

1R - 400

REPORTS

DATE:

3/16/2004

Remediacon Incorporated

Geological and Engineering Services
mstewart@remediacon.com

PO Box 302, Evergreen, Colorado 80437

Telephone: 303.674.4370

Facsimile: 720.528.8132

March 16, 2004

Mr. Stephen Weathers
Duke Energy Field Services, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Re: February 2004 Groundwater Monitoring Summary at the X-Line Pipeline
Release, Etcheverry Ranch, Lea County, New Mexico
(Unit B, Section 7, Township 15 South, Range 34 East:)

IR-400

Dear Mr. Weathers:

This letter summarizes the results of the February 2004 groundwater monitoring activities completed for Duke Energy Field Services, LP (DEFS) at the X-Line Pipeline Release on the Etcheverry Ranch at coordinates latitude 33° 02' 11", longitude 103° 32' 48".

The X-line remediation system includes the following components as shown on Figure 1:

- A free product removal system located in well MW-8. The free product thickness appears to be declining.
- An air sparge (AS) system that includes 14 sparge points that are shown as yellow circles on Figure 1:
- A soil vapor extraction (SVE) system that includes eight vapor extraction wells in four clusters (red circles, Figure 1). The SVE system will be attached to MW-8 to expedite the removal of free product.

The AS and SVE components became fully operational in mid-June 2003. The free product collection system has operated since the last week in July 2003.

Groundwater Monitoring Procedures and Results

Seven groundwater-monitoring wells, MW-1 through MW-7, are present at the site. The well locations are shown on Figure 1. Monitoring well construction information is summarized in Table 1. These wells are sampled on a quarterly basis, and the samples are analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX).

The seven wells were sampled on February 18, 2004. The depths to water were first measured in each well. The wells were then purged and sampled using disposable bailers. Well purging consisted of evacuating a minimum of three casing volumes of water and then continuing bailing until the field parameters temperature, pH and conductivity stabilized.

Unfiltered samples were collected from each well upon stabilization. Each sample was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX). A field duplicate was collected from well MW-3. The laboratory also provided a trip blank. The samples were placed in an ice-filled chest immediately upon collection. The samples were delivered directly to the analytical laboratory Environmental Labs of Texas in Midland Texas using standard chain-of-custody protocol. All development and purge water was disposed of at an approved OCD facility.

The groundwater elevation measurements for all sampling episodes are summarized in Table 2. Hydrographs for wells MW-1 through MW-6 are included on Figure 2. Well MW-8 is not included in the data because the periodic removal of free product results in a continuing non-equilibrated state.

The relative water-table elevation differences between wells have remained essentially constant over the approximate 21-month measurement period demonstrating that deployment of the AS and SVE systems has not substantially affected the equilibrated groundwater flow regime. Wells MW-2 and MW-3 showed a greater decrease in the water-table elevations than the other wells based upon the February 2004 measurements. These decreases may originate from the SVE system sucking water along with vapors during December and early January. Lowering the vacuum on the system rectified this condition.

A water-table contour map based upon the February 2004 measurements was generated using the Surfer program with a kriging option. The map is reproduced as Figure 3. The water-table contours in Figure 3 indicate that groundwater gradient is shallow with a predominately eastward groundwater flow direction across the site. The Etcheverry Ranch residences lie approximately 1 mile south of the release location and cross-gradient from any impacted groundwater.

Table 3 summarizes the February 2004 sampling results. A copy of the laboratory report is attached. The February 2004 benzene distribution is depicted on Figure 4. None of the down-gradient boundary wells (MW-4, MW-5, MW-6 and MW-7) contained detectable concentrations of the BTEX constituents.

The laboratory quality control data included in the attached report indicated that: 1) the surrogate spikes for MW-2 were outside the acceptable range; and 2) the m/p xylene concentrations were estimated in the original and duplicate from MW-3 because they were both below the method detection limit. The duplicate samples from well MW-2 agree well as shown on Table 4. There were no BTEX constituents detected in the trip blank. Based upon this information, Remediacon concludes that the data is acceptable for its intended use.

The BTEX data collected for DEFS since the start of the project are summarized in Table 4. Examination of Table 4 indicates the following:

1. BTEX constituents have either never been detected or reported at the reporting limit in wells MW-1 (up-gradient), MW-4 and MW-7;
2. The trace hydrocarbon constituent concentrations initially detected in MW-5 and MW-6 have remained below the method detection limits since July 2003;
3. The BTEX concentrations in interior wells MW-2 and MW-3 have declined substantially from the pre-remediation concentrations. The benzene concentrations for these wells are graphed in Figure 5. This continued decline demonstrates that the remediation system has stabilized the plume.

Remediacom recommends that groundwater samples be collected from MW-1 through MW-7 in June 2004. The results will be evaluated and, if appropriate, recommendations for modification of the monitoring program will be made. The free product collection system, the AS system, and the SVE system will continue to operate.

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

Respectfully Submitted,
REMEDIA.COM INCORPORATED

Michael H. Stewart

Michael H. Stewart, P.E.
Principal Engineer

MHS:tbm

TABLES

Table 1 – Monitoring Well Completions

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

Notes: All units in Feet

Hydrocarbon extraction well (MW-8) completed between approximately 80 and 100 feet

Table 2- Measured Water Table Elevations

Well	5/1/2002	9/6/2002	4/28/2003	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04
MW-1	4,088.54	4088.53	4,088.55	4088.55	4088.52	4088.54	4088.53	4088.60	4088.59	4089.19
MW-2	4,089.02	4089.03	4,089.05	4089.07	4089.04	4089.09	4089.06	4089.11	4089.13	4088.90
MW-3	4,088.83	4088.86	4,088.86	4088.85	4088.82	4088.87	4088.84	4088.90	4088.95	4088.82
MW-4	4,088.63	4088.73	4,088.73	4088.73	4088.70	4088.72	4088.71	4088.78	4088.78	4088.74
MW-5	4,088.60	4088.68	4,088.67	4088.65	4088.63	4088.66	4088.65	4088.70	4088.70	4088.65
MW-6	4,088.69	4088.71	4,088.70	4088.69	4088.66	4088.70	4088.68	4088.74	4088.74	4088.69
MW-7				4088.04	4088.01	4088.04	4088.03	4088.08	4088.08	4087.66

All units in feet

Table 3 – February 2004 Groundwater Monitoring Results

Well	Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW-1	<0.001	<0.001	<0.001	<0.001
MW-2	<0.001	0.00652	0.00301	0.0514
MW-3	0.0273/0.0287	<0.001/<0.001	0.0132/0.0144	0.00069*/0.00064*
MW-4	<0.001	<0.001	<0.001	<0.001
MW-5	<0.001	<0.001	<0.001	<0.001
MW-6	<0.001	<0.001	<0.001	<0.001
MW-7	<0.001	<0.001	<0.001	<0.001
Trip blank	<0.001	<0.001	<0.001	<0.001

Notes: 1) All units in mg/l

2) Duplicate sample results separated by a slash "/"

3) * The xylene concentrations from MW-3 are below the method detection limit and are qualified as estimates.

Table 4 – Summary of Laboratory Data

Benzene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/2004
MW-1	<0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.0255	0.145	0.182	0.074	0.155	0.024	0.022	0.001	0.013	<0.001
MW-3	0.061	0.176	0.099	0.047	0.063	0.017	0.049	0.044	0.048	0.0273/0.0287
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	<0.002	0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001

Notes: All units in mg/l. Duplicate sample results were averaged together

Toluene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/2004
MW-1	<0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.107	0.833	0.092	0.066	0.15	0.092	0.051	0.004	0.017	0.00652
MW-3	<0.002	0.004	0.005	<0.001	0.002	<0.001	<0.001	<0.001	0.003	<0.001/<0.001
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001

Notes: All units in mg/l. Duplicate sample results were averaged together

Table 4 – Summary of Laboratory Data (continued)

Ethylbenzene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/2004
MW-1	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.013	0.062	0.121	0.069	0.112	0.012	0.012	0.002	0.005	0.00301
MW-3	0.023	0.023	0.03	0.02	0.023	0.006	0.02	0.018	0.017	0.0132/0.0144
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	0.004	0.002	0.002	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001

Total Xylenes

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/2004
MW-1	<0.006	<0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.38	1.27	0.133	0.103	0.186	0.179	0.079	0.017	0.034	0.0514
MW-3	0.189	0.451	0.039	0.006	0.007	0.001	0.001	0.001	0.004	0.00069*/0.00064*
MW-4	<0.006	<0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	0.011	<0.006	0.003	0.003	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	0.123	0.047	0.01	<0.001	0.004	<0.001	<0.001	0.003	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.001	<0.001

Notes: All units in mg/l
Duplicate sample results were averaged together

FIGURES

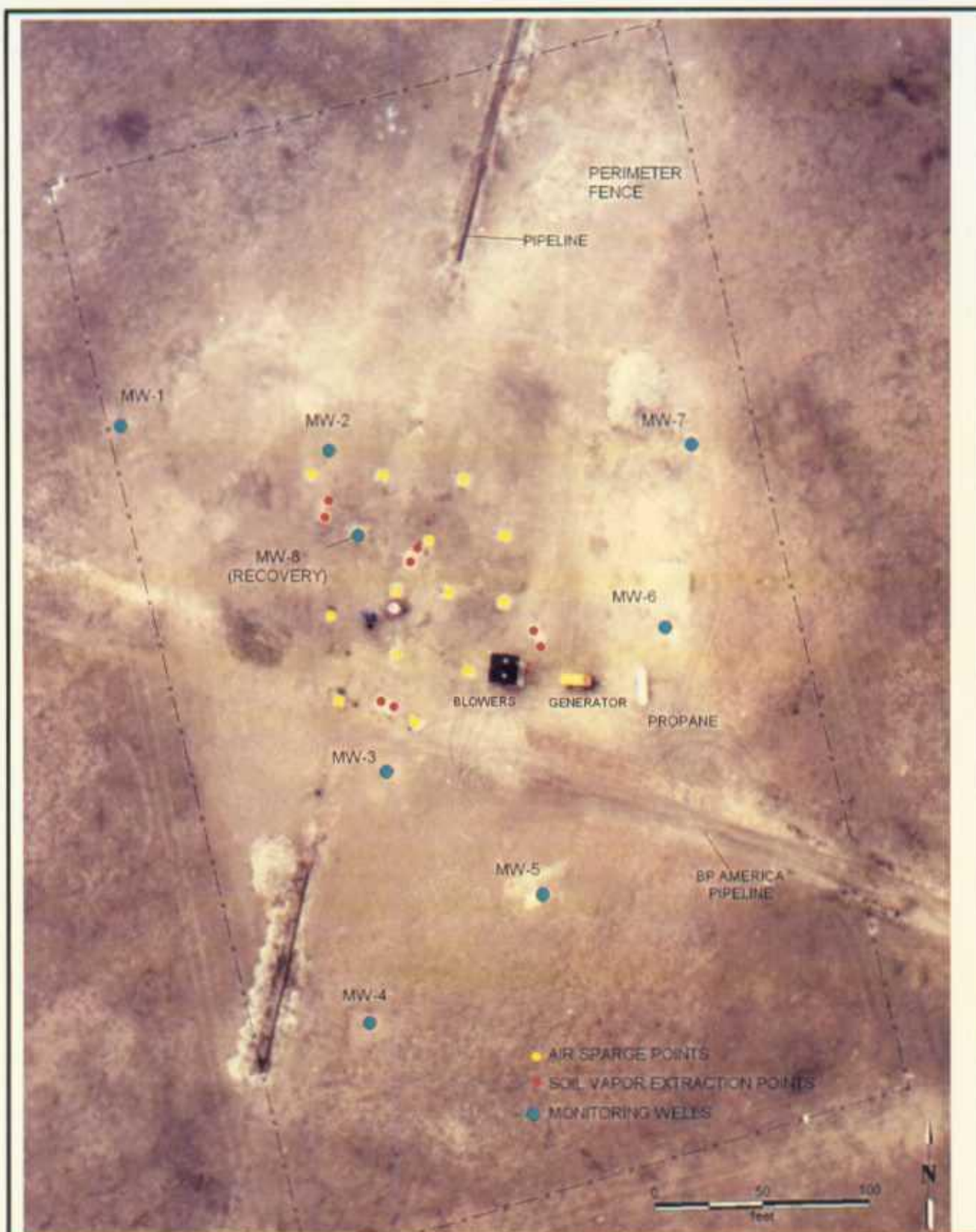


Figure 1 – Facility Configuration
X-Line Remediation

Duke Energy
Field Services

DRAWN BY: MHS

REVISED:

DATE: 3/04

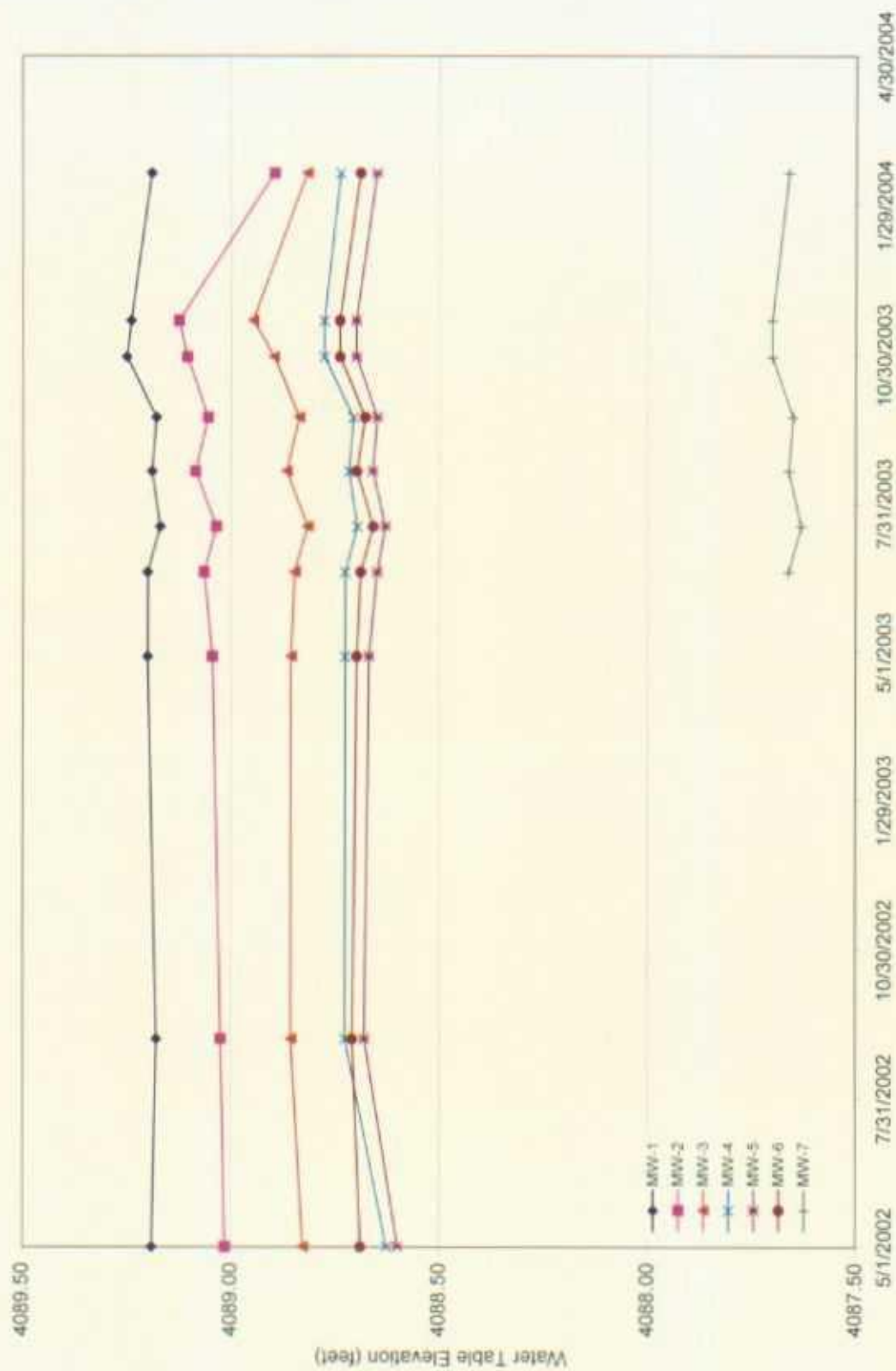


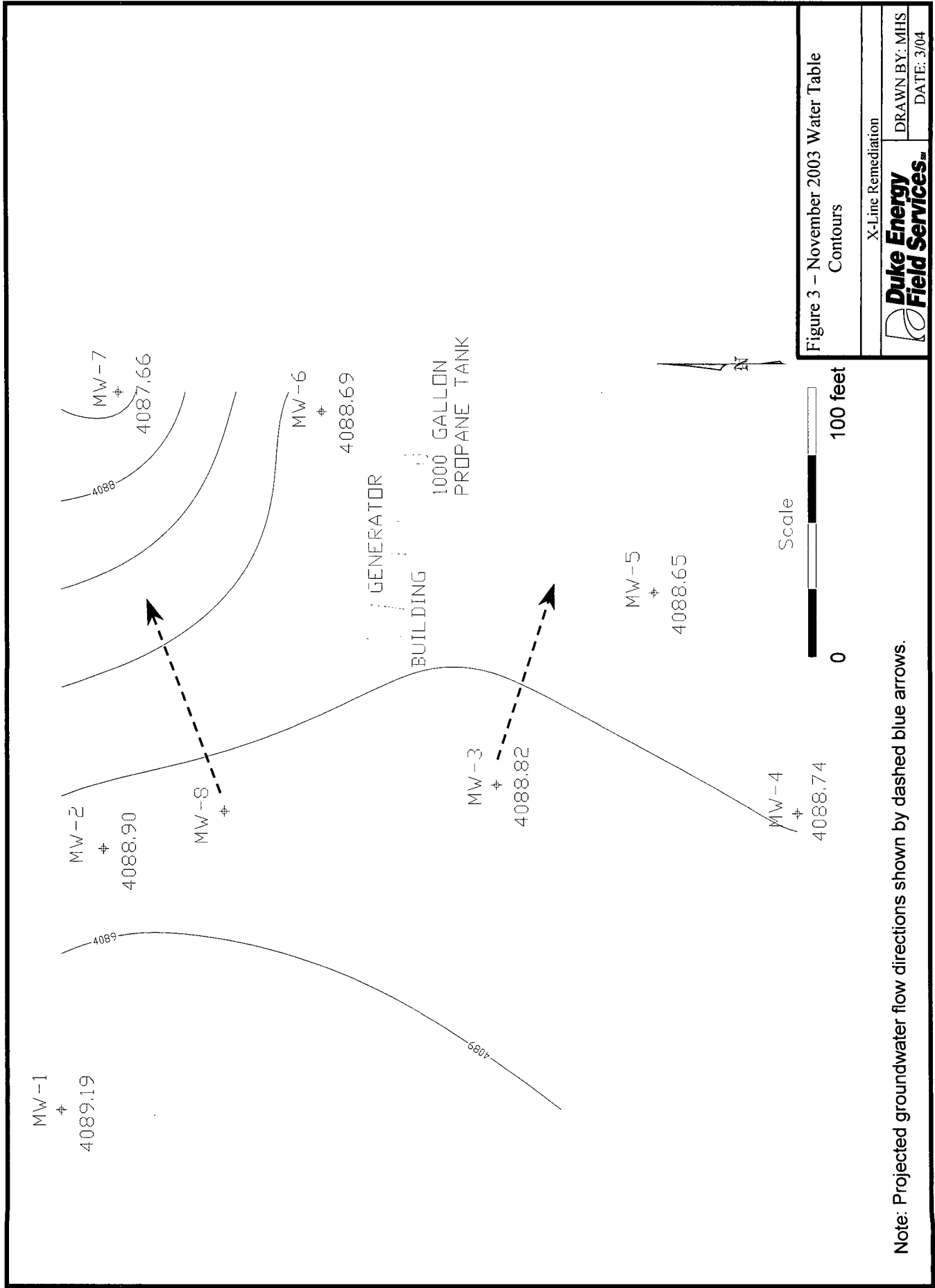
Figure 2 - Well Hydrographs

X-1 Inc Remediation

Duke Energy
Field Services

DRAWN BY: MHS

DATE: 3/04



Note: Projected groundwater flow directions shown by dashed blue arrows.

X-Line Remediation

Duke Energy
Field Services

DRAWN BY: MHS

DATE: 3/04

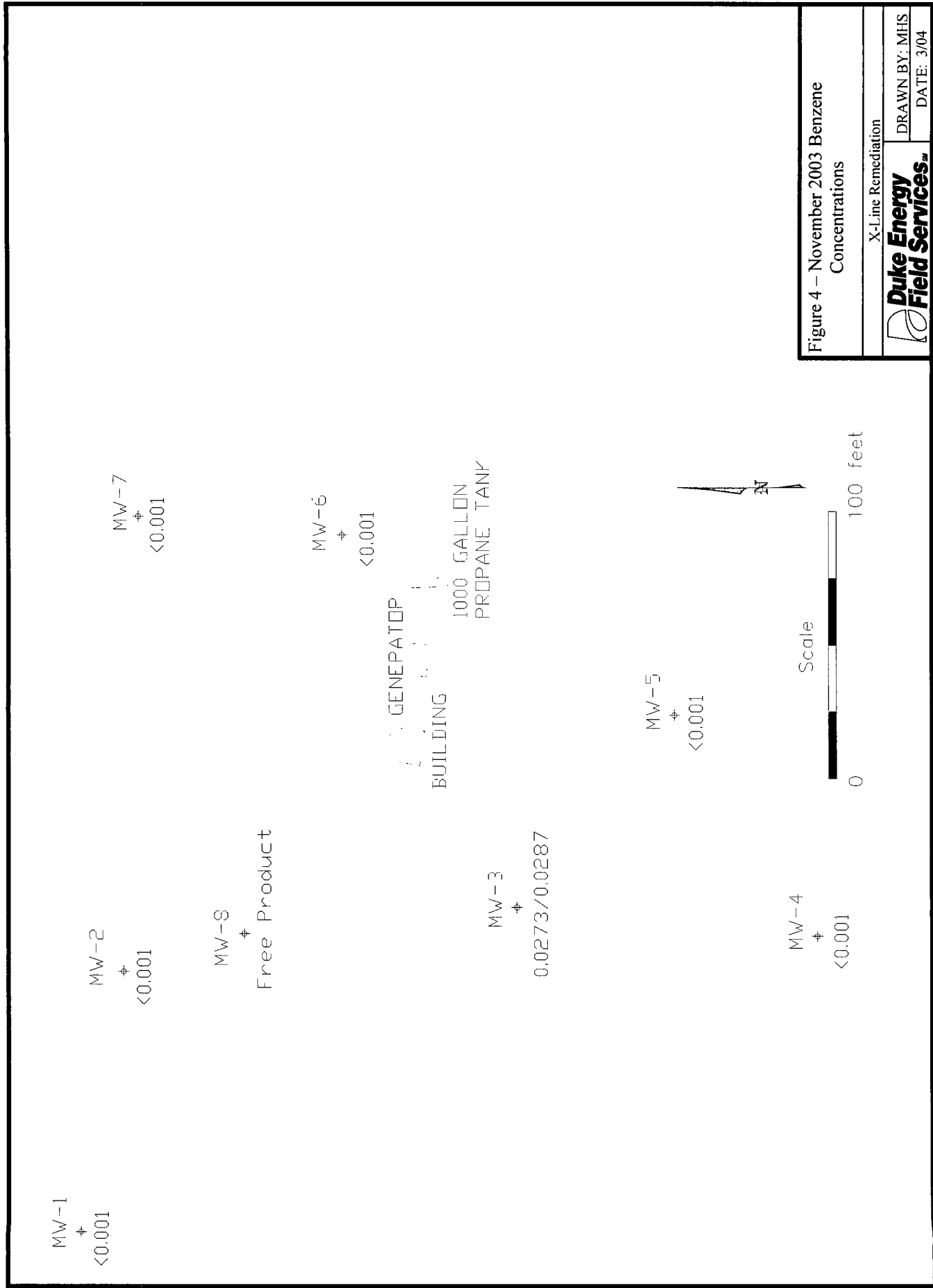


Figure 4 - November 2003 Benzene Concentrations

X-Line Remediation

Duke Energy
Field Services

DRAWN BY: MHS
DATE: 3/04

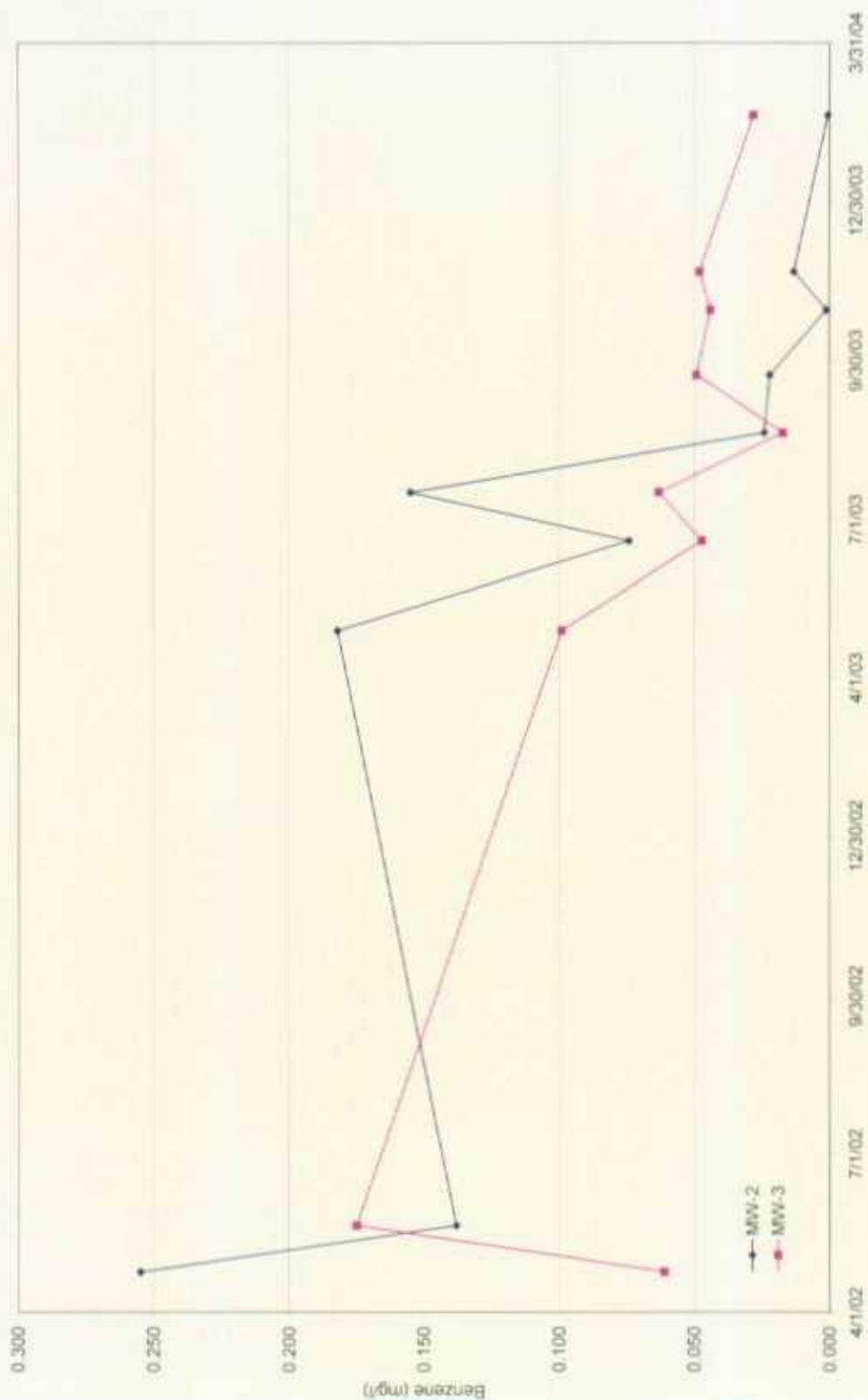


Figure 5 - Benzene Concentrations in MW-2 and MW-3

X-Line Remediation

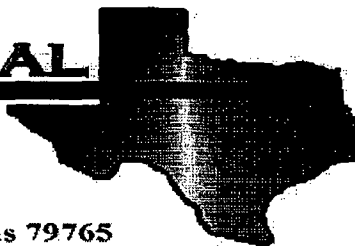
Duke Energy
Field Services

DRAWN BY: MHS

DATE: 3/04

ANALYTICAL LABORATORY REPORT

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Michael Stewart

REMEDIACON

P.O. Box 302

Evergreen, CO 80437

Project: DEFS-X-Line

Project Number: None Given

Location: Lea Co., NM

Lab Order Number: 4B20007

Report Date: 02/26/04

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-X-Line
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132
Reported:
02/26/04 11:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4B20007-01	Water	02/18/04 12:05	02/20/04 12:35
MW-2	4B20007-02	Water	02/18/04 13:00	02/20/04 12:35
MW-7	4B20007-03	Water	02/18/04 14:40	02/20/04 12:35
MW-6	4B20007-04	Water	02/18/04 15:00	02/20/04 12:35
MW-5	4B20007-05	Water	02/18/04 15:35	02/20/04 12:35
MW-4	4B20007-06	Water	02/18/04 16:05	02/20/04 12:35
MW-3	4B20007-07	Water	02/18/04 16:45	02/20/04 12:35
Duplicate	4B20007-08	Water	02/18/04 20:00	02/20/04 12:35
Trip Blank	4B20007-09	Water	02/18/04 00:00	02/20/04 12:35

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-X-Line
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported:
02/26/04 11:27

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4B20007-01)									
Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	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		119 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.5 %	80-120		"	"	"	"	

MW-2 (4B20007-02)

Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	
Toluene	0.00652	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00301	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0367	0.00100	"	"	"	"	"	"	
Xylene (o)	0.0147	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		143 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		180 %	80-120		"	"	"	"	S-04

MW-7 (4B20007-03)

Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	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		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		"	"	"	"	

MW-6 (4B20007-04)

Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	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		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.


Quality Assurance Review

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-X-Line
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported:
02/26/04 11:27

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4B20007-05)									
Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	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		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	80-120		"	"	"	"	

MW-4 (4B20007-06)

Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	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		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		"	"	"	"	

MW-3 (4B20007-07)

Benzene	0.0273	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.0132	0.00100	"	"	"	"	"	"	
Xylene (p/m)	J [0.000692]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		"	"	"	"	

Duplicate (4B20007-08)

Benzene	0.0287	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.0144	0.00100	"	"	"	"	"	"	
Xylene (p/m)	J [0.000638]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		119 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	80-120		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.


Quality Assurance Review

Page 3 of 6

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-X-Line
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported:
02/26/04 11:27

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (4B20007-09)									
Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	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		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

Page 4 of 6

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-X-Line
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported:
02/26/04 11:27

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 EB42507 - EPA 5030C (GC)**Blank (EB42507-BLK1)**

Prepared & Analyzed: 02/24/04

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	23.3		ug/l	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	23.9		"	20.0		120	80-120			

LCS (EB42507-BS1)

Prepared & Analyzed: 02/24/04

Benzene	87.3		ug/l	100		87.3	80-120			
Toluene	90.1		"	100		90.1	80-120			
Ethylbenzene	94.1		"	100		94.1	80-120			
Xylene (p/m)	203		"	200		102	80-120			
Xylene (o)	97.8		"	100		97.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.8		"	20.0		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	22.9		"	20.0		114	80-120			

Calibration Check (EB42507-CCV1)

Prepared: 02/24/04 Analyzed: 02/25/04

Benzene	92.7		ug/l	100		92.7	80-120			
Toluene	94.7		"	100		94.7	80-120			
Ethylbenzene	94.2		"	100		94.2	80-120			
Xylene (p/m)	194		"	200		97.0	80-120			
Xylene (o)	98.5		"	100		98.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.1		"	20.0		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	20.1		"	20.0		100	80-120			

Duplicate (EB42507-DUP1)

Source: 4B20007-09

Prepared: 02/24/04 Analyzed: 02/25/04

Benzene	ND	0.00100	mg/L		ND				20	
Toluene	ND	0.00100	"		ND				20	
Ethylbenzene	ND	0.00100	"		ND				20	
Xylene (p/m)	ND	0.00100	"		ND				20	
Xylene (o)	ND	0.00100	"		ND				20	
Surrogate: a,a,a-Trifluorotoluene	16.9		ug/l	20.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.7		"	20.0		98.5	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Ralanda K. Smith
Quality Assurance Review

REMEDIACON
P.O. Box 302
Evergreen CO, 80437

Project: DEFS-X-Line
Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported:
02/26/04 11:27

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

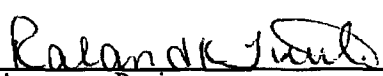
NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Quality Assurance Review

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Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Remediation, Inc.Date/Time: 02-20-04 @ 1330Order #: 4320007Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	3, 5 C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Custody Seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not present
Custody Seals intact on sample bottles?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not present
Chain of custody present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Chain of Custody signed when relinquished and received?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Chain of custody agrees with sample label(s)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Container labels legible and intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples properly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample bottles intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:
