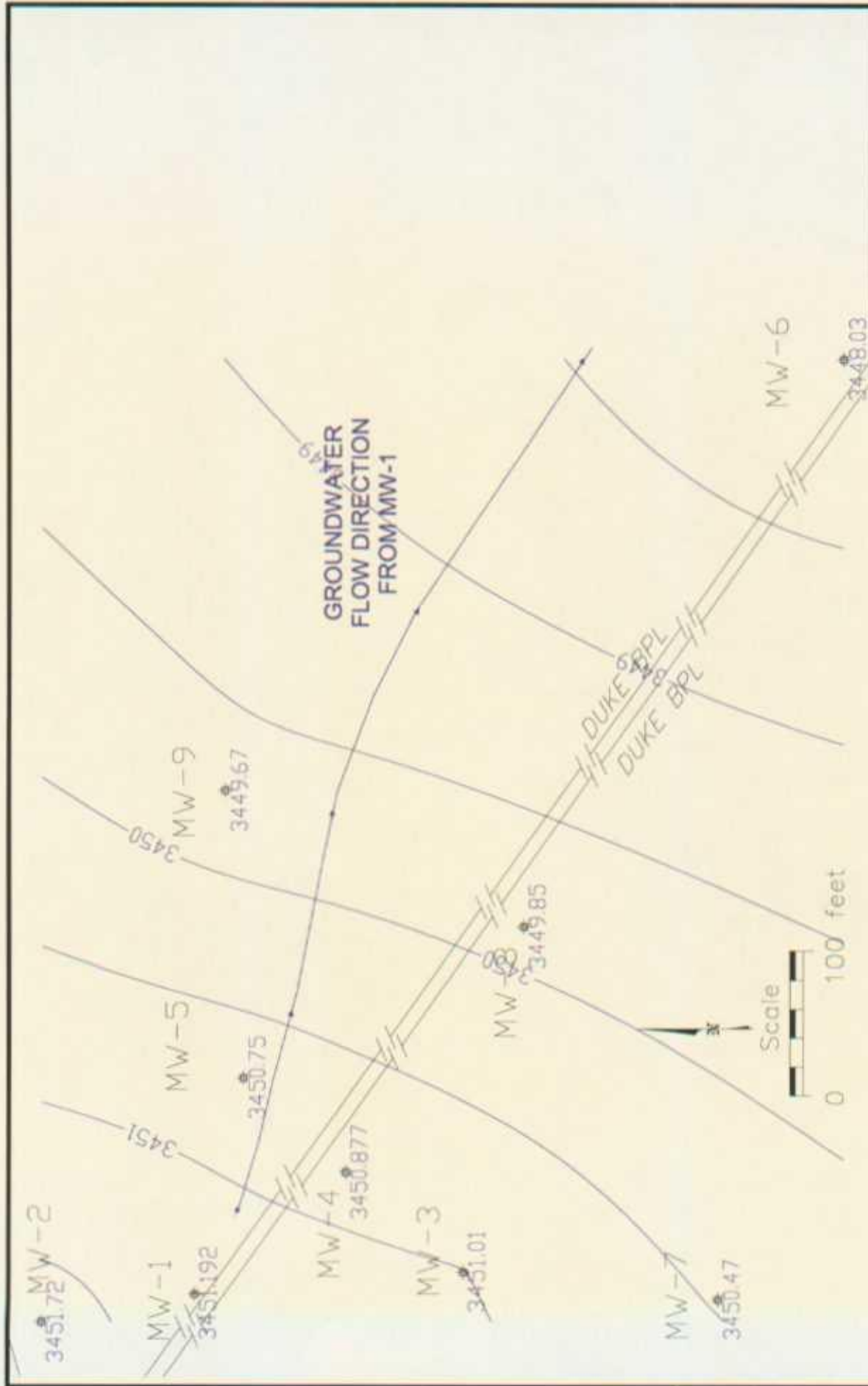


Figure 4 - June 2004 Water Table

Elevations (feet)

C-Line Groundwater Monitoring

Duke Energy
Field Services.

DRAWN BY: MHS

DATE: 12/04

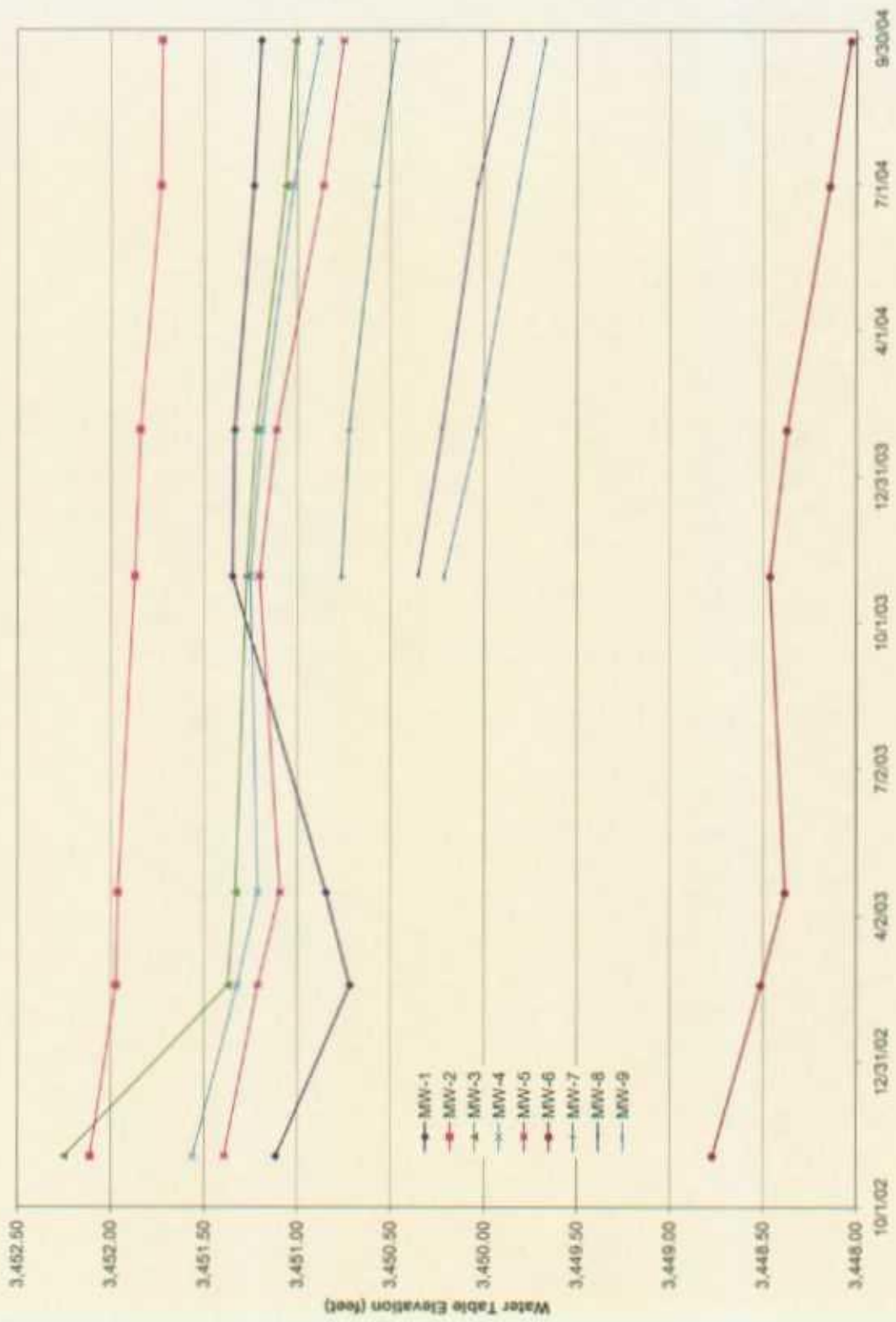
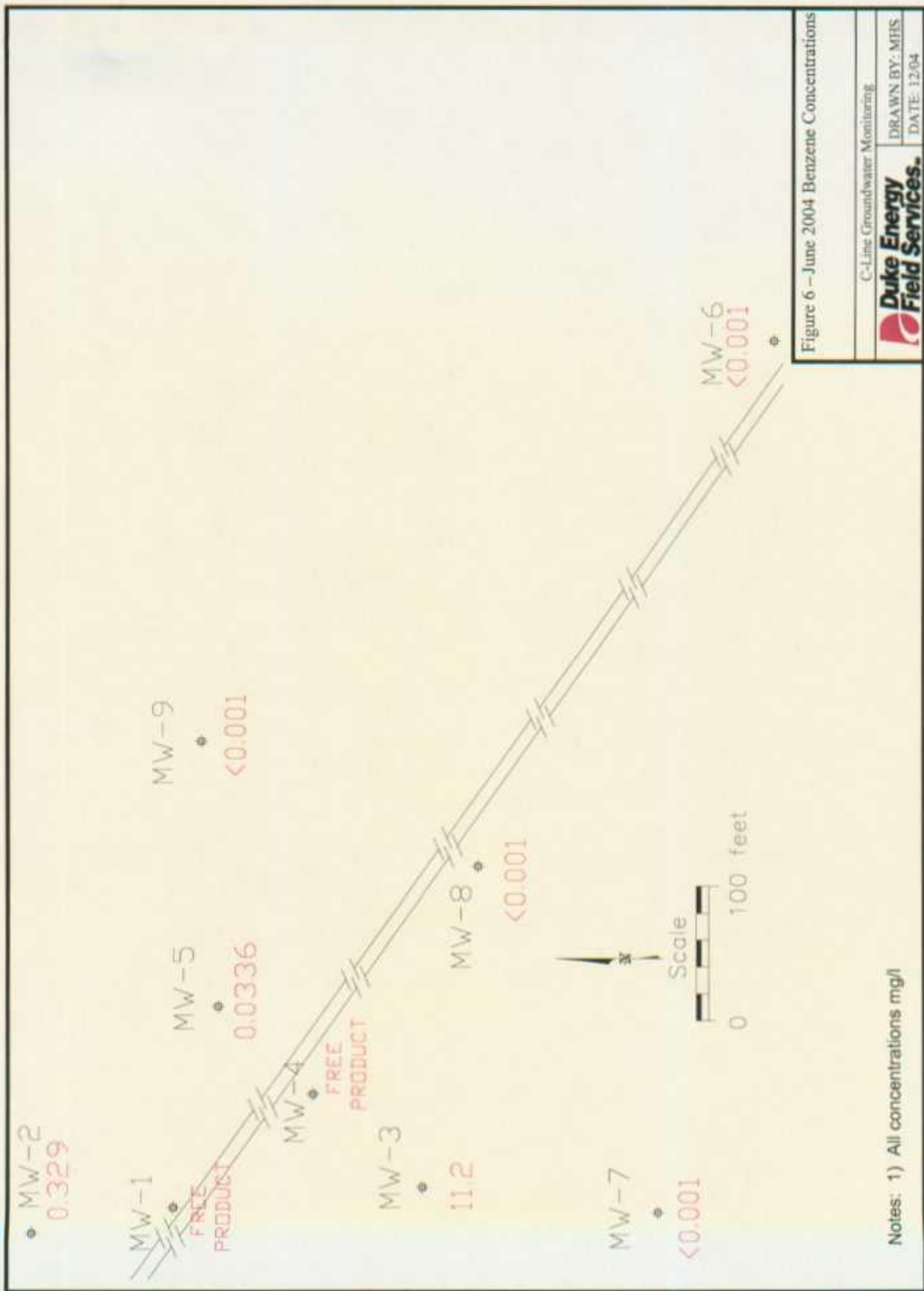


Figure 5 - Hydrograph for Wells MW-1 through MW-6

C-Line Groundwater Monitoring



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DATE: 12/04



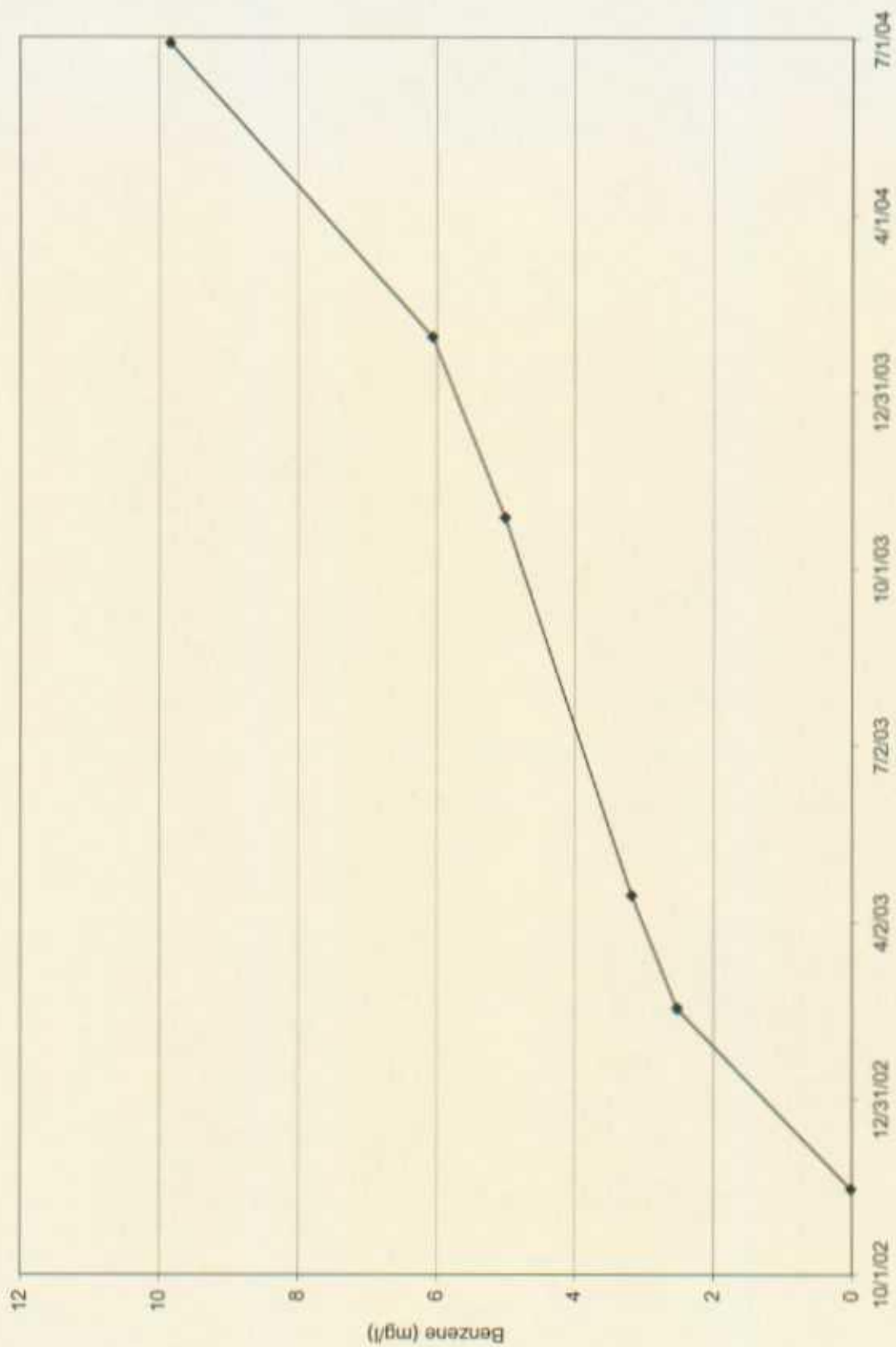


Figure 7 - Benzene Concentrations for Wells
MW-3

C-Line Groundwater Monitoring

**Duke Energy
Field Services.**

DRAWN BY: MHS

DATE: 12/04

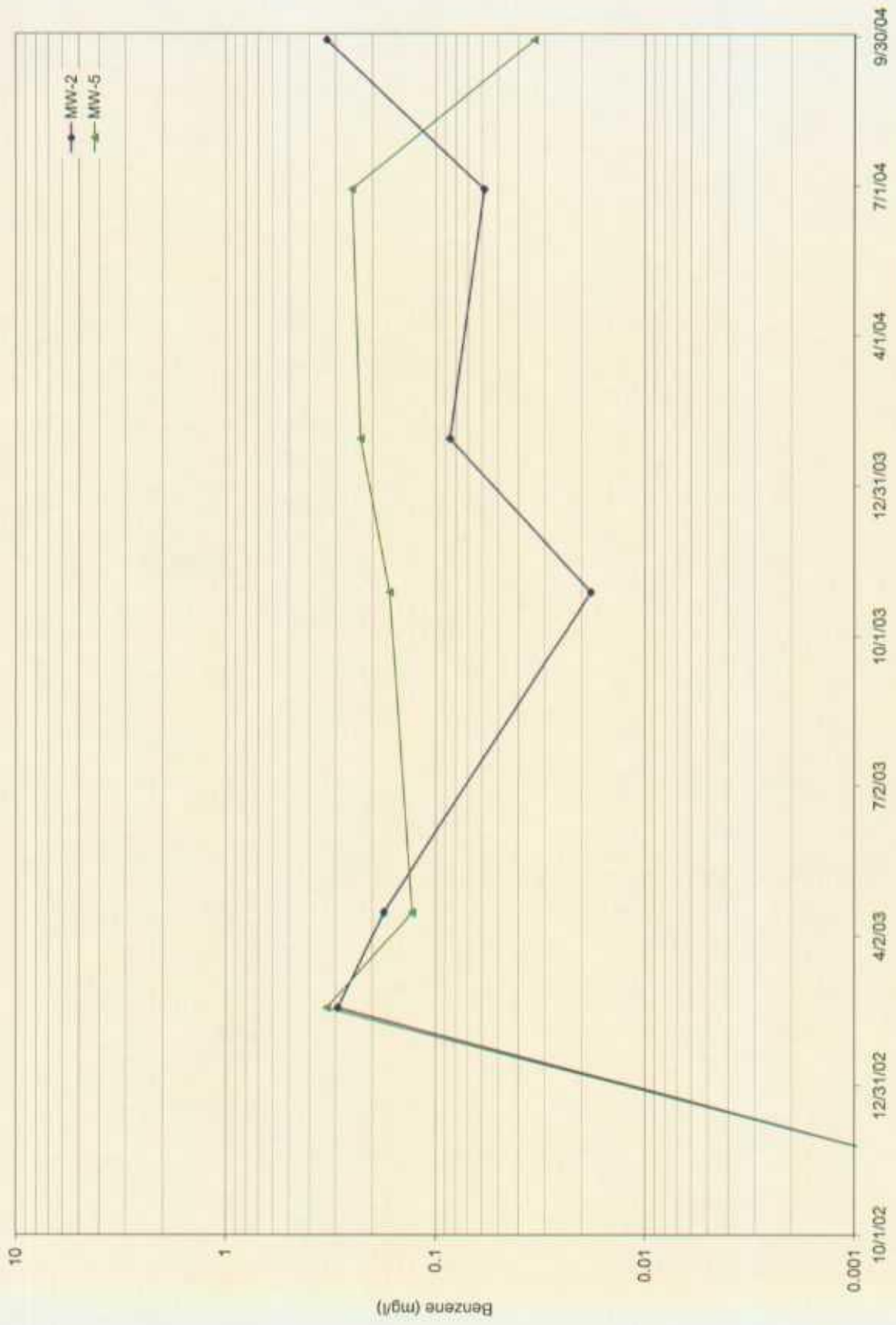


Figure 8 – Benzene Concentrations for Wells MW-2 and MW-5

0.001 is the method detection limit.

FIELD SHEETS AND
ANALYTICAL LABORATORY REPORT

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services WELL ID: RW-1
 SITE NAME: C Line DATE: 9/28/2004
 PROJECT NO. F-107 SAMPLER: J. Ferguson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 93.05 Feet

DEPTH TO WATER: _____ Feet

HEIGHT OF WATER COLUMN: _____ Feet

WELL DIAMETER: 2.0 Inch

0.0 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
0:00 :Total Time (hr:min)			0 :Total Vol (gal)			#DIV/0! :Flow Rate (gal/min)	

SAMPLE NO.: Collected Sample No.: 040928

ANALYSES: _____

COMMENTS: DID NOT SAMPLE DUE TO FREE PHASE HYDROCARBONS IN WELL!

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services WELL ID: MW-2
 SITE NAME: C Line DATE: 9/28/2004
 PROJECT NO. F-107 SAMPLER: J. Ferguson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 100.94 Feet

DEPTH TO WATER: 89.19 Feet

HEIGHT OF WATER COLUMN: 11.75 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
13:02	0	-	-	-	-	-	Begin Hand Bailing
13:11	2	21.2	2.43	6.93	0.7	-	
13:24	4	21.2	2.41	6.96	1.2	-	
13:35	6	21.0	2.39	6.94	1.3	-	
0:33 :Total Time (hr:min)			6 :Total Vol (gal)	0.18 :Flow Rate (gal/min)			

SAMPLE NO.: Collected Sample No.: 040929 1340

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services WELL ID: MW-3
 SITE NAME: C Line DATE: 9/28/2004
 PROJECT NO. F-107 SAMPLER: J. Ferguson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 102.44 Feet

DEPTH TO WATER: 90.40 Feet

HEIGHT OF WATER COLUMN: 12.04 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:52	0	-	-	-	-	-	Begin Hand Bailing
11:59	2	20.7	2.31	6.93	1.9	-	
12:10	4	20.4	2.25	7.04	2.0	-	
12:18	6	20.1	2.26	7.02	1.7	-	
0:26 :Total Time (hr:min)			6 :Total Vol (gal)	0.23 :Flow Rate (gal/min)			

SAMPLE NO.: Collected Sample No.: 040928 1220

ANALYSES: BTEX (8021-B)

COMMENTS: Collected Duplicate Sample No.: 0409281600

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services WELL ID: MW-4
 SITE NAME: C Line DATE: 9/28/2004
 PROJECT NO. F-107 SAMPLER: J. Fergerson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 103.30 Feet

DEPTH TO WATER: 90.38 Feet

HEIGHT OF WATER COLUMN: 12.92 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
	0	-	-	-	-	-	Begin Hand Bailing
	2						
	4						
	6						
	7						
0:00 :Total Time (hr:min)			7	:Total Vol (gal)		#DIV/0! :Flow Rate (gal/min)	

SAMPLE NO.: Collected Sample No.: 040928

ANALYSES: BTEX (8021-B)

COMMENTS: Did Not Sample Due to FPH in Well!

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services WELL ID: MW-5
 SITE NAME: C Line DATE: 9/28/2004
 PROJECT NO. F-107 SAMPLER: J. Ferguson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 102.05 Feet

DEPTH TO WATER: 90.70 Feet

HEIGHT OF WATER COLUMN: 11.35 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
10:54	0	-	-	-	-	-	Begin Hand Bailing
11:06	2	21.3	2.55	6.97	1.8	-	
11:13	4	21.0	2.52	6.87	2.5	-	
11:22	6	20.5	2.53	6.89	2.6	-	
0:28 :Total Time (hr:min)			6 :Total Vol (gal)	0.21 :Flow Rate (gal/min)			

SAMPLE NO.: Collected Sample No.: 040928 1125

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services WELL ID: MW-6
 SITE NAME: C Line DATE: 9/28/2004
 PROJECT NO. F-107 SAMPLER: J. Ferguson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 103.20 Feet

DEPTH TO WATER: 95.95 Feet

HEIGHT OF WATER COLUMN: 7.25 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
10:09	0	-	-	-	-	-	Begin Hand Bailing
10:20	2	20.8	2.85	7.00	5.0	-	
10:27	4	20.8	2.94	6.93	4.7	-	
10:40	6	21.0	2.93	6.97	4.9	-	
0:31 :Total Time (hr:min)			6	:Total Vol (gal)		0.19	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 040928 1045

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services WELL ID: MW-7
 SITE NAME: C Line DATE: 9/28/2004
 PROJECT NO. F-107 SAMPLER: J. Ferguson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 100.40 Feet

DEPTH TO WATER: 91.95 Feet

HEIGHT OF WATER COLUMN: 8.45 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:50	0	-	-	-	-	-	Begin Hand Bailing
11:55	2	20.7	1.86	7.22	1.5	-	
12:04	4	20.3	1.87	7.22	2.3	-	
12:13	6	20.2	1.83	7.27	2.6	-	
0:23 :Total Time (hr:min)		6 :Total Vol (gal)		0.26 :Flow Rate (gal/min)			

SAMPLE NO.: Collected Sample No.: 040928 1215

ANALYSES: BTEX (8021-B)

COMMENTS: Collected MS/MSD Samples

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
 SITE NAME: C Line
 PROJECT NO. F-107

WELL ID: MW-8
 DATE: 9/28/2004
 SAMPLER: J. Fergerson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 100.50 Feet

DEPTH TO WATER: 90.44 Feet

HEIGHT OF WATER COLUMN: 10.06 Feet

WELL DIAMETER: 2.0 Inch

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

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
12:32	0	-	-	-	-	-	Begin Hand Bailing
12:41	2	20.4	2.1	7.07	3.4	-	
12:47	4	20.6	2.16	7.09	3.8	-	
12:53	6	20.5	2.25	7.15	5.1	-	
0:21 :Total Time (hr:min)			6	:Total Vol (gal)		0.28	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 040928 1255

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
 SITE NAME: C Line
 PROJECT NO. F-107

WELL ID: MW-9
 DATE: 9/28/2004
 SAMPLER: J. Ferguson/D. Littlejohn

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: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☒ Disposal Facility

TOTAL DEPTH OF WELL: 100.51 Feet

DEPTH TO WATER: 89.95 Feet

HEIGHT OF WATER COLUMN: 10.56 Feet

WELL DIAMETER: 2.0 Inch

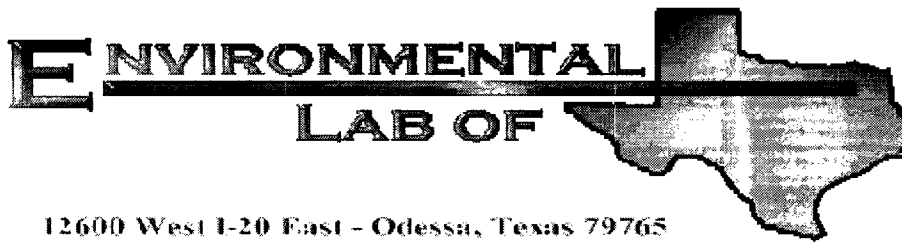
5.2 Minimum Gallons to
 purge 3 well volumes
 (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg/L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:05	0	-	-	-	-	-	Begin Hand Bailing
11:09	2	20.5	1.86	7.18	6.2	-	
11:17	4	20.2	1.90	7.11	5.8	-	
11:28	6	20.1	2.08	7.10	6.2	-	
0:23 :Total Time (hr:min)			6 :Total Vol (gal)	0.26 :Flow Rate (gal/min)			

SAMPLE NO.: Collected Sample No.: 040928 1130

ANALYSES: BTEX (8021-B)

COMMENTS: Collected MS/MSD Sample



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Michael Stewart

REMEDIACON

P.O. Box 302

Evergreen, CO 80437

Project: DEFS-C-Line Pipeline

Project Number: None Given

Location: Lea County, New Mexico

Lab Order Number: 4129005

Report Date: 10/07/04

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6 (0409281045)	4I29005-01	Water	09/28/04 10:45	09/29/04 09:52
MW-5 (0409281125)	4I29005-02	Water	09/28/04 11:25	09/29/04 09:52
MW-9 (0409281130)	4I29005-03	Water	09/28/04 11:30	09/29/04 09:52
MW-7 (0409281215)	4I29005-04	Water	09/28/04 12:15	09/29/04 09:52
MW-3 (0409281220)	4I29005-06	Water	09/28/04 12:20	09/29/04 09:52
MW-8 (0409281255)	4I29005-07	Water	09/28/04 12:55	09/29/04 09:52
MW-2 (0409281340)	4I29005-08	Water	09/28/04 13:40	09/29/04 09:52
Duplicate (0409281600)	4I29005-09	Water	09/28/04 16:00	09/29/04 09:52
Trip Blank	4I29005-10	Water	09/28/04 00:00	09/29/04 09:52

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (0409281045) (4129005-01) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		91.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	80-120		"	"	"	"	
MW-5 (0409281125) (4129005-02) Water									
Benzene	0.0336	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	0.00281	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		95.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	80-120		"	"	"	"	
MW-9 (0409281130) (4129005-03) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		87.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		"	"	"	"	
MW-7 (0409281215) (4129005-04) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		83.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	80-120		"	"	"	"	

Environmental Lab of Texas

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REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (0409281220) (4129005-06) Water									
Benzene	11.2	0.0200	mg/L	20	EJ40603	10/05/04	10/05/04	EPA 8021B	
Toluene	0.0218	0.0200	"	"	"	"	"	"	
Ethylbenzene	0.105	0.0200	"	"	"	"	"	"	
Xylene (p/m)	J [0.0107]	0.0200	"	"	"	"	"	"	J
Xylene (o)	J [0.0105]	0.0200	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		124 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		92.9 %	80-120		"	"	"	"	
MW-8 (0409281255) (4129005-07) Water									
Benzene	ND	0.00100	mg/L	1	EJ40603	10/05/04	10/05/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.1 %	80-120		"	"	"	"	
MW-2 (0409281340) (4129005-08) Water									
Benzene	0.329	0.00100	mg/L	1	EJ40603	10/05/04	10/05/04	EPA 8021B	
Toluene	0.0174	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		140 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		99.9 %	80-120		"	"	"	"	
Duplicate (0409281600) (4129005-09) Water									
Benzene	11.7	0.0250	mg/L	25	EJ40603	10/05/04	10/05/04	EPA 8021B	
Toluene	J [0.0226]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.105	0.0250	"	"	"	"	"	"	
Xylene (p/m)	J [0.00994]	0.0250	"	"	"	"	"	"	J
Xylene (o)	J [0.00969]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		125 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		95.6 %	80-120		"	"	"	"	

Environmental Lab of Texas

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REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (4129005-10) Water									
Benzene	ND	0.00100	mg/L	1	EJ40603	10/05/04	10/05/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.3 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.7 %	80-120	"	"	"	"	"	

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REMEDIACON
P.O. Box 302
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Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ40413 - EPA 5030C (GC)

Blank (EJ40413-BLK1)

Prepared & Analyzed: 09/30/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	91.8		ug/l	100		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	80.5		"	100		80.5	80-120			

LCS (EJ40413-BS1)

Prepared & Analyzed: 09/30/04

Benzene	101		ug/l	100		101	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	201		"	200		100	80-120			
Xylene (o)	94.0		"	100		94.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	114		"	100		114	80-120			
Surrogate: 4-Bromofluorobenzene	111		"	100		111	80-120			

Calibration Check (EJ40413-CCV1)

Prepared: 09/30/04 Analyzed: 10/04/04

Benzene	98.7		ug/l	100		98.7	80-120			
Toluene	90.4		"	100		90.4	80-120			
Ethylbenzene	82.8		"	100		82.8	80-120			
Xylene (p/m)	182		"	200		91.0	80-120			
Xylene (o)	86.6		"	100		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	111		"	100		111	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80-120			

Matrix Spike (EJ40413-MS1)

Source: 4129005-04

Prepared: 09/30/04 Analyzed: 10/04/04

Benzene	89.7		ug/l	100	ND	89.7	80-120			
Toluene	90.5		"	100	ND	90.5	80-120			
Ethylbenzene	87.6		"	100	ND	87.6	80-120			
Xylene (p/m)	196		"	200	ND	98.0	80-120			
Xylene (o)	95.7		"	100	ND	95.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

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Page 5 of 8

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EJ40413 - EPA 5030C (GC)

Matrix Spike Dup (EJ40413-MSD1)

Source: 4I29005-04

Prepared: 09/30/04 Analyzed: 10/04/04

Benzene	89.7		ug/l	100	ND	89.7	80-120	0.00	20	
Toluene	90.5		"	100	ND	90.5	80-120	0.00	20	
Ethylbenzene	87.6		"	100	ND	87.6	80-120	0.00	20	
Xylene (p/m)	196		"	200	ND	98.0	80-120	0.00	20	
Xylene (o)	95.7		"	100	ND	95.7	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Batch EJ40603 - EPA 5030C (GC)

Blank (EJ40603-BLK1)

Prepared & Analyzed: 10/05/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	88.0		ug/l	100		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	89.6		"	100		89.6	80-120			

LCS (EJ40603-BS1)

Prepared & Analyzed: 10/05/04

Benzene	92.2		ug/l	100		92.2	80-120			
Toluene	93.0		"	100		93.0	80-120			
Ethylbenzene	85.5		"	100		85.5	80-120			
Xylene (p/m)	190		"	200		95.0	80-120			
Xylene (o)	89.7		"	100		89.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	110		"	100		110	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			

Environmental Lab of Texas

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Page 6 of 8

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ40603 - EPA 5030C (GC)

Calibration Check (EJ40603-CCV1)

Prepared & Analyzed: 10/05/04

Benzene	92.6		ug/l	100		92.6	80-120			
Toluene	95.6		"	100		95.6	80-120			
Ethylbenzene	88.7		"	100		88.7	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	93.6		"	100		93.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Matrix Spike (EJ40603-MS1)

Source: 4I29005-10

Prepared & Analyzed: 10/05/04

Benzene	85.1		ug/l	100	ND	85.1	80-120			
Toluene	84.2		"	100	ND	84.2	80-120			
Ethylbenzene	80.0		"	100	ND	80.0	80-120			
Xylene (p/m)	173		"	200	ND	86.5	80-120			
Xylene (o)	83.4		"	100	ND	83.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	98.5		"	100		98.5	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			

Matrix Spike Dup (EJ40603-MSD1)

Source: 4I29005-10

Prepared & Analyzed: 10/05/04

Benzene	91.3		ug/l	100	ND	91.3	80-120	7.03	20	
Toluene	91.8		"	100	ND	91.8	80-120	8.64	20	
Ethylbenzene	83.5		"	100	ND	83.5	80-120	4.28	20	
Xylene (p/m)	185		"	200	ND	92.5	80-120	6.70	20	
Xylene (o)	87.7		"	100	ND	87.7	80-120	5.03	20	
Surrogate: a,a,a-Trifluorotoluene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	120		"	100		120	80-120			

Environmental Lab of Texas

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REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-C-Line Pipeline
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
10/07/04 10:19

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

10/7/04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

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Environmental Law of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Michael H. Stewart

Company Name Remediacon, Inc.

Company Address: P. O. Box 302

City/State/Zip: Evergreen, Colorado 80437

Telephone No: (303) 674-4370

Fax No: (720) 528-8132

Sample Signature

532

Benjamin	Benjamin
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Answer For

Project Name: DEFS - C-Line Pipeline

Project #1

Project Loc: Lea County, New Mexico

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LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	lit	Fe ₂	HC	NaOH	ISO	Name	Class (Speed)	Water	Sediment	BOD	Diss (ppm)	TPT: 410.2-8015A: 1005-1006	Colony (Ca. M/L N)	Ammonia (Ca. 504-CCO ₂ -HCO ₃)	SAR/ESP/CEC	Notes: As Ag Ba Ca Cr Pb Hg S	Volatiles	Semivolatile	OTEC 80210-9031/OTEX 1200	FGI	NORM	RUSH TAT (Pre-Schedule Standard TAT)
1329905	MW-6 (0409281045)	9/28/04	1045	2	✓		✓					✓											✓			✓
	MW-5 (0409281125)	9/28/04	1125	2	✓		✓					✓											✓			✓
	MW-9 (0409281130)	9/28/04	1130	2	✓		✓					✓											✓			✓
	MW-7 (0409281215)	9/28/04	1215	2	✓		✓					✓											✓			✓
	MW-7 (115/1250)	9/28/04	1215	4	✓		✓					✓											✓			✓
	MW-3 (0409281220)	9/28/04	1220	2	✓		✓					✓											✓			✓
	MW-8 (0409281235)	9/28/04	1235	2	✓		✓					✓											✓			✓
	MW-2 (0409281340)	9/28/04	1340	2	✓		✓					✓											✓			✓
	Duplicate (0409281600)	9/28/04	1600	2	✓		✓					✓											✓			✓
	T-2 Blank	9/28/04		2	✓		✓					✓											✓			✓

Special instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoice to Stephen Weather's, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Field Services 303 17th Street Suite 2500 Denver CO 80202

Reinrichen by

Day	Time
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Received by

Date	Time
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Discharged by

Sligo

Date	Time

Received by ELDT

Time Date

4-29-01 0952

4-29-01 0952

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Environmental Lab of Texas **Variance / Corrective Action Report – Sample Log-In**

Client: Bremediation Inc

Date/Time: 09-29-04 @ 1015

Order #: 4129005

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	-1.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding: _____

Corrective Action Taken:
