175IHSSF238

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DocDate	6/28/2001
DocRcvd	2/20/2007
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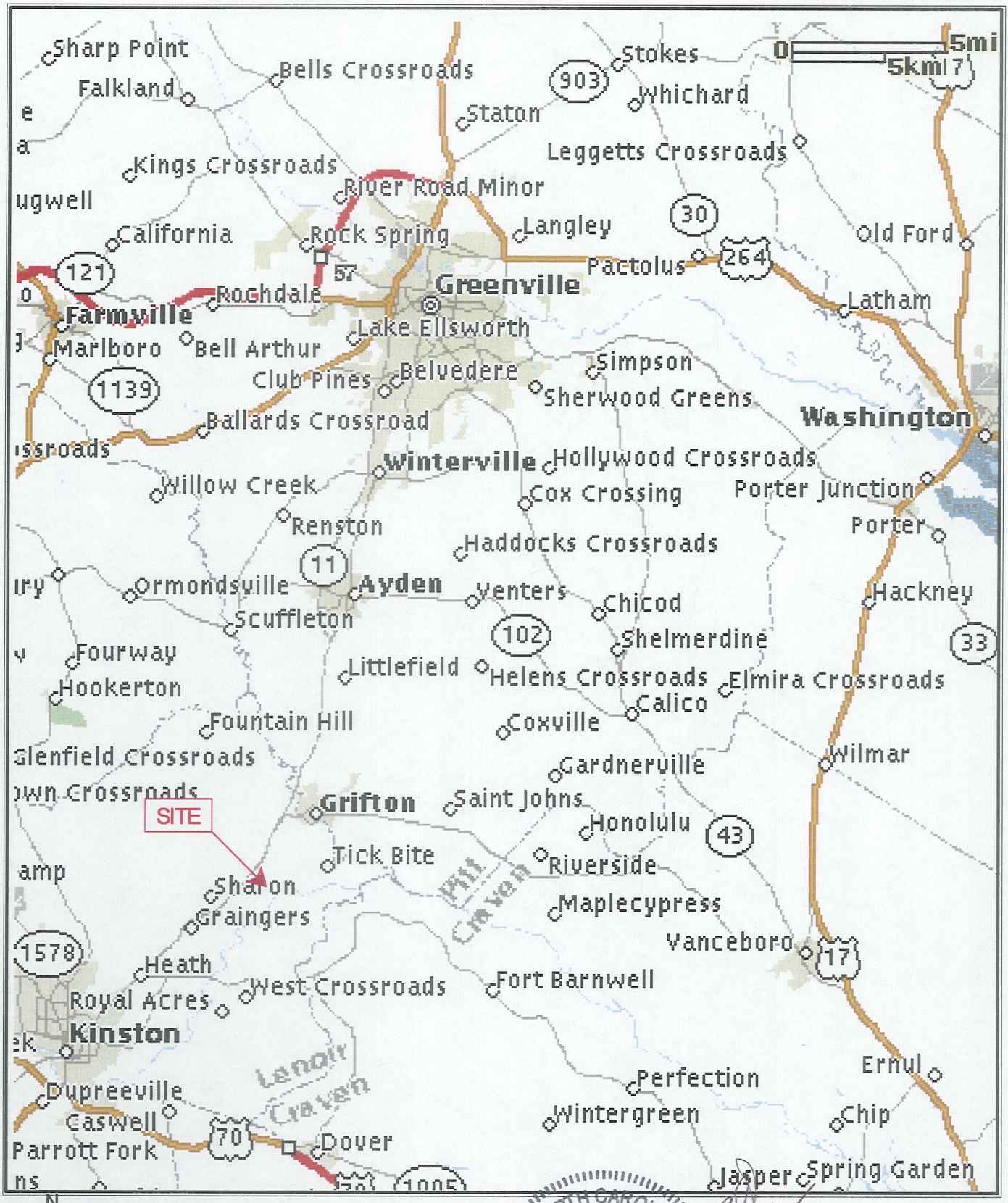
Division	Waste Management
Section	Superfund
Program	IHS (IHS)
DocCat	Facility

Section e

Plans and Specifications



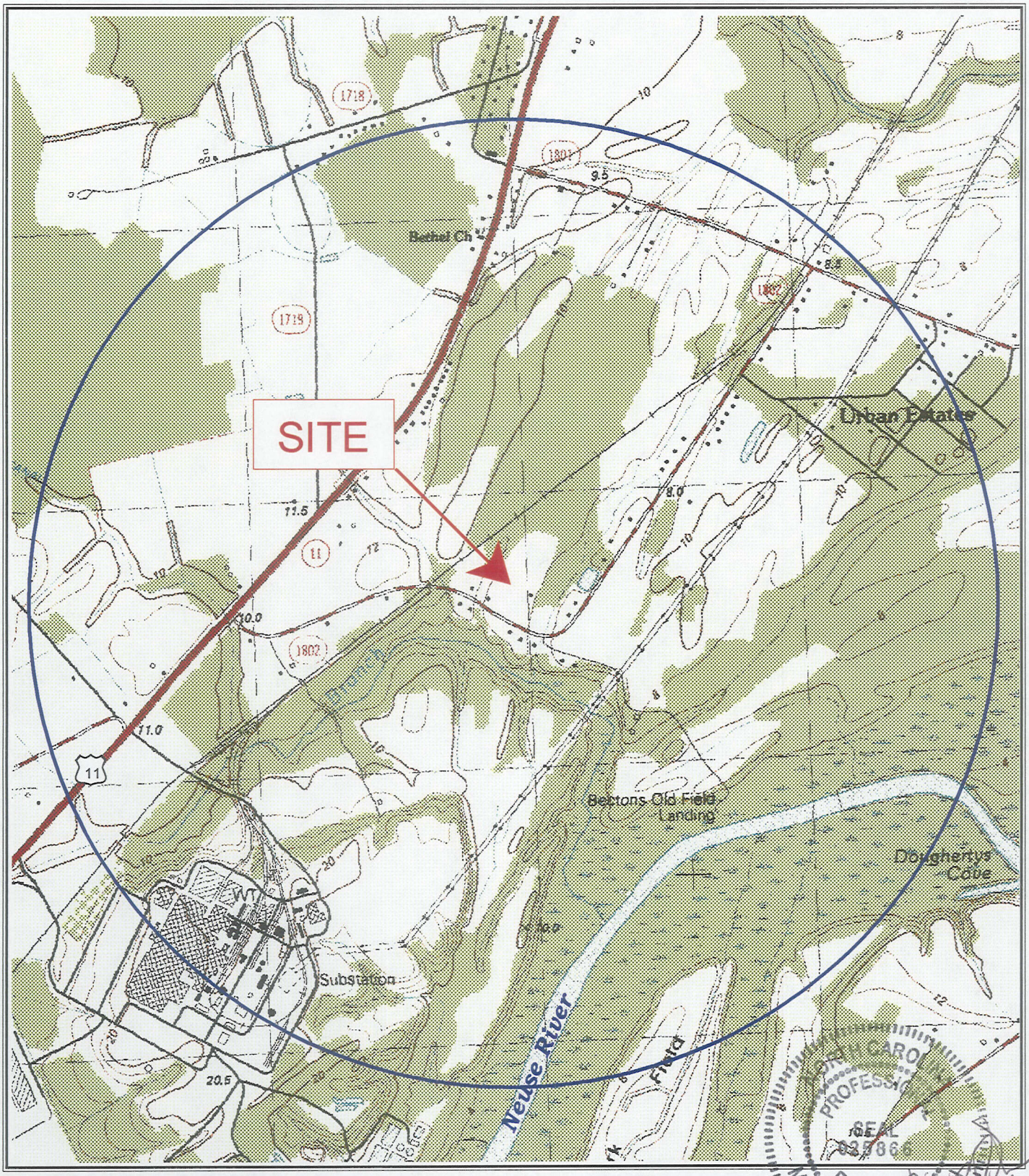
NORTH CAROLINA PROFESSIONAL SEAL 025866 ENGINEER MARK B. ROBINSON

DuPont

CORPORATE REMEDIATION GROUP
An Alliance between DuPont and URS Diamond
6324 Fairveiw Road
Charlotte, NC 28210

TITLE:
Site Location Map
DuPont Kentec Facility

DRAWN:	APPROVED:	PROJECT NO.:
EMA	AFA	
CHECKED:	DATE:	FIGURE NO.:
MH	6/5/01	
FILE NAME:	REVISION:	



N

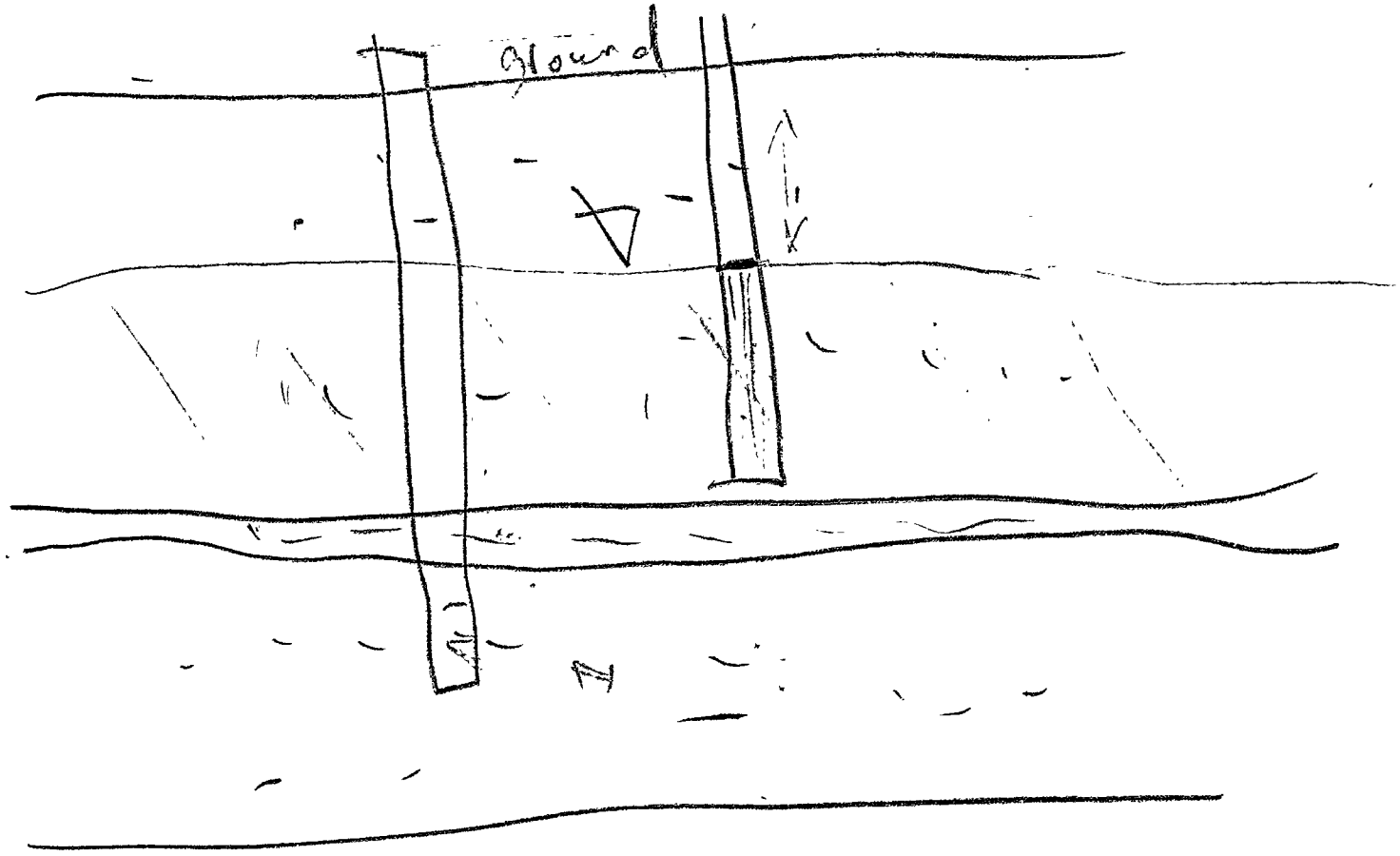
0.3 0 0.3 0.6 0.9 Miles

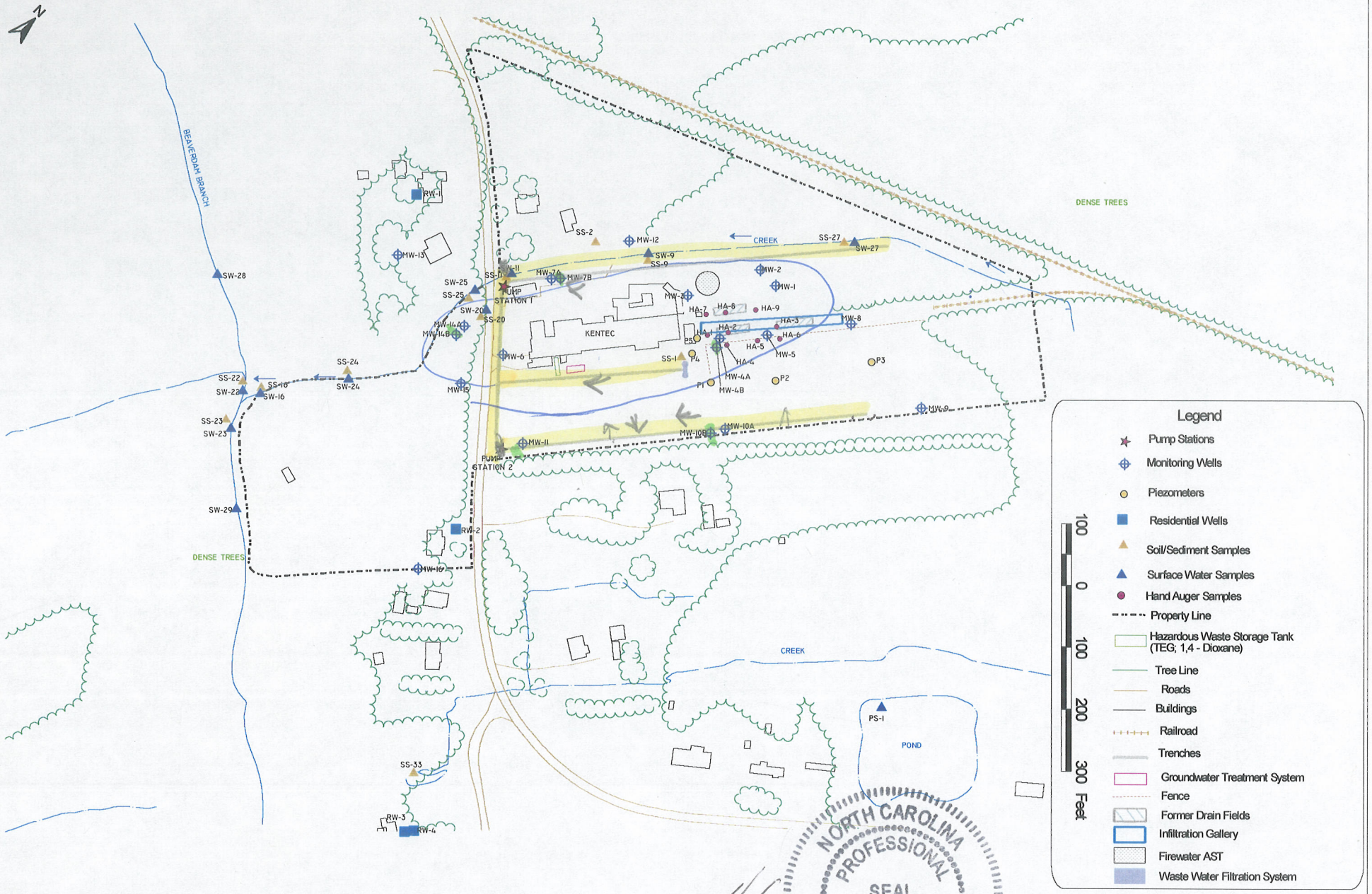
Contour Interval - 2 Meters

Reference: USGS 7.5 minute topographic map, Grifton, NC, 1988, Quadrangle

NORTH CAROLINA PROFESSIONAL SEAL 025864 ENGINEER MARK B. ROBINSON

DUPONT CORPORATE REMEDIATION GROUP *An Alliance between* *DuPont and URS Diamond* 6324 Fairveiw Road Charlotte, NC 28210	TITLE: Topographic Site Location Map Showing One Mile Radius of DuPont Kentec Site	DRAWN: EA	APPROVED: AFA	PROJECT NO.:
		CHECKED: MH	DATE: 5/1/01	FIGURE NO.:
		FILE NAME:	REVISION:	


Ground



NORTH CAROLINA PROFESSIONAL SEAL 025866 ENGINEER MARK B. ROBINSON

7/6/01

DUPONT

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Diamond
6324 Fairveiw Road
Charlotte, NC 28210

DuPont Kentec Facility Site Layout Map

DRAWN	APPROVED	PROJECT #
EA	AFA	
CHECKED	DATE	FIGURE #
MH	6/27/01	
FILE NAME	REVISION	

Section i

Description of Proposed Injection Procedure

i. Describe the proposed injection procedure and describe expected changes in pressure and direction of movement of injected fluid. Applicant must demonstrate complete hydraulic control over contaminant plume and injectate if injectate does not meet 2L standards.

Groundwater Modeling

Predictive groundwater flow modeling was performed to evaluate the impact to existing aquifer conditions attributable to the infiltration of treated groundwater in the area of the proposed infiltration gallery. The computer program Visual MODFLOW, created by Waterloo Hydrogeologic Inc., was used to model these conditions. Visual MODFLOW is a numerical model that integrates the commonly used USGS models Modflow, Modpath, and MT3DMS. Visual MODFLOW input and output files are included with this submittal. In addition, graphical depictions of the model domain, select input parameters and model output results are included in this section.

The Visual MODFLOW process was initiated by developing a grid of the subject site to create nodes and finite difference blocks (cells) for which specific parameters were assigned to account for variations in site conditions. These parameters included model thickness, horizontal and vertical hydraulic conductivity, specific storage, specific yield, total and effective porosity, recharge and hydraulic boundaries (i.e., existing heads in interceptor trench based on 6 gpm system groundwater extraction rate). With the exception of the hydraulic boundaries, the above listed parameters were adjusted as part of the model calibration process in order to produce model results that matched the values measured in the field (such as the existing potentiometric surface). The estimation of these parameters was maintained within data ranges that would be expected based on the actual site conditions. For example, the hydraulic conductivity values entered in the model are similar to the hydraulic conductivity values previously calculated for the site using actual field data. The range of parameters entered in the model as part of the calibration process were as follows:

Hydraulic Conductivity (horizontal)	- 1 to 12 ft/day
Hydraulic Conductivity (vertical)	- 0.1 to 1.2 ft/day
Recharge	- 7 inches/year
Specific Storage	- 0.0002
Specific Yield	- 0.25
Effective/Total Porosity	- 25%

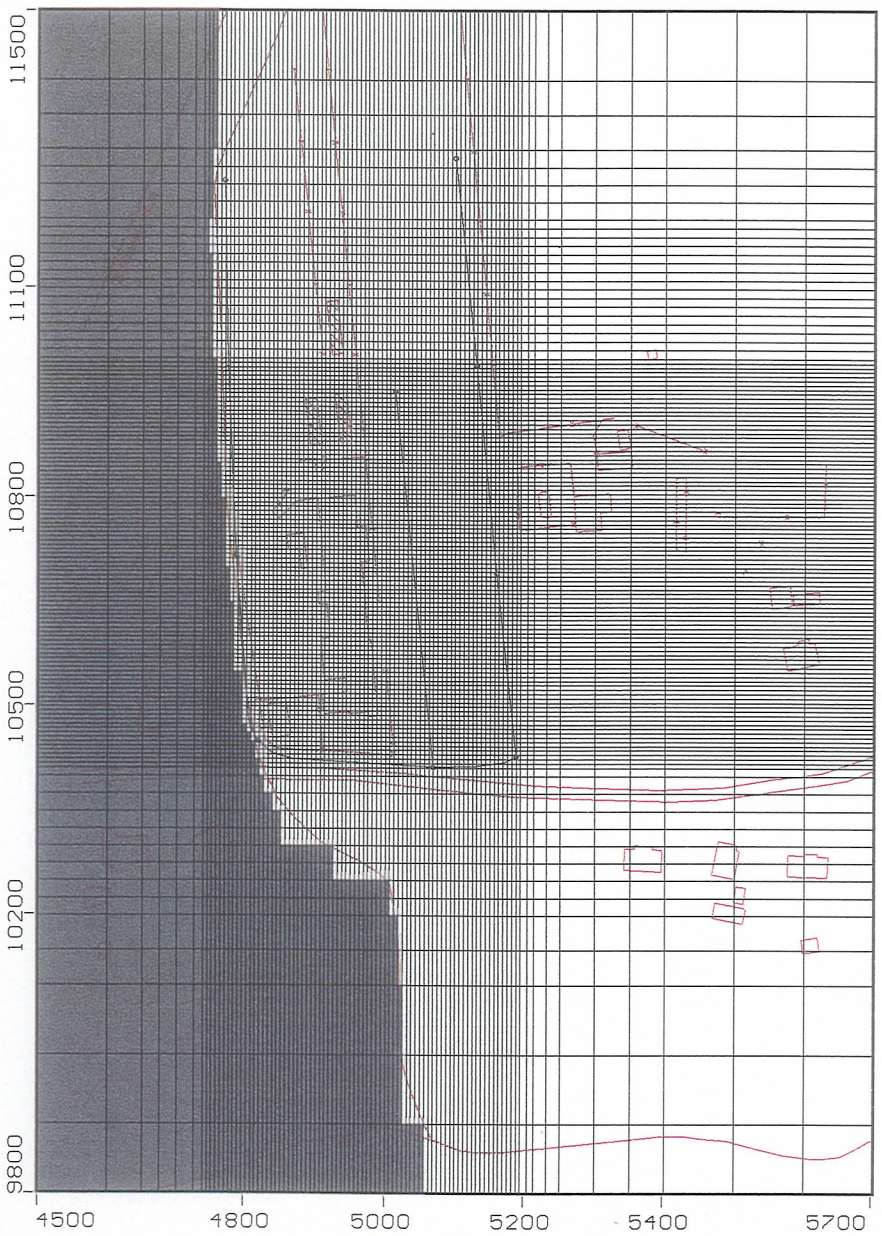
- from CAP

Once the model was calibrated to produce results similar to actual site conditions, additional hydraulic stresses were added to the model to simulate hydraulic fluxes created by the infiltration gallery. As documented in the Non-Discharge Permit Application (Section A), the proposed infiltration gallery is approximately 250 feet in length and 18.5 feet in width. The location of the proposed infiltration gallery is exhibited in Section E under the plans and

specifications. The detail layout of the infiltration gallery is presented in the System Description section of this report. Based on an anticipated cumulative infiltration rate of 6 gpm and an infiltration area of 4,625 square feet, the per square foot infiltration rate modeled for the site was 0.0013 gpm. Subsequently, each model cell within the area of the infiltration gallery was assigned an injection rate based on the area of the cell multiplied by 0.0013 gpm. To ascertain that the injected groundwater remained within the area undergoing active treatment, particles were input into the cells surrounding the infiltration gallery to monitor the forward migration and ultimate discharge into the interceptor trench.

The model was run under steady state conditions for 7,300 days (20 years) assuming a continuous flux of infiltrate at a rate of 6 gpm. Model results indicate that the maximum groundwater mounding will occur directly below the infiltration gallery at an elevation of approximately 28 ft/msl. Assuming that the infiltration gallery will be installed to a depth of 1 foot below existing grade (30 ft/msl), approximately 1 foot of distance will separate the top of the groundwater mound from the bottom of the infiltration gallery. Particle tracking completed as part of the Modpath component of Visual MODFLOW indicated that groundwater in the immediate vicinity of the infiltration gallery will ultimately discharge into the interceptor trench.

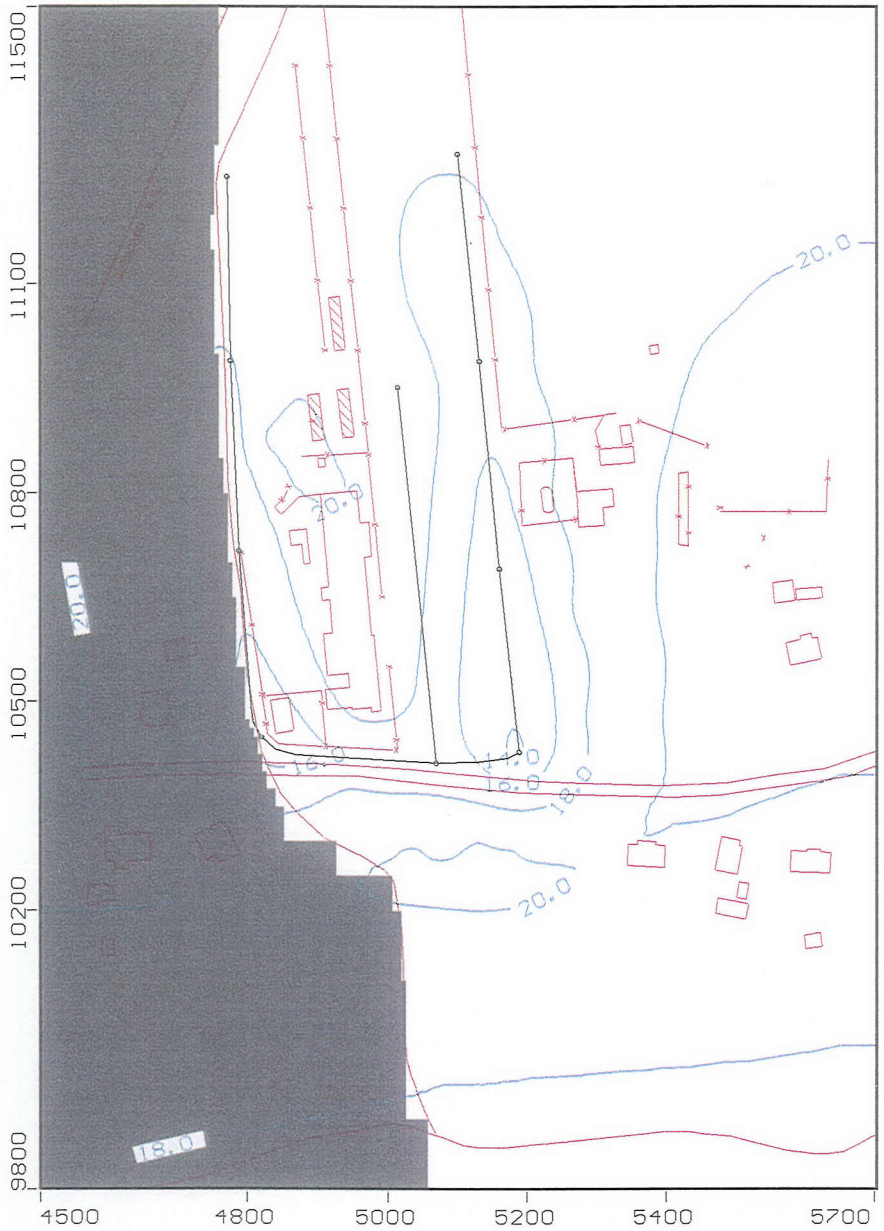
In addition to modeling the hydraulic conditions created by the infiltration gallery, the migration and reduction of existing 1,4-dioxane contaminant concentrations were also evaluated using MT3DMS. Time steps were modeled at 6-month intervals over to course of the model duration (7,300 days). As evident on the attached 1,4-Dioxane Migration and Attenuation figures, the hydraulic stresses created by the infiltration gallery ultimately expedite the restoration of groundwater quality at the subject site by increasing the hydraulic gradient and solute velocity.



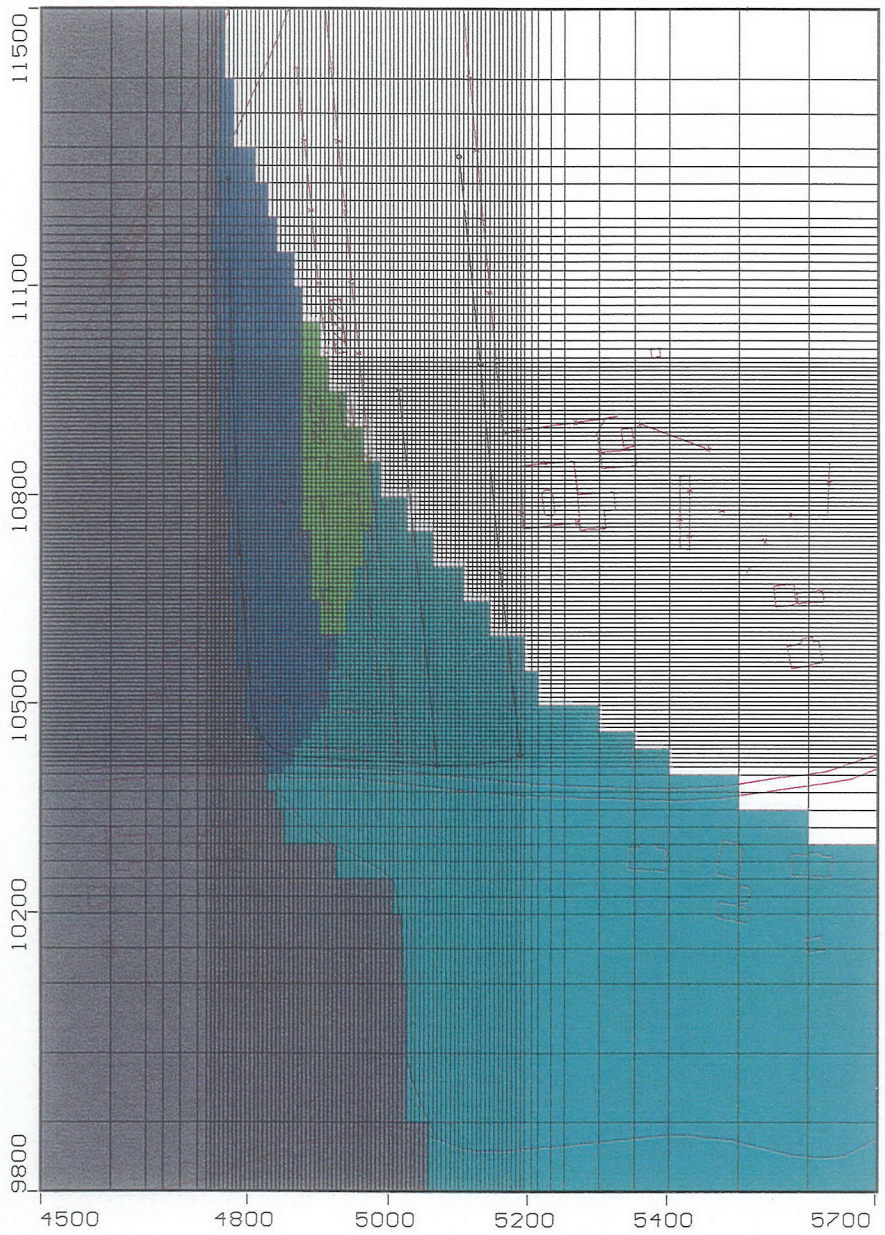
Dames & Moore/URS
Project: Kentec Remedial Design
Description: Model Grid
Modeller: R. MacWilliams
6 Jul 01

Visual MODFLOW v.2.8.2, (C) 1995–1999
Waterloo Hydrogeologic, Inc.
NC: 89 NR: 131 NL: 1
Current Layer: 1

Dames & Moore/URS Project: Kentec Remedial Design Description: Model Boundaries/MW Wells Modeller: R. MacWilliams 6 Jul 01	Visual MODFLOW v.2.8.2, (C) 1995–1999 Waterloo Hydrogeologic, Inc. NC: 89 NR: 131 NL: 1 Current Layer: 1

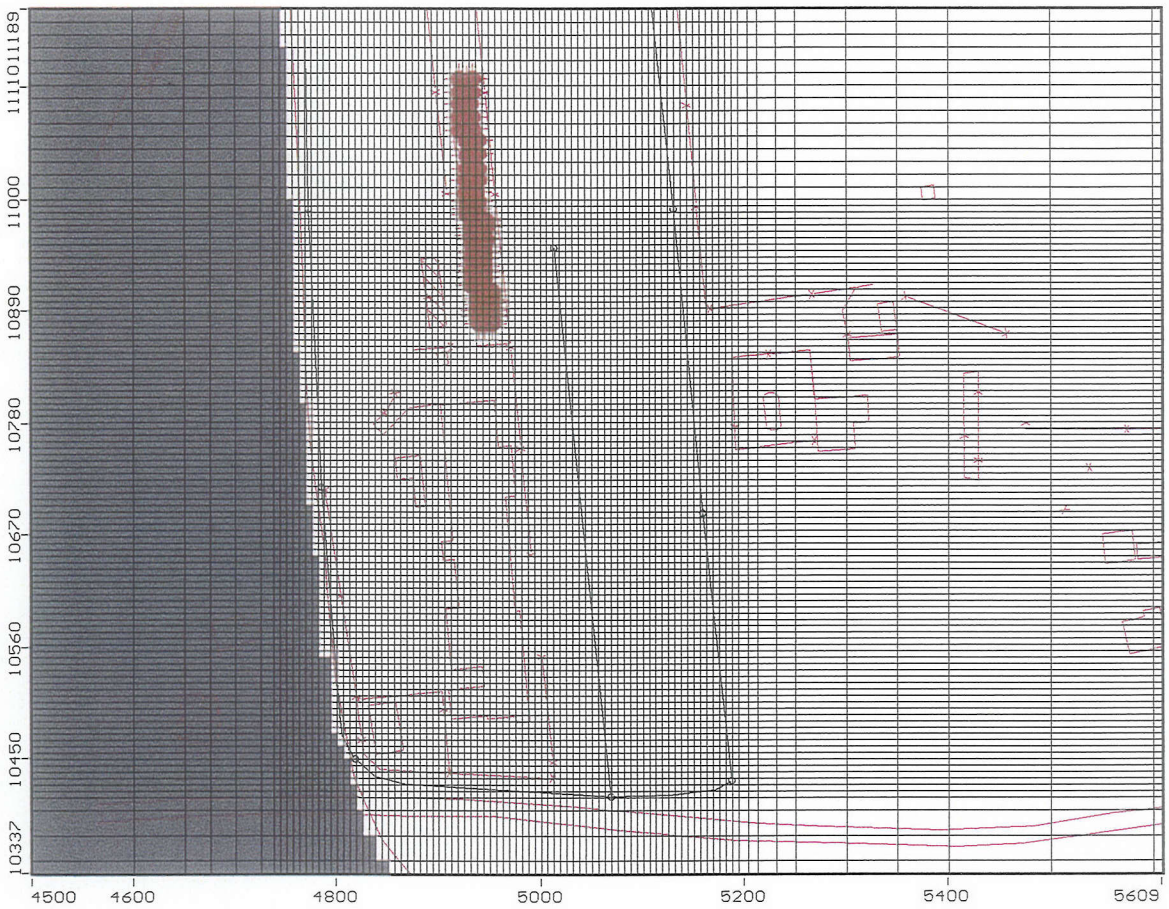


Dames & Moore/URS Project: Kentec Remedial Design Description: Model Base (ft/msl) Modeller: R. MacWilliams 6 Jul 01	Visual MODFLOW v.2.8.2, (C) 1995–1999 Waterloo Hydrogeologic, Inc. NC: 89 NR: 131 NL: 1 Current Layer: 1



Dames & Moore/URS
Project: Kentec Remedial Design
Description: Hydraulic Conductivity
Modeller: R. MacWilliams
6 Jul 01

Visual MODFLOW v.2.8.2, (C) 1995–1999
Waterloo Hydrogeologic, Inc.
NC: 89 NR: 131 NL: 1
Current Layer: 1



Dames & Moore/URS
Project: Kentec Remedial Design
Description: Infiltration Gallery
Modeller: R. MacWilliams
6 Jul 01

Visual MODFLOW v.2.8.2, (C) 1995–1999
Waterloo Hydrogeologic, Inc.
NC: 89 NR: 131 NL: 1
Current Layer: 1

Dames & Moore/URS
Project: Kentec Remedial Design
Description: Results – GW Surface
Modeller: R. MacWilliams
6 Jul 01

Visual MODFLOW v.2.8.2, (C) 1995–1999
Waterloo Hydrogeologic, Inc.
NC: 89 NR: 131 NL: 1
Current Layer: 1

Dames & Moore/URS
Project: Kentec Remedial Design
Description: Initial Particle Input
Modeller: R. MacWilliams
6 Jul 01

Visual MODFLOW v.2.8.2, (C) 1995–1999
Waterloo Hydrogeologic, Inc.
NC: 89 NR: 131 NL: 1
Current Layer: 1

Dames & Moore/URS
Project: Kentec Remedial Design
Description: Results – Particle Trace
Modeller: R. MacWilliams
6 Jul 01

Visual MODFLOW v.2.8.2, (C) 1995–1999
Waterloo Hydrogeologic, Inc.
NC: 89 NR: 131 NL: 1
Current Layer: 1

1,4-Dioxane Concentration (ug/l)

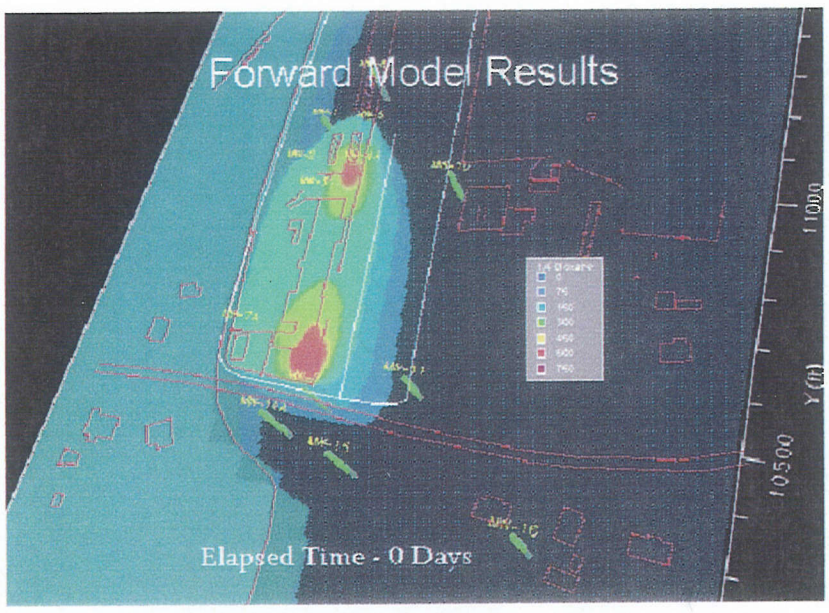
0 75 150 300 500

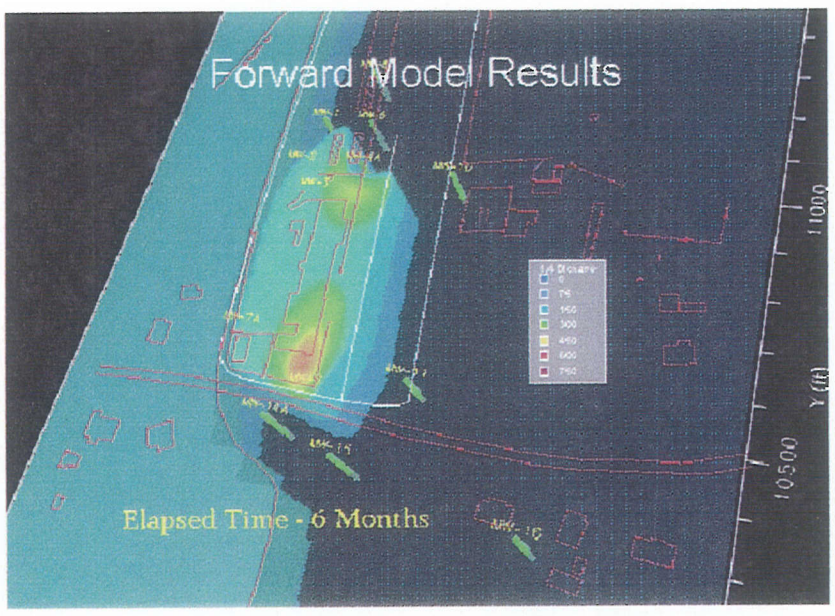
Scale (feet)

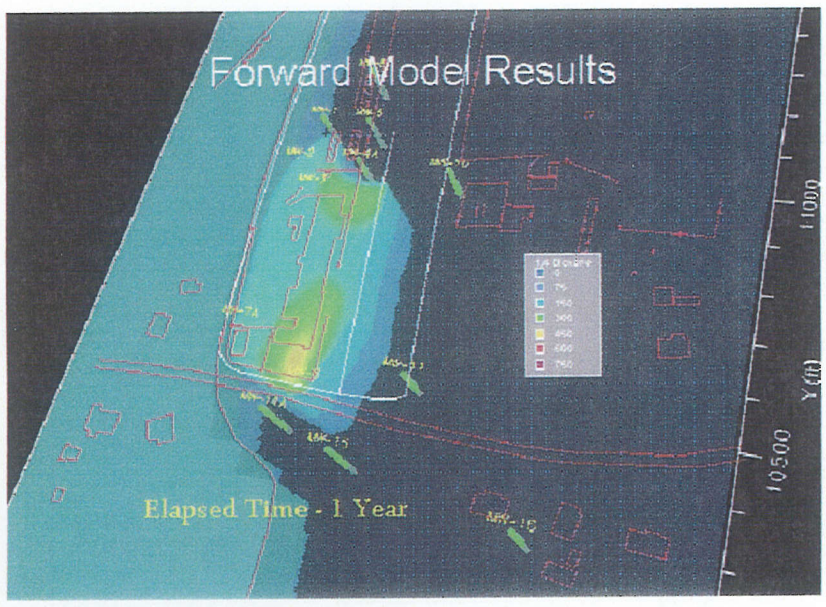
0 150 300 450 600

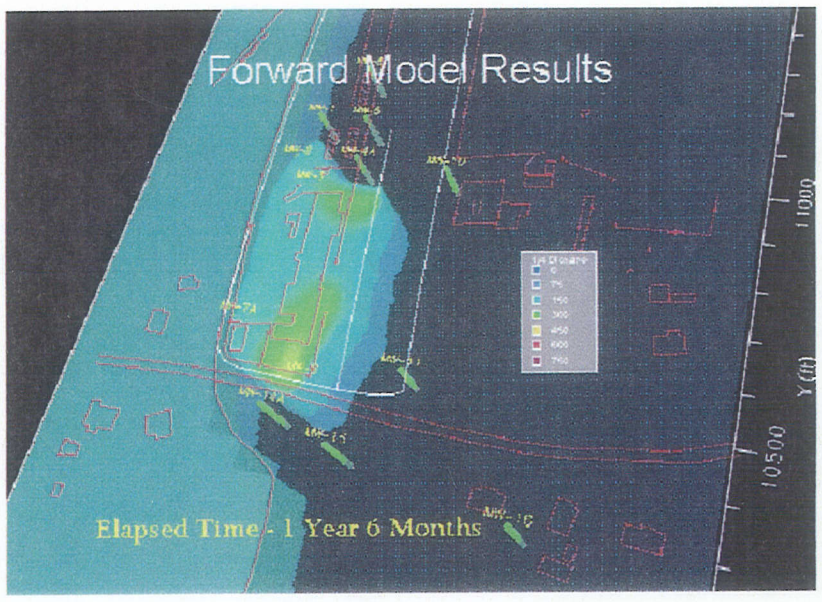
TITLE:

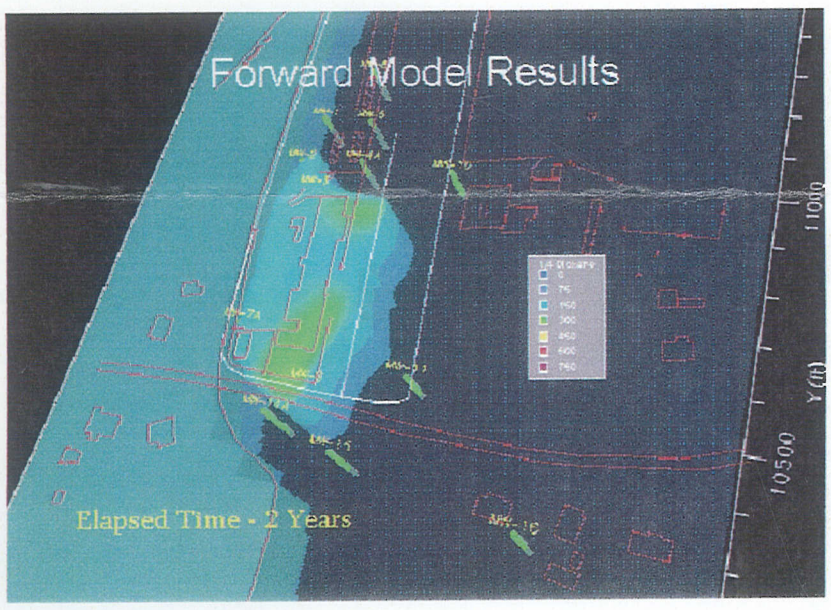
Groundwater 1,4-Dioxane
Isoconcentration Contour Map (ug/l)
April 10, 2001
DuPont Kentec Facility

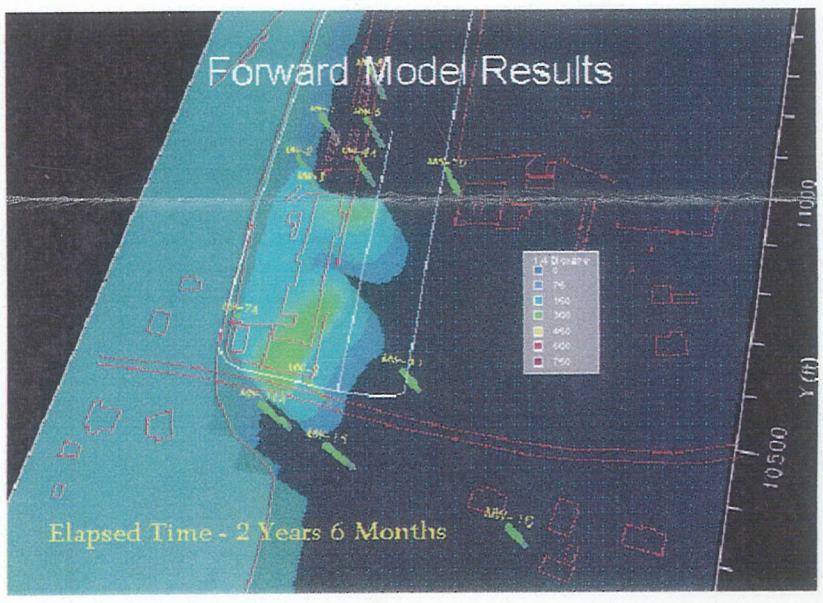


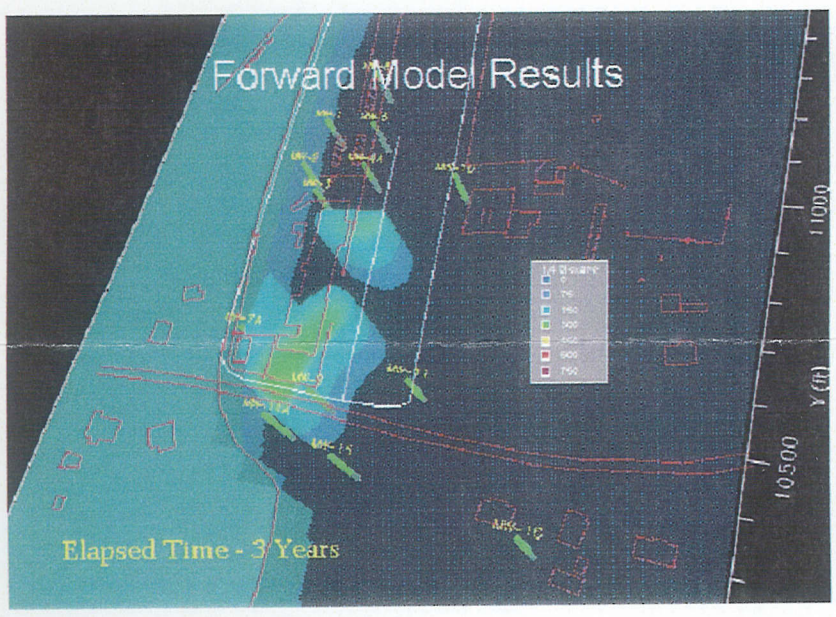


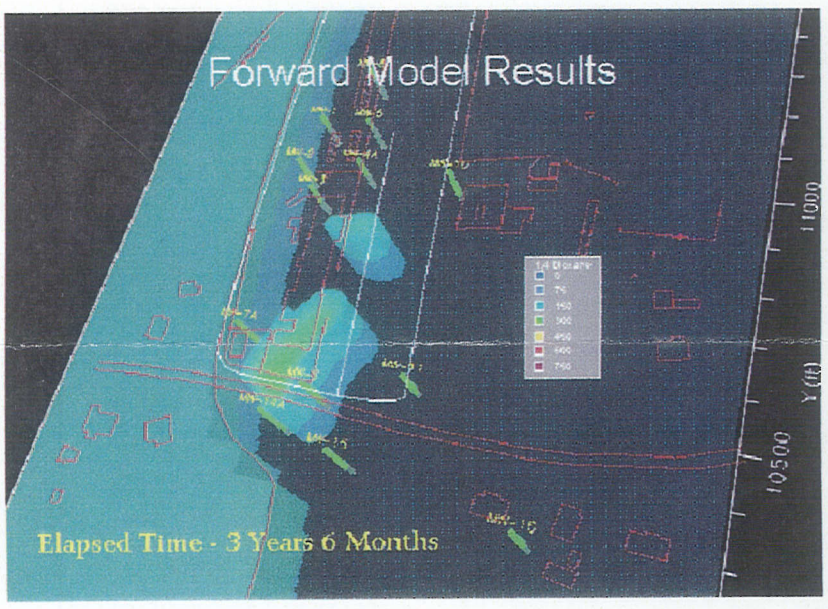






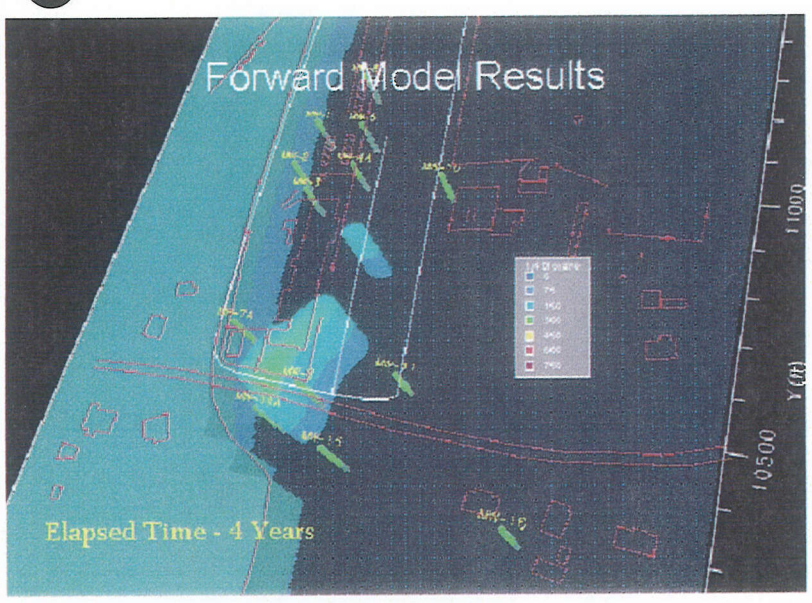


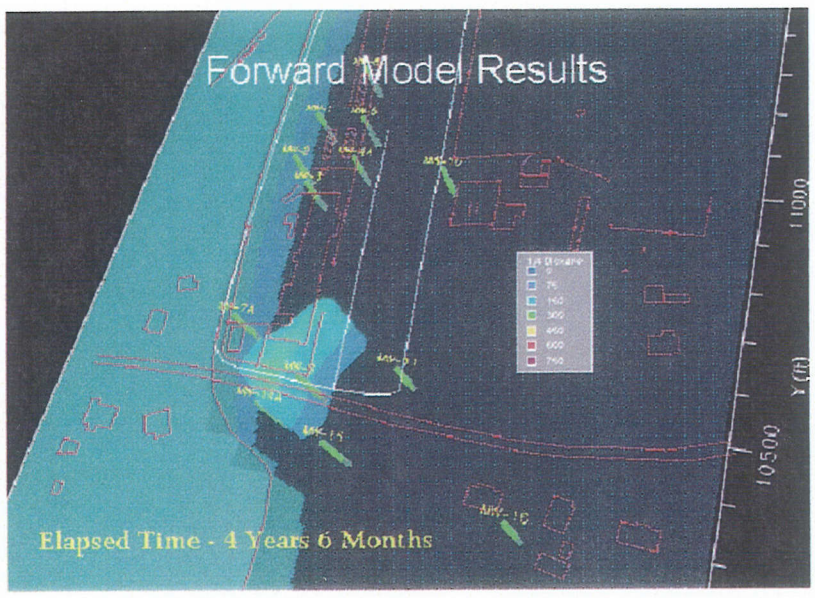


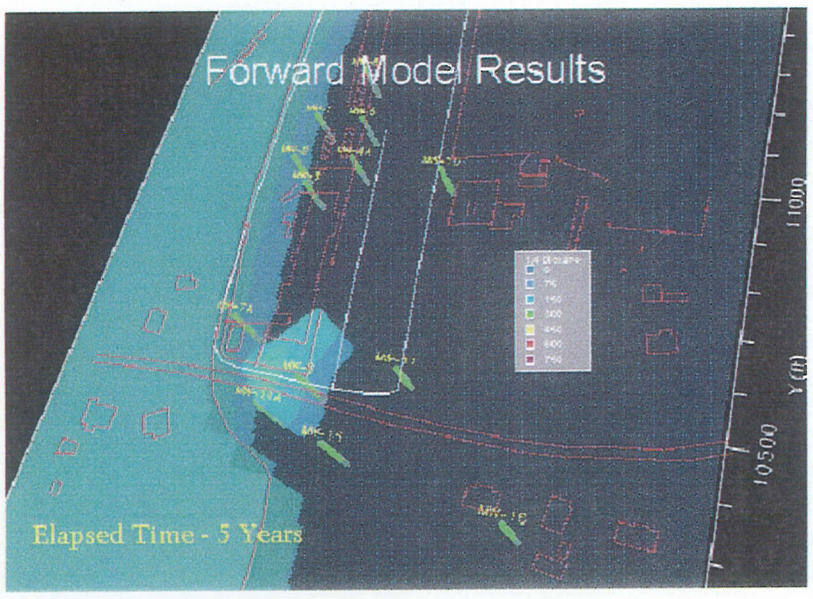


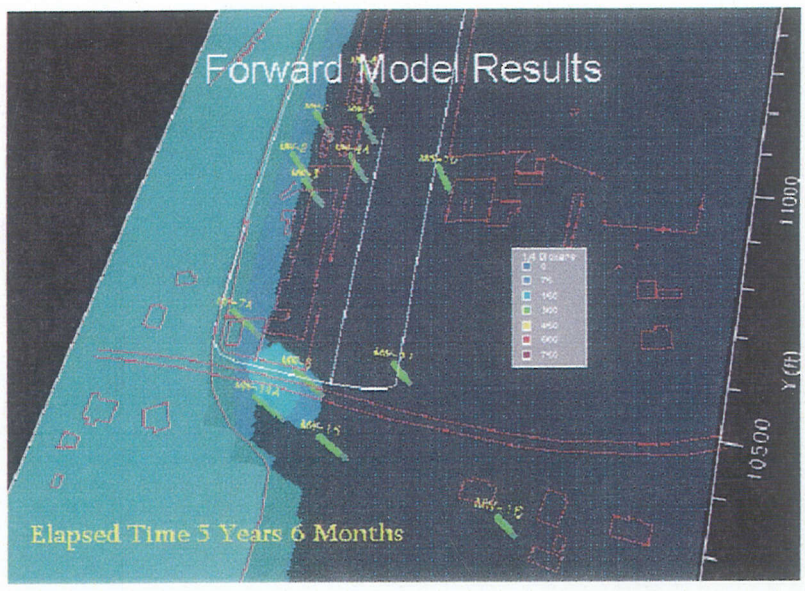
TITLE:

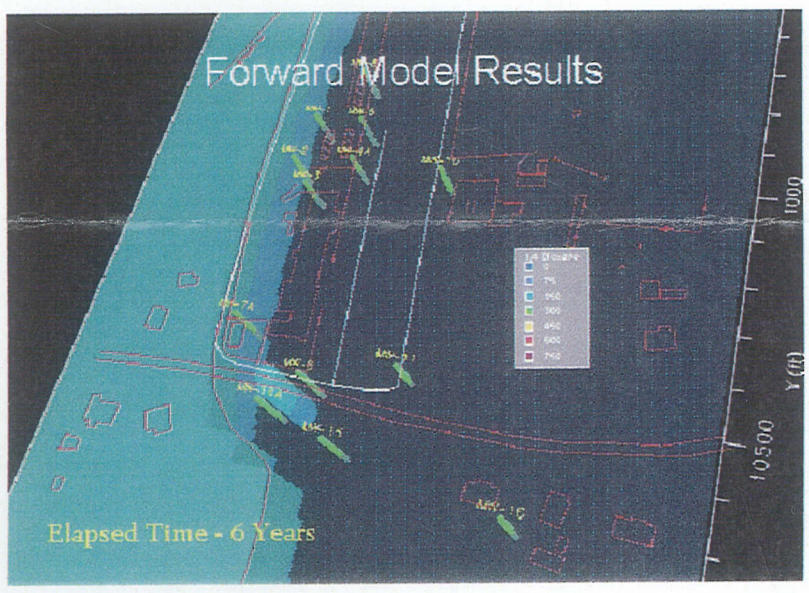
Predictive Groundwater Modeling Results
1,4-Dioxane Migration and Attenuation
DuPont Kentec Facility

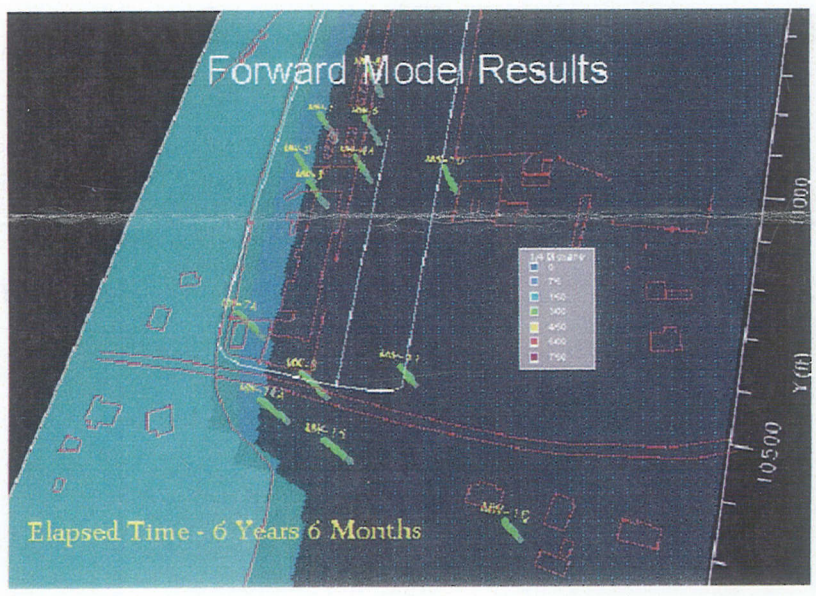












TITLE:

Predictive Groundwater Modeling Results
1,4-Dioxane Migration and Attenuation
DuPont Kentec Facility

Section j

Proposal for Groundwater Monitoring

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-01	29	31.22	3.88	Nov-89	25.12
MW-01	29	31.22	3.84	Dec-89	25.16
MW-01	29	31.22	2.03	Feb-90	26.97
MW-01	29	31.22	3.58	Aug-90	25.42
MW-01	29	31.22	3.67	Nov-90	25.33
MW-01	29	31.22	1.83	Feb-93	27.17
MW-01	29	31.22	5.12	Oct-93	23.88
MW-01	29	31.22	3.88	Jan-94	25.12
MW-01	29	31.22	3.03	Apr-94	25.97
MW-01	29	31.22	5.08	Jul-94	23.92
MW-01	29	31.22	5.05	Oct-94	23.95
MW-01	29	31.22	3.66	Jan-95	25.34
MW-01	29	31.22	3.33	Apr-95	25.67
MW-01	29	31.22	3.3	Jul-95	25.7
MW-01	29	31.22	5.18	Oct-95	23.82
MW-01	29	31.22	5.18	Jan-96	23.82
MW-01	29	31.22	5.18	Apr-96	23.82
MW-01	29	31.22	5.18	Jul-96	23.82
MW-01	29	31.22	5.18	Oct-96	23.82
MW-01	29	31.22	5.18	Jan-97	23.82
MW-01	29	31.22	5.18	Apr-97	23.82
MW-01	29	31.22	4.81	Jul-97	24.19
MW-01	29	31.22	5.18	Oct-97	23.82
MW-01	29	31.22	5.18	Jan-98	23.82
MW-01	29	31.22	NM	Apr-98	NM
MW-01	29	31.22	NM	Jul-98	NM
MW-01	29	31.22	4.04	Oct-98	24.96
MW-01	29	31.22	3.52	Jan-99	25.48
MW-01	29	31.22	3.23	Apr-99	25.77
MW-01	29	31.22	3.48	Jul-99	25.52
MW-01	29	31.22	1.03	Oct-99	27.97
MW-01	29	31.22	2.28	Jan-00	26.72
MW-01	29	31.22	2.48	Apr-00	26.52
MW-02	30	32.23	4.83	Nov-89	25.17
MW-02	30	32.23	4.86	Dec-89	25.14
MW-02	30	32.23	3.1	Feb-90	26.9
MW-02	30	32.23	NM	Aug-90	NM
MW-02	30	32.23	4.59	Nov-90	25.41
MW-03	29.5	29.62	4.2	Nov-89	25.3
MW-03	29.5	29.62	4.19	Dec-89	25.31
MW-03	29.5	29.62	2.6	Feb-90	26.9
MW-03	29.5	29.62	3.63	Aug-90	25.87
MW-03	29.5	29.62	NM	Nov-90	NM
MW-03	29.5	29.62	2.38	Feb-93	27.12
MW-03	29.5	29.62	5.43	Oct-93	24.07
MW-03	29.5	29.62	6.71	Jan-94	22.79
MW-03	29.5	29.62	5.23	Apr-94	24.27
MW-03	29.5	29.62	6.33	Jul-94	23.17
MW-03	29.5	29.62	5.33	Oct-94	24.17
MW-03	29.5	29.62	4.46	Jan-95	25.04
MW-03	29.5	29.62	3.73	Apr-95	25.77
MW-03	29.5	29.62	3.38	Jul-95	26.12
MW-03	29.5	29.62	5.64	Oct-95	23.86
MW-03	29.5	29.62	4.14	Jan-96	25.36
MW-03	29.5	29.62	3.28	Apr-96	26.22
MW-03	29.5	29.62	2.75	Jul-96	26.75
MW-03	29.5	29.62	3.04	Oct-96	26.46

All Elevations are in Feet Above Mean Sea Level.
NM = Not Measured.

j. Proposal For Groundwater Monitoring (e.g. schedule, analytical methods, etc.)

Monitoring Wells

Since the Kentec Groundwater Remediation system was installed in 1991 there has been continuous quarterly analysis of wells, until 2000 when it was determined that trends had indicated annual monitoring was sufficient. The following wells are monitored on an annual basis for DCE, DCA, and 1,4 Dioxane, and can be located on the map in section e of this document.

MW-1
MW-3
MW-4A
MW-6
MW-7A
MW-8
MW-10A
MW-11A
MW-14A
MW-15

These wells are monitored under the direction of the Kentec Corrective Action Plan. Analytical method is currently EPA Method 8015 for 1,4 Dioxane and EPA method 601 for DCE and DCA.

Effluent Sampling

Located in this document under heading m. is data relating the history of analytical results of effluent sampling. It is our belief that variation in treatment efficacy is very small, and there is 99.9% confidence that the average effluent concentration is below 2L required levels. Therefore, we intend to monitor the effluent from our treatment system annually as part of our overall sampling procedure.

Water Levels

The location of piezometers at the site can be found on the map in section e. of this document. DuPont intends to install an additional piezometer at the center of the re-injection system to monitor the mound being created by the recharge. Monitoring of these points will occur on the following schedule:

Monthly for 3 months after installation and startup of re-injection
Quarterly thereafter for 2 years
Annually thereafter

Subject: Requested Changes to Sampling Plan
Date: Thu, 16 Aug 2001 11:24:44 -0400
From: "Andrew F Alcazar" <Andrew.F.Alcazar@usa.dupont.com>
To: "David L. May" <David.May@ncmail.net>

Dear Mr. May,

As per our telephone discussion on Thursday August 16, 2001 I am sending this email to discuss the Application for a Non-Discharge Permit that has been submitted for the DuPont Kentec Facility. This note is specifically regarding scheduling of routine groundwater sampling.

You have indicated that you feel annual sampling of the Kentec System is insufficient to determine the reaction of the groundwater to our proposed Infiltration Gallery. In our aforementioned discussion DuPont has agreed to offer a new schedule based on your recommendations.

The new schedule will consist of:

Semi-annual sampling of the monitoring wells designated by the revised Corrective Action Plan (modifications pending approval by David May, Groundwater Section)
Semi-annual sampling will occur beginning after the installation of the Infiltration gallery and continue for two years
Semi-annual monitoring of the system will include samples of the system effluent
NCDENR will review the data provided by the two years of semi-annual sampling and make a determination whether or not Kentec may return to an annual sampling regiment, if the data shows capture and system efficacy has not been reduced by the addition of the infiltration gallery

I appreciate your attitude of cooperation in developing this application. I look forward to working together with NCDENR in completing this application process, and our future work at the Kentec facility.

Sincerely,

Andrew F. Alcazar

Andrew F. Alcazar
Andrew F. Alcazar
Environmental Engineer
DuPont Corporate Remediation Group's Southeastern Gulf Business Team
Charlotte, NC
Tel: 704-362-6634 / DUCOM 362-6634 - Fax: 704-362-6636
Andrew.F.Alcazar@usa.dupont.com
Have a SAFE day!

Section k

Mechanical Integrity

k. Describe the method for determining mechanical integrity of injection well over a five-year period.

The system will have a pressure gage installed on the carbon unit effluent line that feeds into the infiltration system. This gage will be monitored on a weekly basis to identify any pressure change resulting from blockage in the infiltration gallery. In addition the area around the infiltration gallery will be visually monitored for ponding during this weekly check.

Section 1

Groundwater Analysis

DuPont Kentec Monitoring Well Analytical Data

Sample	Date	Analyte	Result Post	Result	UNITS
MW-1	05/1987	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-1	06/1988	1,1-DICHLOROETHANE	0.005	NA	mg/l
MW-1	01/1990	1,1-DICHLOROETHANE	0.004J	NA	mg/l
MW-1	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-1	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-1	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-1	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-1	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-1	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10A	01/1990	1,1-DICHLOROETHANE	0.29	NA	mg/l
MW-10A	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10A	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10A	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10A	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10A	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10A	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10B	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10B	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10B	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10B	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10B	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-10B	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11	01/1990	1,1-DICHLOROETHANE	0.23	NA	mg/l
MW-11	07/1990	1,1-DICHLOROETHANE	0.16	NA	mg/l
MW-11A	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11A	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11A	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11A	1/12/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11A	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11A	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11B	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11B	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11B	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11B	1/12/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11B	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-11B	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-12	01/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-12	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-12	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-12	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-12	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-12	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-12	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-13	01/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-14A	01/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-14A	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14A	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l

Sample	Date	Analyte	Result Post	Result	UNITS
MW-14A	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14A	1/12/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14A	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14A	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14B	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14B	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14B	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14B	1/12/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14B	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-14B	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-15	01/1990	1,1-DICHLOROETHANE	0.013	NA	mg/l
MW-15	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-15	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-15	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-15	1/12/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-15	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-15	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-16	01/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-16	07/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-16	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-16	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-16	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-16	1/12/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-16	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-16	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-18	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-18	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-18	1/12/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-18	4/14/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-18	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-3	05/1987	1,1-DICHLOROETHANE	0.0016	NA	mg/l
MW-3	06/1988	1,1-DICHLOROETHANE	0.28	NA	mg/l
MW-3	01/1990	1,1-DICHLOROETHANE	0.073	NA	mg/l
MW-3	4/13/99	1,1-DICHLOROETHANE	0.0056	0.00560	mg/l
MW-3	7/14/99	1,1-DICHLOROETHANE	0.041	0.04100	mg/l
MW-3	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-3	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-3	4/14/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-3	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4A	05/1987	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-4A	06/1988	1,1-DICHLOROETHANE	0.9	NA	mg/l
MW-4A	01/1990	1,1-DICHLOROETHANE	0.8	NA	mg/l
MW-4A	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4A	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4A	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4A	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4A	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4A	4/10/01	1,1-DICHLOROETHANE	<0.01	0.00500	mg/l
MW-4B	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4B	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l

Sample	Date	Analyte	Result Post	Result	UNITS
MW-4B	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4B	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4B	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-4B	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-5	05/1987	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-5	06/1988	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-5	01/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-6	05/1987	1,1-DICHLOROETHANE	0.011	NA	mg/l
MW-6	06/1988	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-6	01/1990	1,1-DICHLOROETHANE	0.016	NA	mg/l
MW-6	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-6	7/14/99	1,1-DICHLOROETHANE	<0.02	0.01000	mg/l
MW-6	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-6	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-6	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-6	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7A	06/1988	1,1-DICHLOROETHANE	0.009	NA	mg/l
MW-7A	01/1990	1,1-DICHLOROETHANE	0.01	NA	mg/l
MW-7A	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7A	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7A	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7A	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7A	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7A	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7A	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7B	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7B	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7B	10/27/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7B	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7B	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-7B	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-8	06/1988	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-8	01/1990	1,1-DICHLOROETHANE	0.003J	NA	mg/l
MW-8	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-8	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-8	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-8	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-8	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-8	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-9	01/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-9	07/1990	1,1-DICHLOROETHANE	<0.005	NA	mg/l
MW-9	4/13/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-9	7/14/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-9	10/26/99	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-9	1/11/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-9	4/13/00	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-9	4/10/01	1,1-DICHLOROETHANE	<0.005	0.00250	mg/l
MW-1	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-1	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-1	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l

Sample	Date	Analyte	Result Post	Result	UNITS
MW-1	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-1	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-1	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10A	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10A	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10A	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10A	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10A	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10A	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10B	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10B	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10B	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10B	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10B	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-10B	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11A	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11A	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11A	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11A	1/12/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11A	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11A	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11B	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11B	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11B	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11B	1/12/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11B	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-11B	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-12	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-12	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-12	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-12	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-12	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-12	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14A	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14A	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14A	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14A	1/12/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14A	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14A	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14B	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14B	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14B	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14B	1/12/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14B	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-14B	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-15	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-15	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-15	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-15	1/12/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-15	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l

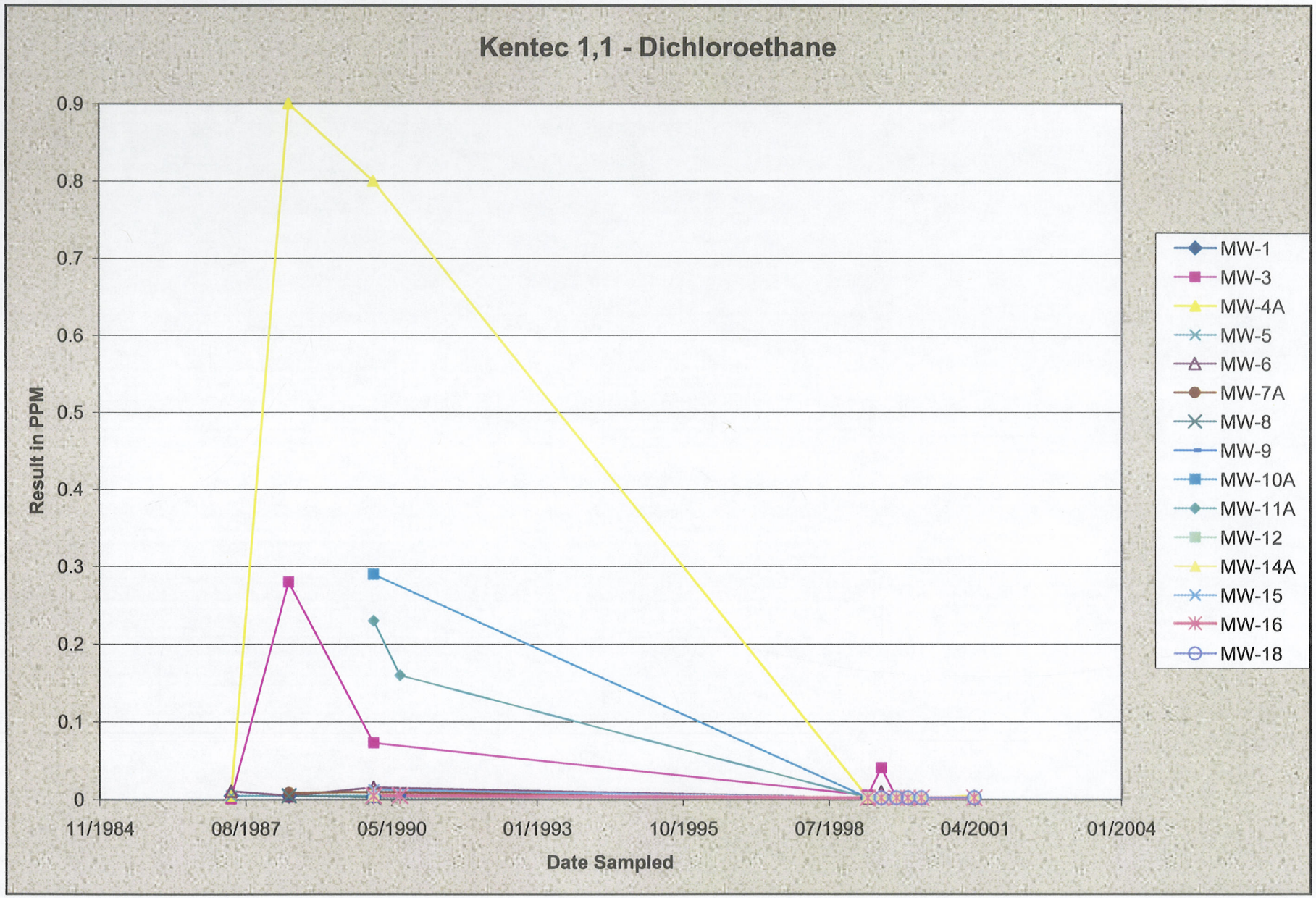
Sample	Date	Analyte	Result Post	Result	UNITS
MW-15	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-16	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-16	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-16	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-16	1/12/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-16	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-16	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-18	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-18	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-18	1/12/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-18	4/14/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-18	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-3	4/13/99	1,1-DICHLOROETHENE	0.014	0.01400	mg/l
MW-3	7/14/99	1,1-DICHLOROETHENE	0.011	0.01100	mg/l
MW-3	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-3	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-3	4/14/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-3	4/10/01	1,1-DICHLOROETHENE	0.0093	0.00930	mg/l
MW-4A	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4A	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4A	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4A	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4A	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4A	4/10/01	1,1-DICHLOROETHENE	<0.01	0.00500	mg/l
MW-4B	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4B	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4B	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4B	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4B	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-4B	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-6	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-6	7/14/99	1,1-DICHLOROETHENE	<0.02	0.01000	mg/l
MW-6	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-6	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-6	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-6	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7A	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7A	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7A	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7A	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7A	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7A	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7A	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7B	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7B	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7B	10/27/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7B	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7B	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-7B	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-8	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l

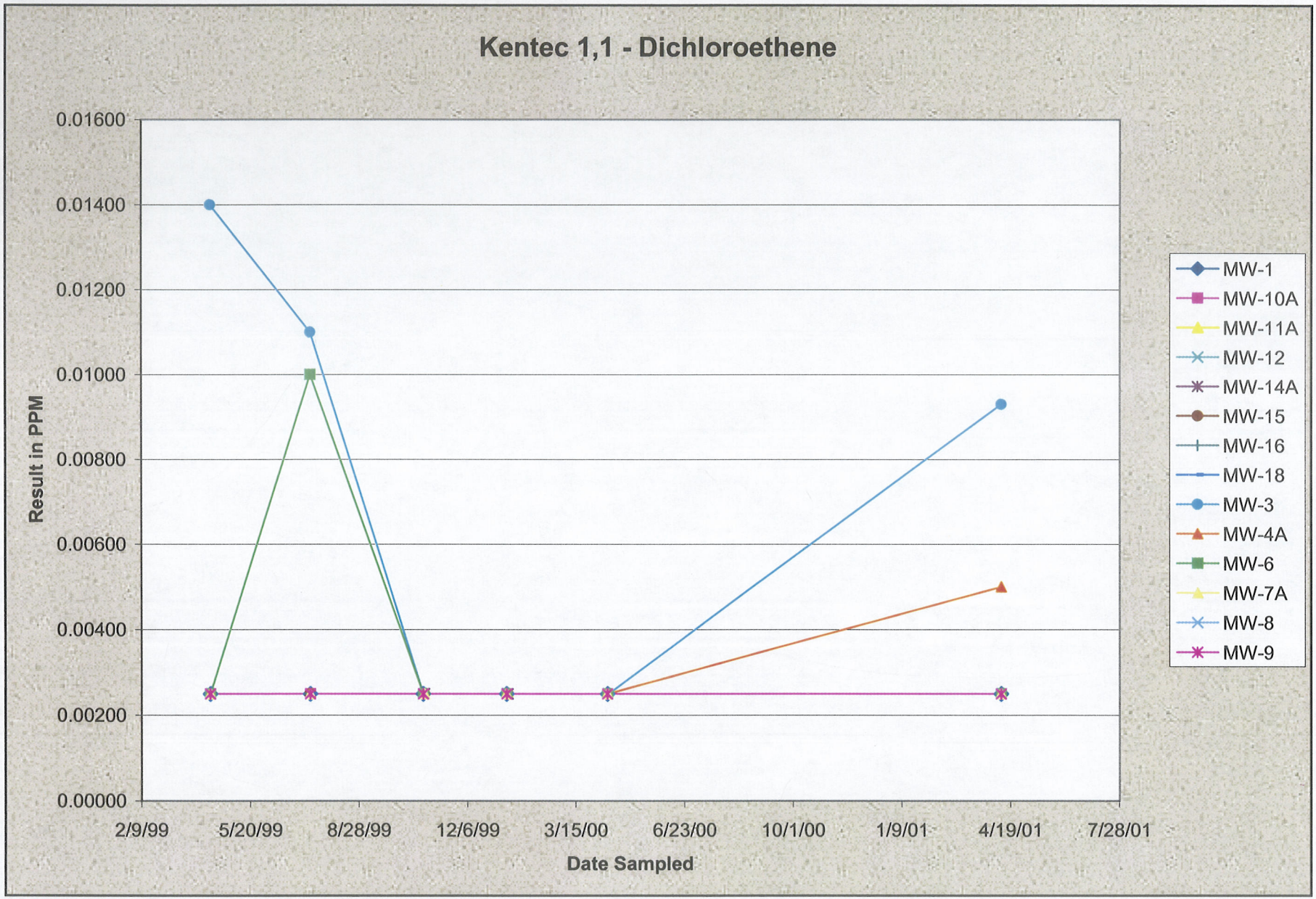
Sample	Date	Analyte	Result Post	Result	UNITS
MW-8	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-8	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-8	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-8	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-8	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-9	4/13/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-9	7/14/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-9	10/26/99	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-9	1/11/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-9	4/13/00	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-9	4/10/01	1,1-DICHLOROETHENE	<0.005	0.00250	mg/l
MW-1	05/1987	1,4-DIOXANE	1.7	NA	mg/l
MW-1	06/1988	1,4-DIOXANE	2	NA	mg/l
MW-1	01/1990	1,4-DIOXANE	1.2	NA	mg/l
MW-1	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-1	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-1	10/26/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-1	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-1	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-1	4/10/01	1,4-DIOXANE	0.036	0.03600	mg/l
MW-10A	01/1990	1,4-DIOXANE	0.43	NA	mg/l
MW-10A	07/1990	1,4-DIOXANE	0.34	NA	mg/l
MW-10A	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10A	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10A	10/26/99	1,4-DIOXANE	0.78	0.78000	mg/l
MW-10A	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10A	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10A	4/10/01	1,4-DIOXANE	0.017 J	0.01700	mg/l
MW-10B	08/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-10B	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10B	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10B	10/26/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10B	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10B	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-10B	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11	01/1990	1,4-DIOXANE	0.55	NA	mg/l
MW-11	07/1990	1,4-DIOXANE	0.68	NA	mg/l
MW-11A	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11A	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11A	10/27/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11A	1/12/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11A	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11A	4/10/01	1,4-DIOXANE	0.0037 J	0.00370	mg/l
MW-11B	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11B	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11B	10/27/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11B	1/12/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11B	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-11B	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-12	01/1990	1,4-DIOXANE	<0.05	NA	mg/l

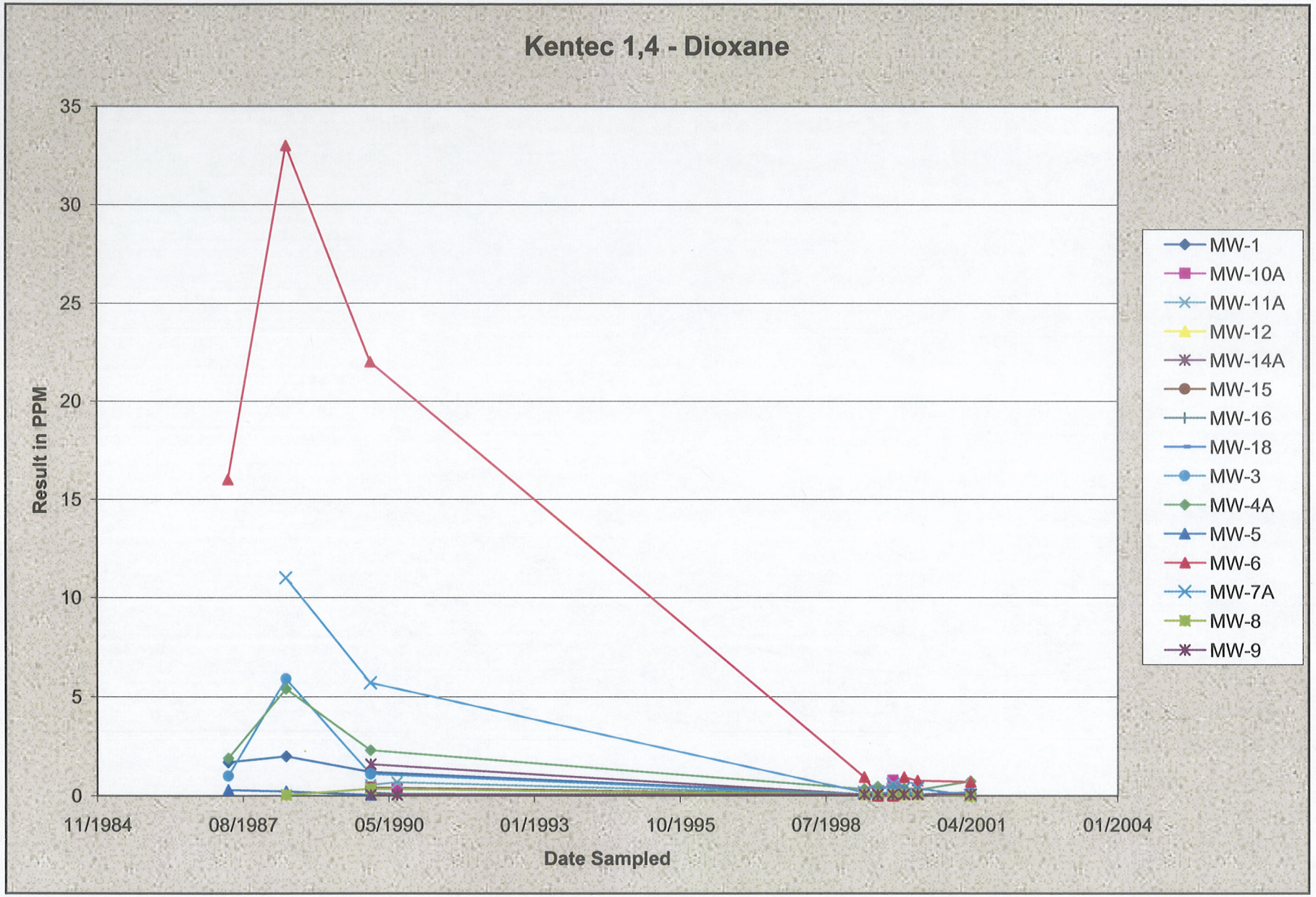
Sample	Date	Analyte	Result Post	Result	UNITS
MW-12	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-12	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-12	10/26/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-12	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-12	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-12	4/10/01	1,4-DIOXANE	0.0025 J	0.00250	mg/l
MW-13	01/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-14A	01/1990	1,4-DIOXANE	1.6	NA	mg/l
MW-14A	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14A	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14A	10/27/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14A	1/12/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14A	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14A	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14A	4/10/01	1,4-DIOXANE	ND (0.0016)	0.00080	mg/l
MW-14B	01/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-14B	07/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-14B	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14B	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14B	10/27/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14B	1/12/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14B	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-14B	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-15	01/1990	1,4-DIOXANE	0.41	NA	mg/l
MW-15	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-15	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-15	10/27/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-15	1/12/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-15	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-15	4/10/01	1,4-DIOXANE	0.015 J	0.01500	mg/l
MW-16	01/1990	1,4-DIOXANE	0.16	NA	mg/l
MW-16	07/1990	1,4-DIOXANE	0.1	NA	mg/l
MW-16	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-16	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-16	10/27/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-16	1/12/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-16	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-16	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-16	4/10/01	1,4-DIOXANE	ND (0.0016)	0.00080	mg/l
MW-18	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-18	10/26/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-18	1/12/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-18	4/14/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-18	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-3	05/1987	1,4-DIOXANE	1	NA	mg/l
MW-3	06/1988	1,4-DIOXANE	5.9	NA	mg/l
MW-3	01/1990	1,4-DIOXANE	1.1	NA	mg/l
MW-3	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-3	7/14/99	1,4-DIOXANE	<0.3	0.15000	mg/l
MW-3	10/26/99	1,4-DIOXANE	0.16	0.16000	mg/l

Sample	Date	Analyte	Result Post	Result	UNITS
MW-3	1/11/00	1,4-DIOXANE	0.29	0.29000	mg/l
MW-3	4/14/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-3	4/10/01	1,4-DIOXANE	0.19	0.19000	mg/l
MW-4A	05/1987	1,4-DIOXANE	1.9	NA	mg/l
MW-4A	06/1988	1,4-DIOXANE	5.4	NA	mg/l
MW-4A	01/1990	1,4-DIOXANE	2.3	NA	mg/l
MW-4A	4/13/99	1,4-DIOXANE	0.34	0.34000	mg/l
MW-4A	7/14/99	1,4-DIOXANE	0.46	0.46000	mg/l
MW-4A	10/26/99	1,4-DIOXANE	0.42	0.42000	mg/l
MW-4A	1/11/00	1,4-DIOXANE	0.37	0.37000	mg/l
MW-4A	4/13/00	1,4-DIOXANE	0.29	0.29000	mg/l
MW-4A	4/10/01	1,4-DIOXANE	0.73	0.73000	mg/l
MW-4B	01/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-4B	07/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-4B	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-4B	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-4B	10/26/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-4B	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-4B	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-4B	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-5	05/1987	1,4-DIOXANE	0.3	NA	mg/l
MW-5	06/1988	1,4-DIOXANE	0.23	NA	mg/l
MW-5	01/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-6	05/1987	1,4-DIOXANE	16	NA	mg/l
MW-6	06/1988	1,4-DIOXANE	33	NA	mg/l
MW-6	01/1990	1,4-DIOXANE	22	NA	mg/l
MW-6	4/13/99	1,4-DIOXANE	0.95	0.95000	mg/l
MW-6	7/14/99	1,4-DIOXANE	1.2	1.20000	mg/l
MW-6	10/26/99	1,4-DIOXANE	1.2 D	1.20000	mg/l
MW-6	1/11/00	1,4-DIOXANE	0.94	0.94000	mg/l
MW-6	4/13/00	1,4-DIOXANE	0.77	0.77000	mg/l
MW-6	4/10/01	1,4-DIOXANE	0.71 D	0.71000	mg/l
MW-7A	06/1988	1,4-DIOXANE	11	NA	mg/l
MW-7A	01/1990	1,4-DIOXANE	5.7	NA	mg/l
MW-7A	4/13/99	1,4-DIOXANE	0.17	0.17000	mg/l
MW-7A	7/14/99	1,4-DIOXANE	0.21	0.21000	mg/l
MW-7A	10/27/99	1,4-DIOXANE	0.59	0.59000	mg/l
MW-7A	10/27/99	1,4-DIOXANE	0.32	0.32000	mg/l
MW-7A	1/11/00	1,4-DIOXANE	0.38	0.38000	mg/l
MW-7A	4/13/00	1,4-DIOXANE	0.37	0.37000	mg/l
MW-7A	4/10/01	1,4-DIOXANE	0.03	0.03000	mg/l
MW-7B	01/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-7B	07/1990	1,4-DIOXANE	<0.05	NA	mg/l
MW-7B	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-7B	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-7B	10/27/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-7B	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-7B	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-7B	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-8	06/1988	1,4-DIOXANE	<0.05	NA	mg/l
MW-8	01/1990	1,4-DIOXANE	0.36	NA	mg/l

Sample	Date	Analyte	Result Post	Result	UNITS
MW-8	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-8	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-8	10/26/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-8	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-8	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-8	4/10/01	1,4-DIOXANE	0.016 J	0.01600	mg/l
MW-9	01/1990	1,4-DIOXANE	0.049J	NA	mg/l
MW-9	07/1990	1,4-DIOXANE	0.052	NA	mg/l
MW-9	4/13/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-9	7/14/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-9	10/26/99	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-9	1/11/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-9	4/13/00	1,4-DIOXANE	<0.15	0.07500	mg/l
MW-9	4/10/01	1,4-DIOXANE	<0.15	0.07500	mg/l


Kentec 1,1 - Dichloroethane
Result in PPM
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
11/1984
08/1987
05/1990
01/1993
10/1995
07/1998
04/2001
01/2004
Date Sampled
MW-1
MW-3
MW-4A
MW-5
MW-6
MW-7A
MW-8
MW-9
MW-10A
MW-11A
MW-12
MW-14A
MW-15
MW-16
MW-18


Kentec 1,1 - Dichloroethene
Result in PPM
0.01600
0.01400
0.01200
0.01000
0.00800
0.00600
0.00400
0.00200
0.00000
2/9/99
5/20/99
8/28/99
12/6/99
3/15/00
6/23/00
10/1/00
1/9/01
4/19/01
7/28/01
Date Sampled
MW-1
MW-10A
MW-11A
MW-12
MW-14A
MW-15
MW-16
MW-18
MW-3
MW-4A
MW-6
MW-7A
MW-8
MW-9


Kentec 1,4 - Dioxane
Result in PPM
35
30
25
20
15
10
5
0
11/1984
08/1987
05/1990
01/1993
10/1995
07/1998
04/2001
01/2004
Date Sampled
MW-1
MW-10A
MW-11A
MW-12
MW-14A
MW-15
MW-16
MW-18
MW-3
MW-4A
MW-5
MW-6
MW-7A
MW-8
MW-9

Section m

Effluent Contamination

m. Describe contaminant concentration in the effluent given the proposed treatment. Include expected treatment efficiency. Provide calculations or documentation to show how proposed degree of treatment was derived.

The Kentec Groundwater Interceptor system has been operating for approximately ten years. Analysis of the effluent from the treatment system (after the carbon unit) was done weekly. The data since on the effluent concentration since spring of 1999 was used for the following table:

	Average	**%99.9 Confidence**
[DCA]	5	5
[DCE]	5.2	5.9 to 4.5
[Dioxane]	2.1	3.8 to .4

Table M-1: Effluent Concentration of Contaminants in PPB

Attached is the data used to develop this table. No data of the last two years was omitted to produce this table, samples found to be below detection limit were assumed [X]=[PQL].

A Treatability Study of chemical oxidation was completed for the writing of the Corrective Action Plan, and can be found in that document on page 3-2.

Effluent Contaminant Concentrations Over Time

Railcar and Carbon Unit Data

Effluent Sampling Location	Date	DCE	DCA	DX	Actual DX
Carbon Unit	10/1/99	<5	<5	<100	
Carbon Unit	10/4/99	<5	<5	<100	
Carbon Unit	10/13/99	<5	<5	<100	
Carbon Unit	10/15/99	<5	<5	<100	
Carbon Unit	10/18/99	<5	<5	<100	
Carbon Unit	10/22/99	<5	<5	<100	
Carbon Unit	10/25/99	<5	<5	<100	
Carbon Unit	10/29/99	<5	<5	<100	
Carbon Unit	11/1/99	<5	<5	<100	
Carbon Unit	11/5/99	<5	<5	<100	
Carbon Unit	11/8/99	<5	<5	<100	
Carbon Unit	11/12/99	<5	<5	<100	
Carbon Unit	11/15/99	<5	<5	<100	
Carbon Unit	11/19/99	<5	<5	<100	
Carbon Unit	11/22/99	<5	<5	<100	
Carbon Unit	11/29/99	<5	<5	<100	
Carbon Unit	12/3/99	<5	<5	<100	
Carbon Unit	12/6/99	<5	<5	<100	
Carbon Unit	12/10/99	<5	<5	<100	
Carbon Unit	12/13/99	<5	<5	<100	
Carbon Unit	12/15/99	<5	<5	<100	
Carbon Unit	12/20/99	<5	<5	<100	
Carbon Unit	12/27/99	<5	<5	<100	
Carbon Unit	12/29/99	<5	<5	<100	
Carbon Unit	1/3/00	<5	<5	<100	0.0
Carbon Unit	1/7/00	<5	<5	<100	0.0
Carbon Unit	1/10/00	<5	<5	<100	0.0
Carbon Unit	1/14/00	<5	<5	<100	0.0
Carbon Unit	1/17/00	<5	<5	<100	0.0
Carbon Unit	1/21/00	<5	<5	<100	0.0
Carbon Unit	1/24/00	<5	<5	<100	0.0
Carbon Unit	1/31/00	<5	<5	<100	0.0
Carbon Unit	2/4/00	<5	<5	<100	0.0
Carbon Unit	2/7/00	<5	<5	<100	4.7
Carbon Unit	2/11/00	<5	<5	<100	1.4
Carbon Unit	2/14/00	<5	<5	<100	0.0
Carbon Unit	2/18/00	<5	<5	<100	0.0
Carbon Unit	2/21/00	<5	<5	<100	0.0
Carbon Unit	2/25/00	<5	<5	<100	0.0
Carbon Unit	2/28/00	<5	<5	<100	0.0
Carbon Unit	3/6/00	<5	<5	<100	5.8
Carbon Unit	3/8/00	<5	<5	<100	1.1
Carbon Unit	3/13/00	<5	<5	<100	2.1
Carbon Unit	3/20/00	<5	<5	<100	0.0
Carbon Unit	3/24/00	<5	<5	<100	0.0

All concentrations shown in ppb.
DCE = 1,1 - Dichloroethene
DCA = 1,1 - Dichloroethane
DX = 1,4 - Dioxane

Effluent Contaminant Concentrations Over Time

Railcar and Carbon Unit Data

Effluent Sampling Location	Date	DCE	DCA	DX	Actual DX
Carbon Unit	3/27/00	<5	<5	<100	1.6
Carbon Unit	3/31/00	<5	<5	<100	0.0
Carbon Unit	4/3/00	<5	<5	<100	0.0
Carbon Unit	4/10/00	<5	<5	<100	0.0
Carbon Unit	4/14/00	<5	<5	<100	2.3
Carbon Unit	4/17/00	<5	<5	<100	0.0
Carbon Unit	4/25/00	<5	<5	<100	0.0
Carbon Unit	4/25/00.	<5	<5	<100	0.0
Carbon Unit	4/28/00	<5	<5	<100	4.0
Carbon Unit	5/1/00	<5	<5	<100	0.0
Carbon Unit	5/5/00	<5	<5	<100	0.0
Carbon Unit	5/10/00	<5	<5	<100	0.0
Carbon Unit	5/17/00	26.9	<5	<100	0.0
Carbon Unit	5/24/00	<5	<5	<100	1.7
Carbon Unit	5/30/00	<5	<5	<100	0.0
Carbon Unit	6/5/00	<5	<5	<100	0.0
Carbon Unit	6/14/00	<5	<5	<100	0.0
Carbon Unit	6/22/00	<5	<5	<100	0.0
Carbon Unit	6/27/00	<5	<5	<100	0.0
Carbon Unit	7/3/00	<5	<5	<100	0.0
Carbon Unit	7/10/00	<5	<5	<100	0.0
Carbon Unit	7/17/00	<5	<5	<100	0.0
Carbon Unit	7/24/00	<5	<5	<100	2.9
Carbon Unit	7/31/00	<5	<5	<100	0.0
Carbon Unit	8/7/00	<5	<5	<100	0.0
Carbon Unit	8/21/00	<5	<5	<100	0.0
Carbon Unit	8/28/00	<5	<5	<100	0.0
Carbon Unit	9/5/00	<5	<5	<100	0.0
Carbon Unit	9/11/00	<5	<5	<100	0.0
Carbon Unit	9/18/00	<5	<5	<100	13.6
Carbon Unit	9/25/00	<5	<5	<100	0.0
Carbon Unit	10/2/00	<5	<5	<100	0.0
Carbon Unit	10/9/00	<5	<5	<100	0.0
Carbon Unit	10/16/00	<5	<5	<100	0.0
Carbon Unit	10/23/00	<5	<5	<100	2.5
Carbon Unit	10/30/00	<5	<5	<100	4.1
Carbon Unit	11/6/00	<5	<5	<100	0.0
Carbon Unit	11/13/00	<5	<5	<100	5.0
Carbon Unit	11/20/00	<5	<5	<100	0.0
Carbon Unit	11/27/00	<5	<5	<100	5.2
Carbon Unit	12/4/00	<5	<5	<100	0.0
Carbon Unit	12/11/00	<5	<5	<100	0.0
Carbon Unit	12/18/00	<5	<5	<100	0.0
Carbon Unit	12/27/00	<5	<5	<100	0.0
Carbon Unit	1/2/01	<5	<5	<100	9.4

All concentrations shown in ppb.
DCE = 1,1 - Dichloroethene
DCA = 1,1 - Dichloroethane
DX = 1,4 - Dioxane

Effluent Contaminant Concentrations Over Time

Railcar and Carbon Unit Data

Effluent Sampling Location	Date	DCE	DCA	DX	Actual DX
Carbon Unit	1/8/01	<5	<5	<100	6.3
Carbon Unit	1/15/01	<5	<5	<100	0.0
Carbon Unit	1/22/01	<5	<5	<100	5.5
Carbon Unit	1/29/01	<5	<5	<100	4.7
Carbon Unit	2/5/01	<5	<5	<100	0.0
Carbon Unit	2/12/01	<5	<5	<100	0.0
Carbon Unit	2/15/01	<5	<5	<100	6.0
Carbon Unit	2/19/01	<5	<5	<100	0.0
Carbon Unit	2/26/01	<5	<5	<100	0.0
Carbon Unit	3/5/01	<5	<5	<100	0.0
Carbon Unit	3/6/01	<5	<5	<100	6.2
Carbon Unit	3/12/01	<5	<5	<100	8.9
Carbon Unit	3/19/01	<5	<5	<100	11.6
Carbon Unit	3/26/01	<5	<5	<100	0.0
Carbon Unit	4/2/01	<5	<5	<100	34.9
Carbon Unit	4/9/01	<5	<5	<100	9.7
Carbon Unit	4/17/01	<5	<5	<100	0.0
Carbon Unit	4/23/01	<5	<5	<100	8.7
Carbon Unit	4/30/01	<5	<5	<100	5.5

1,4 Dioxane

Average: **2.1**
Standard Deviation **4.7**
99.9% Confidence Interval **3.8 > [Dioxane] > 0.4**

DCE

Average: **5.2**
Standard Deviation **2.1**
99.9% Confidence Interval **5.9 > [DCE] > 4.5**

DCA

Average: **5.0**
Standard Deviation **0.0**
99.9% Confidence Interval **5.0 > [DCE] > 5.0**

Confidence intervals do not exceed 7 ppb on the average for each constituent. As an average over greater than 2 years the effluent is within 2L standards.

Assumptions:
The samples are characteristic of a normal distribution.
Concentration data below MDL (5 in all cases) are considered to be equal to the MDL or 5 ppb in all such cases.

All concentrations shown in ppb.
DCE = 1,1 - Dichloroethene
DCA = 1,1 - Dichloroethane
DX = 1,4 - Dioxane

Section n

Plume Diagrams

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-03	29.5	29.62	2.74	Jan-97	26.76
MW-03	29.5	29.62	3.73	Apr-97	25.77
MW-03	29.5	29.62	4.96	Jul-97	24.54
MW-03	29.5	29.62	5.58	Oct-97	23.92
MW-03	29.5	29.62	2.68	Jan-98	26.82
MW-03	29.5	29.62	NM	Apr-98	NM
MW-03	29.5	29.62	NM	Jul-98	NM
MW-03	29.5	29.62	4.28	Oct-98	25.22
MW-03	29.5	29.62	4.37	Jan-99	25.13
MW-03	29.5	29.62	4.68	Apr-99	24.82
MW-03	29.5	29.62	3.58	Jul-99	25.92
MW-03	29.5	29.62	1.01	Oct-99	28.49
MW-03	29.5	29.62	2.43	Jan-00	27.07
MW-03	29.5	29.62	2.38	Apr-00	27.12
MW-04A	30.6	33	5.19	Nov-89	25.41
MW-04A	30.6	33	5.25	Dec-89	25.35
MW-04A	30.6	33	3.52	Feb-90	27.08
MW-04A	30.6	33	4.86	Aug-90	25.74
MW-04A	30.6	33	5.1	Nov-90	25.5
MW-04A	30.6	33	4.23	Feb-91	26.37
MW-04A	30.6	33	3.48	Apr-91	27.12
MW-04A	30.6	33	3.55	Feb-93	27.05
MW-04A	30.6	33	6.94	Oct-93	23.66
MW-04A	30.6	33	5.58	Jan-94	25.02
MW-04A	30.6	33	4.43	Apr-94	26.17
MW-04A	30.6	33	7.51	Jul-94	23.09
MW-04A	30.6	33	6.5	Oct-94	24.1
MW-04A	30.6	33	5.44	Jan-95	25.16
MW-04A	30.6	33	4.72	Apr-95	25.88
MW-04A	30.6	33	4.55	Jul-95	26.05
MW-04A	30.6	33	6.78	Oct-95	23.82
MW-04A	30.6	33	5.18	Jan-96	25.42
MW-04A	30.6	33	4.27	Apr-96	26.33
MW-04A	30.6	33	3.71	Jul-96	26.89
MW-04A	30.6	33	4	Oct-96	26.6
MW-04A	30.6	33	3.77	Jan-97	26.83
MW-04A	30.6	33	4.66	Apr-97	25.94
MW-04A	30.6	33	6.4	Jul-97	24.2
MW-04A	30.6	33	6.74	Oct-97	23.86
MW-04A	30.6	33	3.62	Jan-98	26.98
MW-04A	30.6	33	NM	Apr-98	NM
MW-04A	30.6	33	NM	Jul-98	NM
MW-04A	30.6	33	5.39	Oct-98	25.21
MW-04A	30.6	33	5.49	Jan-99	25.11
MW-04A	30.6	33	5.2	Apr-99	25.40
MW-04A	30.6	33	5.47	Jul-99	25.13
MW-04A	30.6	33	2.75	Oct-99	27.85
MW-04A	30.6	33	2.75	Oct-99	27.85
MW-04A	30.6	33	4.52	Jan-00	26.08
MW-04A	30.6	33	8.33	Apr-00	22.27
MW-04B	30.4	33.23	9.67	Nov-89	20.73
MW-04B	30.4	33.23	9.85	Dec-89	20.55
MW-04B	30.4	33.23	8.26	Feb-90	22.14
MW-04B	30.4	33.23	10.48	Aug-90	19.92
MW-04B	30.4	33.23	10.14	Nov-90	20.26
MW-04B	30.4	33.23	8.65	Feb-91	21.75
MW-04B	30.4	33.23	7.75	Apr-91	22.65

All Elevations are in Feet Above Mean Sea Level.
NM = Not Measured.

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-04B	30.4	33.23	5.63	Feb-93	24.77
MW-04B	30.4	33.23	9.12	Oct-93	21.28
MW-04B	30.4	33.23	7.72	Jan-94	22.68
MW-04B	30.4	33.23	6.97	Apr-94	23.43
MW-04B	30.4	33.23	7.67	Jul-94	22.73
MW-04B	30.4	33.23	9.07	Oct-94	21.33
MW-04B	30.4	33.23	7.67	Jan-95	22.73
MW-04B	30.4	33.23	7.02	Apr-95	23.38
MW-04B	30.4	33.23	6.75	Jul-95	23.65
MW-04B	30.4	33.23	8.72	Oct-95	21.68
MW-04B	30.4	33.23	6.87	Jan-96	23.53
MW-04B	30.4	33.23	6.22	Apr-96	24.18
MW-04B	30.4	33.23	6.67	Jul-96	23.73
MW-04B	30.4	33.23	5.63	Oct-96	24.77
MW-04B	30.4	33.23	5.5	Jan-97	24.9
MW-04B	30.4	33.23	6.72	Apr-97	23.68
MW-04B	30.4	33.23	9.07	Jul-97	21.33
MW-04B	30.4	33.23	9.12	Oct-97	21.28
MW-04B	30.4	33.23	6.12	Jan-98	24.28
MW-04B	30.4	33.23	NM	Apr-98	NM
MW-04B	30.4	33.23	NM	Jul-98	NM
MW-04B	30.4	33.23	8.07	Oct-98	22.33
MW-04B	30.4	33.23	7.38	Jan-99	23.02
MW-04B	30.4	33.23	6.87	Apr-99	23.53
MW-04B	30.4	33.23	7.97	Jul-99	22.43
MW-04B	30.4	33.23	4.27	Oct-99	26.13
MW-04B	30.4	33.23	6.77	Jan-00	23.63
MW-04B	30.4	33.23	6.17	Apr-00	24.23
MW-05	30.6	32.82	5.37	Nov-89	25.23
MW-05	30.6	32.82	5.32	Dec-89	25.28
MW-05	30.6	32.82	3.53	Feb-90	27.07
MW-05	30.6	32.82	5.17	Aug-90	25.43
MW-05	30.6	32.82	5.13	Nov-90	25.47
MW-06	28.5	30.71	4.81	Nov-89	23.69
MW-06	28.5	30.71	5.01	Dec-89	23.49
MW-06	28.5	30.71	4.02	Feb-90	24.48
MW-06	28.5	30.71	4.68	Aug-90	23.82
MW-06	28.5	30.71	4.74	Nov-90	23.76
MW-06	28.5	30.71	2.89	Feb-93	25.61
MW-06	28.5	30.71	5.9	Oct-93	22.6
MW-06	28.5	30.71	4.59	Jan-94	23.91
MW-06	28.5	30.71	4.14	Apr-94	24.36
MW-06	28.5	30.71	5.31	Jul-94	23.19
MW-06	28.5	30.71	5.22	Oct-94	23.28
MW-06	28.5	30.71	4.83	Jan-95	23.67
MW-06	28.5	30.71	4.46	Apr-95	24.04
MW-06	28.5	30.71	3.83	Jul-95	24.67
MW-06	28.5	30.71	5.57	Oct-95	22.93
MW-06	28.5	30.71	4.42	Jan-96	24.08
MW-06	28.5	30.71	3.34	Apr-96	25.16
MW-06	28.5	30.71	2.74	Jul-96	25.76
MW-06	28.5	30.71	3.66	Oct-96	24.84
MW-06	28.5	30.71	3.74	Jan-97	24.76
MW-06	28.5	30.71	4.14	Apr-97	24.36
MW-06	28.5	30.71	4.97	Jul-97	23.53
MW-06	28.5	30.71	5.66	Oct-97	22.84
MW-06	28.5	30.71	3.83	Jan-98	24.67

All Elevations are in Feet Above Mean Sea Level.
NM = Not Measured.

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-06	28.5	30.71	NM	Apr-98	NM
MW-06	28.5	30.71	NM	Jul-98	NM
MW-06	28.5	30.71	4.72	Oct-98	23.78
MW-06	28.5	30.71	5.3	Jan-99	23.2
MW-06	28.5	30.71	6.26	Apr-99	22.24
MW-06	28.5	30.71	3.89	Jul-99	24.61
MW-06	28.5	30.71	2.14	Oct-99	26.36
MW-06	28.5	30.71	3.39	Jan-00	25.11
MW-06	28.5	30.71	3.49	Apr-00	25.01
MW-07A	27.9	30.18	4.54	Nov-89	23.36
MW-07A	27.9	30.18	4.74	Dec-89	23.16
MW-07A	27.9	30.18	3.81	Feb-90	24.09
MW-07A	27.9	30.18	2.97	Aug-90	24.93
MW-07A	27.9	30.18	4.32	Nov-90	23.58
MW-07A	27.9	30.18	4.41	Feb-91	23.49
MW-07A	27.9	30.18	4.39	Apr-91	23.51
MW-07A	27.9	30.18	2.07	Feb-93	25.83
MW-07A	27.9	30.18	3.44	Oct-93	24.46
MW-07A	27.9	30.18	3.45	Jan-94	24.45
MW-07A	27.9	30.18	3.15	Apr-94	24.75
MW-07A	27.9	30.18	3.57	Jul-94	24.33
MW-07A	27.9	30.18	4.27	Oct-94	23.63
MW-07A	27.9	30.18	3.22	Jan-95	24.68
MW-07A	27.9	30.18	4.37	Apr-95	23.53
MW-07A	27.9	30.18	2.92	Jul-95	24.98
MW-07A	27.9	30.18	3.87	Oct-95	24.03
MW-07A	27.9	30.18	3.13	Jan-96	24.77
MW-07A	27.9	30.18	3.19	Apr-96	24.71
MW-07A	27.9	30.18	2.59	Jul-96	25.31
MW-07A	27.9	30.18	2.97	Oct-96	24.93
MW-07A	27.9	30.18	2.68	Jan-97	25.22
MW-07A	27.9	30.18	2.7	Apr-97	25.2
MW-07A	27.9	30.18	2.97	Jul-97	24.93
MW-07A	27.9	30.18	4.47	Oct-97	23.43
MW-07A	27.9	30.18	1.69	Jan-98	26.21
MW-07A	27.9	30.18	NM	Apr-98	NM
MW-07A	27.9	30.18	NM	Jul-98	NM
MW-07A	27.9	30.18	3.63	Oct-98	24.27
MW-07A	27.9	30.18	3.65	Jan-99	24.25
MW-07A	27.9	30.18	2.82	Apr-99	25.08
MW-07A	27.9	30.18	2.22	Jul-99	25.68
MW-07A	27.9	30.18	2.62	Oct-99	25.28
MW-07A	27.9	30.18	3.37	Jan-00	24.53
MW-07A	27.9	30.18	3.37	Apr-00	24.53
MW-07B	27.8	30.53	7.1	Nov-89	20.7
MW-07B	27.8	30.53	7.27	Dec-89	20.53
MW-07B	27.8	30.53	5.67	Feb-90	22.13
MW-07B	27.8	30.53	7.93	Aug-90	19.87
MW-07B	27.8	30.53	7.9	Nov-90	19.9
MW-07B	27.8	30.53	6.06	Feb-91	21.74
MW-07B	27.8	30.53	5.14	Apr-91	22.66
MW-07B	27.8	30.53	2.88	Feb-93	24.92
MW-07B	27.8	30.53	6.41	Oct-93	21.39
MW-07B	27.8	30.53	4.95	Jan-94	22.85
MW-07B	27.8	30.53	3.22	Apr-94	24.58
MW-07B	27.8	30.53	5.07	Jul-94	22.73
MW-07B	27.8	30.53	6.22	Oct-94	21.58

All Elevations are in Feet Above Mean Sea Level.
NM = Not Measured.

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-07B	27.8	30.53	4.85	Jan-95	22.95
MW-07B	27.8	30.53	2.92	Apr-95	24.88
MW-07B	27.8	30.53	3.97	Jul-95	23.83
MW-07B	27.8	30.53	5.99	Oct-95	21.81
MW-07B	27.8	30.53	4.1	Jan-96	23.7
MW-07B	27.8	30.53	3.4	Apr-96	24.4
MW-07B	27.8	30.53	3.92	Jul-96	23.88
MW-07B	27.8	30.53	2.87	Oct-96	24.93
MW-07B	27.8	30.53	2.98	Jan-97	24.82
MW-07B	27.8	30.53	3.55	Apr-97	24.25
MW-07B	27.8	30.53	6.23	Jul-97	21.57
MW-07B	27.8	30.53	6.45	Oct-97	21.35
MW-07B	27.8	30.53	3.37	Jan-98	24.43
MW-07B	27.8	30.53	NM	Apr-98	NM
MW-07B	27.8	30.53	NM	Jul-98	NM
MW-07B	27.8	30.53	5.24	Oct-98	22.56
MW-07B	27.8	30.53	4.67	Jan-99	23.13
MW-07B	27.8	30.53	4.17	Apr-99	23.63
MW-07B	27.8	30.53	5.33	Jul-99	22.47
MW-07B	27.8	30.53	1.53	Oct-99	26.27
MW-07B	27.8	30.53	3.82	Jan-00	23.98
MW-07B	27.8	30.53	3.37	Apr-00	24.43
MW-08	29	31.18	4.08	Nov-89	24.92
MW-08	29	31.18	3.92	Dec-89	25.08
MW-08	29	31.18	2.16	Feb-90	26.84
MW-08	29	31.18	3.92	Aug-90	25.08
MW-08	29	31.18	3.9	Nov-90	25.1
MW-08	29	31.18	1.92	Feb-93	27.08
MW-08	29	31.18	5.4	Oct-93	23.6
MW-08	29	31.18	4	Jan-94	25
MW-08	29	31.18	3.13	Apr-94	25.87
MW-08	29	31.18	5.32	Jul-94	23.68
MW-08	29	31.18	5.2	Oct-94	23.8
MW-08	29	31.18	3.72	Jan-95	25.28
MW-08	29	31.18	3.47	Apr-95	25.53
MW-08	29	31.18	2.87	Jul-95	26.13
MW-08	29	31.18	5.42	Oct-95	23.58
MW-08	29	31.18	3.45	Jan-96	25.55
MW-08	29	31.18	2.94	Apr-96	26.06
MW-08	29	31.18	2.45	Jul-96	26.55
MW-08	29	31.18	3.62	Oct-96	25.38
MW-08	29	31.18	2.27	Jan-97	26.73
MW-08	29	31.18	3.27	Apr-97	25.73
MW-08	29	31.18	5.12	Jul-97	23.88
MW-08	29	31.18	5.37	Oct-97	23.63
MW-08	29	31.18	1.62	Jan-98	27.38
MW-08	29	31.18	NM	Apr-98	NM
MW-08	29	31.18	NM	Jul-98	NM
MW-08	29	31.18	4.3	Oct-98	24.7
MW-08	29	31.18	3.74	Jan-99	25.26
MW-08	29	31.18	2.57	Apr-99	26.43
MW-08	29	31.18	3.92	Jul-99	25.08
MW-08	29	31.18	2.24	Oct-99	26.76
MW-08	29	31.18	2.5	Jan-00	26.50
MW-08	29	31.18	2.77	Apr-00	26.23
MW-09	29.7	32.78	5.6	Nov-89	24.1
MW-09	29.7	32.78	5.45	Dec-89	24.25

All Elevations are in Feet Above Mean Sea Level.
NM = Not Measured.

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-09	29.7	32.78	3.05	Feb-90	26.65
MW-09	29.7	32.78	5.26	Aug-90	24.44
MW-09	29.7	32.78	5.01	Nov-90	24.69
MW-09	29.7	32.78	2.52	Feb-93	27.18
MW-09	29.7	32.78	6.9	Oct-93	22.8
MW-09	29.7	32.78	4.54	Jan-94	25.16
MW-09	29.7	32.78	3.57	Apr-94	26.13
MW-09	29.7	32.78	4.52	Jul-94	25.18
MW-09	29.7	32.78	5.99	Oct-94	23.71
MW-09	29.7	32.78	4.22	Jan-95	25.48
MW-09	29.7	32.78	3.84	Apr-95	25.86
MW-09	29.7	32.78	4	Jul-95	25.7
MW-09	29.7	32.78	6.32	Oct-95	23.38
MW-09	29.7	32.78	3.95	Jan-96	25.75
MW-09	29.7	32.78	3.3	Apr-96	26.4
MW-09	29.7	32.78	3	Jul-96	26.7
MW-09	29.7	32.78	3.07	Oct-96	26.63
MW-09	29.7	32.78	2.73	Jan-97	26.97
MW-09	29.7	32.78	3.72	Apr-97	25.98
MW-09	29.7	32.78	6.02	Jul-97	23.68
MW-09	29.7	32.78	6.17	Oct-97	23.53
MW-09	29.7	32.78	2.42	Jan-98	27.28
MW-09	29.7	32.78	NM	Apr-98	NM
MW-09	29.7	32.78	NM	Jul-98	NM
MW-09	29.7	32.78	4.99	Oct-98	24.71
MW-09	29.7	32.78	4.3	Jan-99	25.4
MW-09	29.7	32.78	3.11	Apr-99	26.59
MW-09	29.7	32.78	4.92	Jul-99	24.78
MW-09	29.7	32.78	1.57	Oct-99	28.13
MW-09	29.7	32.78	3.14	Jan-00	26.56
MW-09	29.7	32.78	3.12	Apr-00	26.58
MW-10A	30.6	33.1	5.74	Nov-89	24.86
MW-10A	30.6	33.1	5.6	Dec-89	25
MW-10A	30.6	33.1	3.79	Feb-90	26.81
MW-10A	30.6	33.1	5.35	Aug-90	25.25
MW-10A	30.6	33.1	5.27	Nov-90	25.33
MW-10A	30.6	33.1	4.37	Feb-91	26.23
MW-10A	30.6	33.1	3.73	Apr-91	26.87
MW-10A	30.6	33.1	3.7	Feb-93	26.9
MW-10A	30.6	33.1	7.43	Oct-93	23.17
MW-10A	30.6	33.1	5.67	Jan-94	24.93
MW-10A	30.6	33.1	4.58	Apr-94	26.02
MW-10A	30.6	33.1	5.7	Jul-94	24.9
MW-10A	30.6	33.1	6.77	Oct-94	23.83
MW-10A	30.6	33.1	5.53	Jan-95	25.07
MW-10A	30.6	33.1	4.9	Apr-95	25.7
MW-10A	30.6	33.1	4.65	Jul-95	25.95
MW-10A	30.6	33.1	7.02	Oct-95	23.58
MW-10A	30.6	33.1	5.23	Jan-96	25.37
MW-10A	30.6	33.1	4.35	Apr-96	26.25
MW-10A	30.6	33.1	3.92	Jul-96	26.68
MW-10A	30.6	33.1	4.12	Oct-96	26.48
MW-10A	30.6	33.1	3.9	Jan-97	26.7
MW-10A	30.6	33.1	4.72	Apr-97	25.88
MW-10A	30.6	33.1	6.67	Jul-97	23.93
MW-10A	30.6	33.1	6.95	Oct-97	23.65
MW-10A	30.6	33.1	3.8	Jan-98	26.8

All Elevations are in Feet Above Mean Sea Level.
NM = Not Measured.

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-10A	30.6	33.1	NM	Apr-98	NM
MW-10A	30.6	33.1	NM	Jul-98	NM
MW-10A	30.6	33.1	5.64	Oct-98	24.96
MW-10A	30.6	33.1	5.66	Jan-99	24.94
MW-10A	30.6	33.1	5.2	Apr-99	25.40
MW-10A	30.6	33.1	5.32	Jul-99	25.28
MW-10A	30.6	33.1	2.22	Oct-99	28.38
MW-10A	30.6	33.1	4.18	Jan-00	26.42
MW-10A	30.6	33.1	3.86	Apr-00	26.74
MW-10B	30.6	32.43	NM	Nov-89	NM
MW-10B	30.6	32.43	NM	Dec-89	NM
MW-10B	30.6	32.43	NM	Feb-90	NM
MW-10B	30.6	32.43	11.93	Aug-90	18.67
MW-10B	30.6	32.43	11.2	Nov-90	19.4
MW-10B	30.6	32.43	9.68	Feb-91	20.92
MW-10B	30.6	32.43	8.79	Apr-91	21.81
MW-10B	30.6	32.43	6.68	Feb-93	23.92
MW-10B	30.6	32.43	9.59	Oct-93	21.01
MW-10B	30.6	32.43	8.77	Jan-94	21.83
MW-10B	30.6	32.43	6.99	Apr-94	23.61
MW-10B	30.6	32.43	8.82	Jul-94	21.78
MW-10B	30.6	32.43	10.02	Oct-94	20.58
MW-10B	30.6	32.43	8.89	Jan-95	21.71
MW-10B	30.6	32.43	7.82	Apr-95	22.78
MW-10B	30.6	32.43	7.82	Jul-95	22.78
MW-10B	30.6	32.43	9.72	Oct-95	20.88
MW-10B	30.6	32.43	7.92	Jan-96	22.68
MW-10B	30.6	32.43	7.17	Apr-96	23.43
MW-10B	30.6	32.43	7.79	Jul-96	22.81
MW-10B	30.6	32.43	6.69	Oct-96	23.91
MW-10B	30.6	32.43	6.69	Jan-97	23.91
MW-10B	30.6	32.43	7.7	Apr-97	22.9
MW-10B	30.6	32.43	10.07	Jul-97	20.53
MW-10B	30.6	32.43	10.25	Oct-97	20.35
MW-10B	30.6	32.43	7.97	Jan-98	22.63
MW-10B	30.6	32.43	NM	Apr-98	NM
MW-10B	30.6	32.43	NM	Jul-98	NM
MW-10B	30.6	32.43	9.02	Oct-98	21.58
MW-10B	30.6	32.43	8.41	Jan-99	22.19
MW-10B	30.6	32.43	7.62	Apr-99	22.98
MW-10B	30.6	32.43	8.97	Jul-99	21.63
MW-10B	30.6	32.43	5.37	Oct-99	25.23
MW-10B	30.6	32.43	7.61	Jan-00	22.99
MW-10B	30.6	32.43	7.17	Apr-00	23.43
MW-11A	30.1	32.82	5.48	Nov-89	24.62
MW-11A	30.1	32.82	5.65	Dec-89	24.45
MW-11A	30.1	32.82	3.9	Feb-90	26.2
MW-11A	30.1	32.82	5.02	Aug-90	25.08
MW-11A	30.1	32.82	4.74	Nov-90	25.36
MW-11A	30.1	32.82	4.17	Feb-91	25.93
MW-11A	30.1	32.82	3.73	Apr-91	26.37
MW-11A	30.1	32.82	3.31	Feb-93	26.79
MW-11A	30.1	32.82	7.13	Oct-93	22.97
MW-11A	30.1	32.82	5.35	Jan-94	24.75
MW-11A	30.1	32.82	4.28	Apr-94	25.82
MW-11A	30.1	32.82	4.83	Jul-94	25.27
MW-11A	30.1	32.82	6.4	Oct-94	23.7

All Elevations are in Feet Above Mean Sea Level.
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Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-11A	30.1	32.82	5.46	Jan-95	24.64
MW-11A	30.1	32.82	4.68	Apr-95	25.42
MW-11A	30.1	32.82	4.13	Jul-95	25.97
MW-11A	30.1	32.82	6.08	Oct-95	24.02
MW-11A	30.1	32.82	5.06	Jan-96	25.04
MW-11A	30.1	32.82	4.09	Apr-96	26.01
MW-11A	30.1	32.82	3.62	Jul-96	26.48
MW-11A	30.1	32.82	3.88	Oct-96	26.22
MW-11A	30.1	32.82	3.85	Jan-97	26.25
MW-11A	30.1	32.82	4.56	Apr-97	25.54
MW-11A	30.1	32.82	6.28	Jul-97	23.82
MW-11A	30.1	32.82	6.56	Oct-97	23.54
MW-11A	30.1	32.82	3.4	Jan-98	26.7
MW-11A	30.1	32.82	NM	Apr-98	NM
MW-11A	30.1	32.82	NM	Jul-98	NM
MW-11A	30.1	32.82	5.31	Oct-98	24.79
MW-11A	30.1	32.82	5.46	Jan-99	24.64
MW-11A	30.1	32.82	4.53	Apr-99	25.57
MW-11A	30.1	32.82	5.33	Jul-99	24.77
MW-11A	30.1	32.82	2.64	Oct-99	27.46
MW-11A	30.1	32.82	2.64	Oct-99	27.46
MW-11A	30.1	32.82	5.24	Jan-00	24.86
MW-11A	30.1	32.82	4.03	Apr-00	26.07
MW-11B	30.6	33.11	9.45	Feb-91	21.15
MW-11B	30.6	33.11	8.54	Apr-91	22.06
MW-11B	30.6	33.11	6.27	Feb-93	24.33
MW-11B	30.6	33.11	9.76	Oct-93	20.84
MW-11B	30.6	33.11	8.34	Jan-94	22.26
MW-11B	30.6	33.11	6.59	Apr-94	24.01
MW-11B	30.6	33.11	8.49	Jul-94	22.11
MW-11B	30.6	33.11	9.66	Oct-94	20.94
MW-11B	30.6	33.11	8.27	Jan-95	22.33
MW-11B	30.6	33.11	7.39	Apr-95	23.21
MW-11B	30.6	33.11	7.34	Jul-95	23.26
MW-11B	30.6	33.11	9.32	Oct-95	21.28
MW-11B	30.6	33.11	7.51	Jan-96	23.09
MW-11B	30.6	33.11	6.74	Apr-96	23.86
MW-11B	30.6	33.11	7.31	Jul-96	23.29
MW-11B	30.6	33.11	6.21	Oct-96	24.39
MW-11B	30.6	33.11	6.24	Jan-97	24.36
MW-11B	30.6	33.11	7.27	Apr-97	23.33
MW-11B	30.6	33.11	9.64	Jul-97	20.96
MW-11B	30.6	33.11	9.76	Oct-97	20.84
MW-11B	30.6	33.11	6.84	Jan-98	23.76
MW-11B	30.6	33.11	NM	Apr-98	NM
MW-11B	30.6	33.11	NM	Jul-98	NM
MW-11B	30.6	33.11	8.64	Oct-98	21.96
MW-11B	30.6	33.11	7.98	Jan-99	22.62
MW-11B	30.6	33.11	7.34	Apr-99	23.26
MW-11B	30.6	33.11	8.7	Jul-99	21.9
MW-11B	30.6	33.11	4.99	Oct-99	25.61
MW-11B	30.6	33.11	4.99	Oct-99	25.61
MW-11B	30.6	33.11	7.44	Jan-00	23.16
MW-11B	30.6	33.11	6.99	Apr-00	23.61
MW-12	27.5	30.03	3.1	Nov-89	24.4
MW-12	27.5	30.03	3.1	Dec-89	24.4
MW-12	27.5	30.03	1.39	Feb-90	26.11

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Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-12	27.5	30.03	1.83	Aug-90	25.67
MW-12	27.5	30.03	1.81	Nov-90	25.69
MW-12	27.5	30.03	1.82	Feb-93	25.68
MW-12	27.5	30.03	2.42	Oct-93	25.08
MW-12	27.5	30.03	2.2	Jan-94	25.3
MW-12	27.5	30.03	2.42	Apr-94	25.08
MW-12	27.5	30.03	3.62	Jul-94	23.88
MW-12	27.5	30.03	2.65	Oct-94	24.85
MW-12	27.5	30.03	1.85	Jan-95	25.65
MW-12	27.5	30.03	2.74	Apr-95	24.76
MW-12	27.5	30.03	2.33	Jul-95	25.17
MW-12	27.5	30.03	2.8	Oct-95	24.7
MW-12	27.5	30.03	2.02	Jan-96	25.48
MW-12	27.5	30.03	2.35	Apr-96	25.15
MW-12	27.5	30.03	1.89	Jul-96	25.61
MW-12	27.5	30.03	2.15	Oct-96	25.35
MW-12	27.5	30.03	1.98	Jan-97	25.52
MW-12	27.5	30.03	2.62	Apr-97	24.88
MW-12	27.5	30.03	2.74	Jul-97	24.76
MW-12	27.5	30.03	2.81	Oct-97	24.69
MW-12	27.5	30.03	0.62	Jan-98	26.88
MW-12	27.5	30.03	NM	Apr-98	NM
MW-12	27.5	30.03	NM	Jul-98	NM
MW-12	27.5	30.03	2.93	Oct-98	24.57
MW-12	27.5	30.03	1.84	Jan-99	25.66
MW-12	27.5	30.03	1.67	Apr-99	25.83
MW-12	27.5	30.03	1.82	Jul-99	25.68
MW-12	27.5	30.03	0.89	Oct-99	26.61
MW-12	27.5	30.03	1.27	Jan-00	26.23
MW-12	27.5	30.03	1.87	Apr-00	25.63
MW-13	27.1	30.03	3.37	Nov-89	23.73
MW-13	27.1	30.03	3.94	Dec-89	23.16
MW-13	27.1	30.03	3.66	Feb-90	23.44
MW-13	27.1	30.03	NM	Aug-90	NM
MW-13	27.1	30.03	NM	Nov-90	NM
MW-14A	25.4	28.48	NM	Nov-89	NM
MW-14A	25.4	28.48	NM	Dec-89	NM
MW-14A	25.4	28.48	3	Feb-90	22.4
MW-14A	25.4	28.48	3.07	Aug-90	22.33
MW-14A	25.4	28.48	3.17	Nov-90	22.23
MW-14A	25.4	28.48	2.3	Feb-91	23.1
MW-14A	25.4	28.48	3.29	Apr-91	22.11
MW-14A	25.4	28.48	2.94	Feb-93	22.46
MW-14A	25.4	28.48	3.55	Oct-93	21.85
MW-14A	25.4	28.48	3.26	Jan-94	22.14
MW-14A	25.4	28.48	3.57	Apr-94	21.83
MW-14A	25.4	28.48	4.7	Jul-94	20.7
MW-14A	25.4	28.48	3.77	Oct-94	21.63
MW-14A	25.4	28.48	3.12	Jan-95	22.28
MW-14A	25.4	28.48	3.7	Apr-95	21.7
MW-14A	25.4	28.48	0.62	Jul-95	24.78
MW-14A	25.4	28.48	4.12	Oct-95	21.28
MW-14A	25.4	28.48	3.08	Jan-96	22.32
MW-14A	25.4	28.48	3.48	Apr-96	21.92
MW-14A	25.4	28.48	3.32	Jul-96	22.08
MW-14A	25.4	28.48	3.36	Oct-96	22.04
MW-14A	25.4	28.48	3.2	Jan-97	22.2

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Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-14A	25.4	28.48	3.8	Apr-97	21.6
MW-14A	25.4	28.48	3.87	Jul-97	21.53
MW-14A	25.4	28.48	4	Oct-97	21.4
MW-14A	25.4	28.48	2.32	Jan-98	23.08
MW-14A	25.4	28.48	NM	Apr-98	NM
MW-14A	25.4	28.48	NM	Jul-98	NM
MW-14A	25.4	28.48	4.22	Oct-98	21.18
MW-14A	25.4	28.48	3.16	Jan-99	22.24
MW-14A	25.4	28.48	2.59	Apr-99	22.81
MW-14A	25.4	28.48	3.12	Jul-99	22.28
MW-14A	25.4	28.48	2.72	Oct-99	22.68
MW-14A	25.4	28.48	4.62	Jan-00	20.78
MW-14A	25.4	28.48	3.22	Apr-00	22.18
MW-14B	25.3	27.33	NM	Nov-89	NM
MW-14B	25.3	27.33	NM	Dec-89	NM
MW-14B	25.3	27.33	3.47	Feb-90	21.83
MW-14B	25.3	27.33	5.71	Aug-90	19.59
MW-14B	25.3	27.33	5.45	Nov-90	19.85
MW-14B	25.3	27.33	3.85	Feb-91	21.45
MW-14B	25.3	27.33	2.92	Apr-91	22.38
MW-14B	25.3	27.33	0.57	Feb-93	24.73
MW-14B	25.3	27.33	4.04	Oct-93	21.26
MW-14B	25.3	27.33	2.67	Jan-94	22.63
MW-14B	25.3	27.33	0.92	Apr-94	24.38
MW-14B	25.3	27.33	3.87	Jul-94	21.43
MW-14B	25.3	27.33	4.12	Oct-94	21.18
MW-14B	25.3	27.33	2.6	Jan-95	22.7
MW-14B	25.3	27.33	1.72	Apr-95	23.58
MW-14B	25.3	27.33	4.83	Jul-95	20.47
MW-14B	25.3	27.33	3.7	Oct-95	21.6
MW-14B	25.3	27.33	1.84	Jan-96	23.46
MW-14B	25.3	27.33	1.07	Apr-96	24.23
MW-14B	25.3	27.33	1.71	Jul-96	23.59
MW-14B	25.3	27.33	0.57	Oct-96	24.73
MW-14B	25.3	27.33	0.68	Jan-97	24.62
MW-14B	25.3	27.33	1.57	Apr-97	23.73
MW-14B	25.3	27.33	3.92	Jul-97	21.38
MW-14B	25.3	27.33	4.12	Oct-97	21.18
MW-14B	25.3	27.33	1.09	Jan-98	24.21
MW-14B	25.3	27.33	NM	Apr-98	NM
MW-14B	25.3	27.33	NM	Jul-98	NM
MW-14B	25.3	27.33	2.97	Oct-98	22.33
MW-14B	25.3	27.33	2.35	Jan-99	22.95
MW-14B	25.3	27.33	1.67	Apr-99	23.63
MW-14B	25.3	27.33	2.87	Jul-99	22.43
MW-14B	25.3	27.33	NM	Oct-99.	NM
MW-14B	25.3	27.33	1.47	Jan-00	23.83
MW-14B	25.3	27.33	1.17	Apr-00	24.13
MW-15	26.2	28.96	NM	Nov-89	NM
MW-15	26.2	28.96	NM	Dec-89	NM
MW-15	26.2	28.96	2.15	Feb-90	24.05
MW-15	26.2	28.96	2.29	Aug-90	23.91
MW-15	26.2	28.96	2.6	Nov-90	23.6
MW-15	26.2	28.96	1.44	Feb-93	24.76
MW-15	26.2	28.96	4.48	Oct-93	21.72
MW-15	26.2	28.96	2.87	Jan-94	23.33
MW-15	26.2	28.96	3.32	Apr-94	22.88

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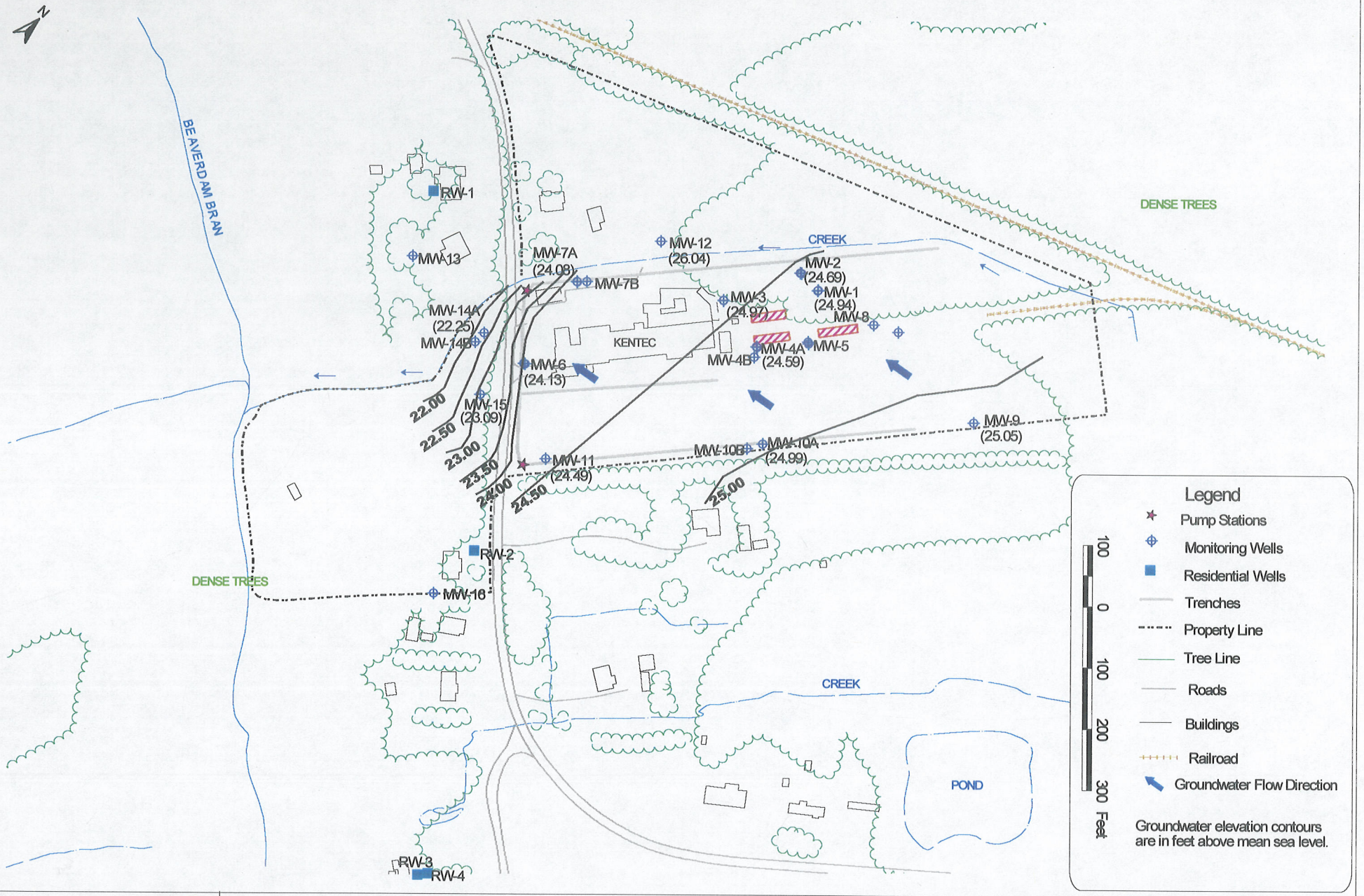
NM = Not Measured.

Kentec Groundwater Data
Water-Level Elevations

MONITORING POINT	GROUND ELEVATION	ELEVATION OF MEASURING POINT	DEPTH TO GROUNDWATER	DATE	ELEVATION OF POTENTIOMETRIC SURFACE
MW-15	26.2	28.96	4.94	Jul-94	21.26
MW-15	26.2	28.96	4.34	Oct-94	21.86
MW-15	26.2	28.96	2.69	Jan-95	23.51
MW-15	26.2	28.96	3.81	Apr-95	22.39
MW-15	26.2	28.96	3.17	Jul-95	23.03
MW-15	26.2	28.96	4.54	Oct-95	21.66
MW-15	26.2	28.96	2.54	Jan-96	23.66
MW-15	26.2	28.96	2.84	Apr-96	23.36
MW-15	26.2	28.96	2.08	Jul-96	24.12
MW-15	26.2	28.96	2.44	Oct-96	23.76
MW-15	26.2	28.96	1.84	Jan-97	24.36
MW-15	26.2	28.96	3.38	Apr-97	22.82
MW-15	26.2	28.96	4.33	Jul-97	21.87
MW-15	26.2	28.96	4.71	Oct-97	21.49
MW-15	26.2	28.96	0.71	Jan-98	25.49
MW-15	26.2	28.96	NM	Apr-98	NM
MW-15	26.2	28.96	NM	Jul-98	NM
MW-15	26.2	28.96	4.18	Oct-98	22.02
MW-15	26.2	28.96	2.78	Jan-99	23.42
MW-15	26.2	28.96	2.19	Apr-99	24.01
MW-15	26.2	28.96	2.54	Jul-99	23.66
MW-15	26.2	28.96	0.84	Oct-99	25.36
MW-15	26.2	28.96	1.78	Jan-00	24.42
MW-15	26.2	28.96	2.39	Apr-00	23.81
MW-16	29.5	29.5	NM	Nov-89	NM
MW-16	29.5	29.5	NM	Dec-89	NM
MW-16	29.5	29.5	4.13	Feb-90	25.37
MW-16	29.5	29.5	4.82	Aug-90	24.68
MW-16	29.5	29.5	NM	Nov-90	NM
MW-16	29.5	29.5	3.67	Feb-93	25.83
MW-16	29.5	29.5	6.13	Oct-93	23.37
MW-16	29.5	29.5	5.12	Jan-94	24.38
MW-16	29.5	29.5	4.5	Apr-94	25
MW-16	29.5	29.5	7.37	Jul-94	22.13
MW-16	29.5	29.5	5.9	Oct-94	23.6
MW-16	29.5	29.5	6.8	Jan-95	22.7
MW-16	29.5	29.5	4.6	Apr-95	24.9
MW-16	29.5	29.5	4.12	Jul-95	25.38
MW-16	29.5	29.5	5.85	Oct-95	23.65
MW-16	29.5	29.5	4.8	Jan-96	24.7
MW-16	29.5	29.5	4.37	Apr-96	25.13
MW-16	29.5	29.5	3.85	Jul-96	25.65
MW-16	29.5	29.5	3.9	Oct-96	25.6
MW-16	29.5	29.5	3.9	Jan-97	25.6
MW-16	29.5	29.5	4.6	Apr-97	24.9
MW-16	29.5	29.5	5.45	Jul-97	24.05
MW-16	29.5	29.5	5.8	Oct-97	23.7
MW-16	29.5	29.5	3.45	Jan-98	26.05
MW-16	29.5	29.5	NM	Apr-98	NM
MW-16	29.5	29.5	NM	Jul-98	NM
MW-16	29.5	29.5	5.1	Oct-98	24.4
MW-16	29.5	29.5	4.89	Jan-99	24.61
MW-16	29.5	29.5	4.4	Apr-99	25.10
MW-16	29.5	29.5	4.97	Jul-99	24.53
MW-16	29.5	29.5	2.7	Oct-99	26.80
MW-16	29.5	29.5	3.92	Jan-00	25.58
MW-16	29.5	29.5	3.6	Apr-00	25.90

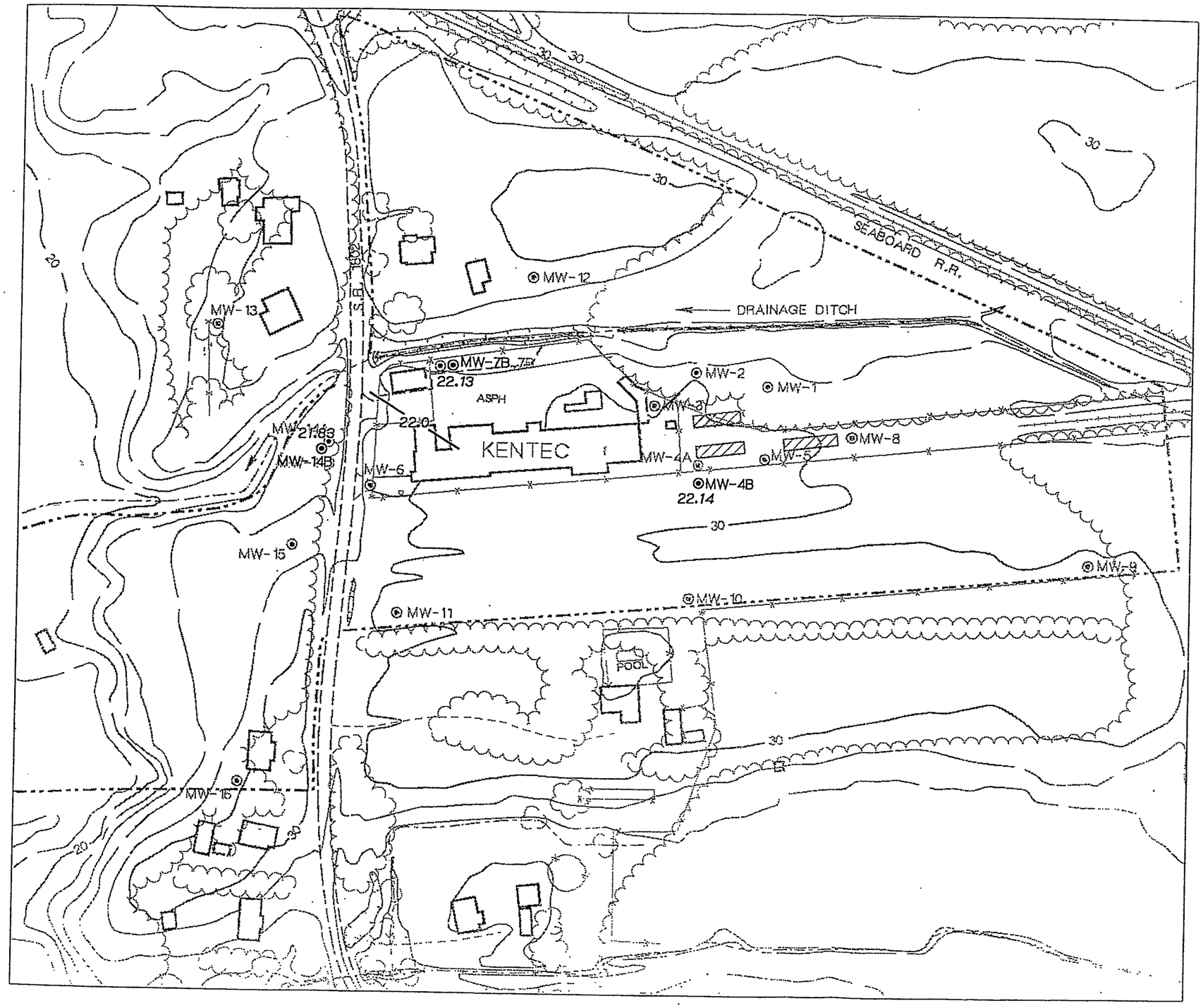
All Elevations are in Feet Above Mean Sea Level.
NM = Not Measured.



CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Diamond
6324 Fairveiw Road
Charlotte, NC 28210

DuPont Kentec Facility
Potentiometric Map - February 13, 2001

DRAWN	APPROVED	PROJECT #
EA	AFA	
CHECKED	DATE	FIGURE #
MH	5/24/01	
FILE NAME	REVISION	



N

LEGEND

⊙ DEEP MONITORING WELL

—22— EQUIPOTENTIAL LINE (IN FEET ABOVE MSL)

EQUIPOTENTIAL LINES ARE INTERPOLATED BETWEEN DATA POINTS.

0 75 150 225

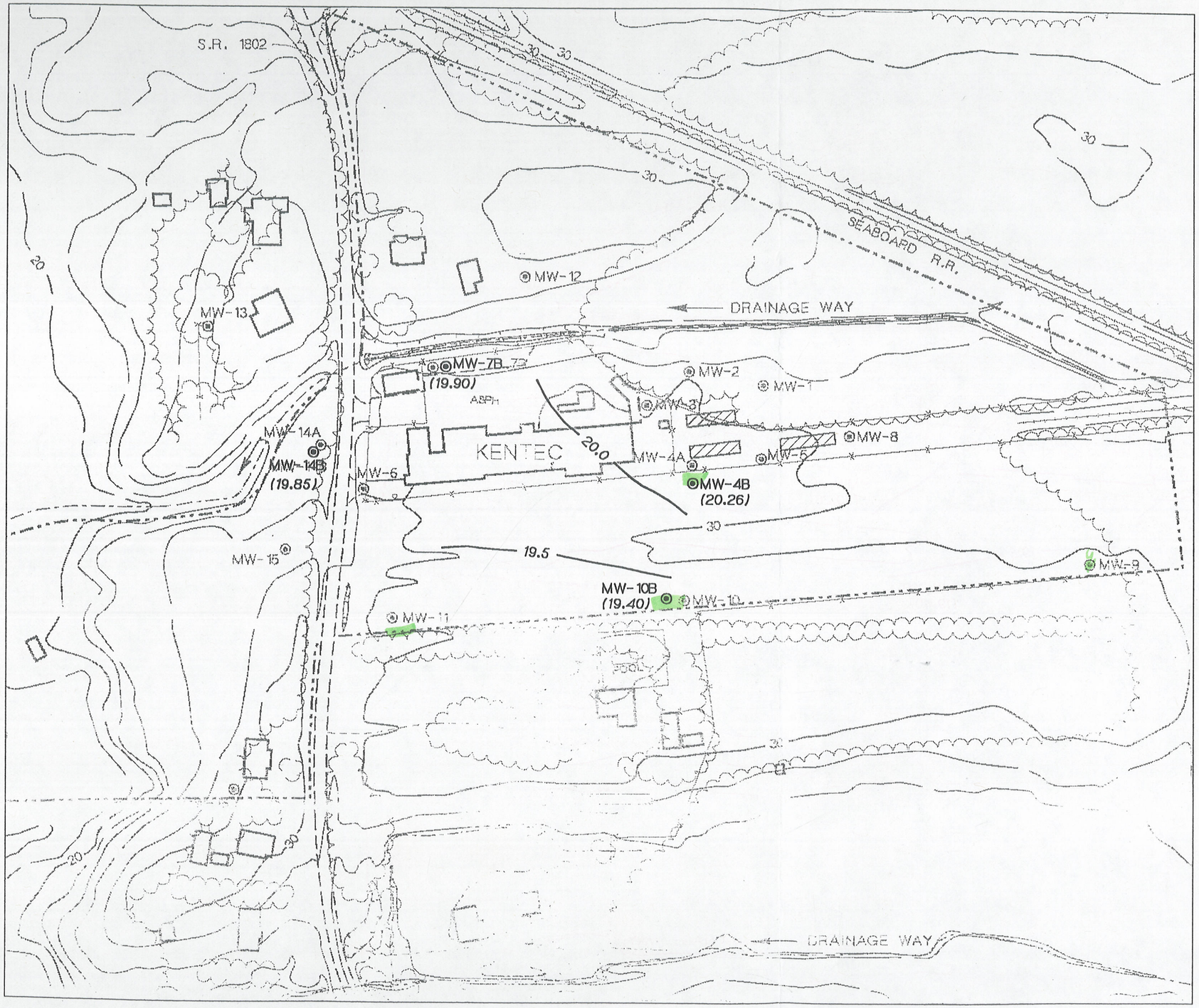
SCALE: 1"=150'

NOTE: BASE MAP COMPILED FROM AERIAL PHOTOGRAPHY FLOWN ON 2/10/89.

Figure 3-2

POTENTIOMETRIC SURFACE IN THE PEEDEE AQUIFER
FEBRUARY 1, 1990
Du Pont Kentec Facility

CH2M HILL



N

LEGEND

⊙ (20.26)	DEEP MONITORING WELL WATER LEVEL MEASURED
— 20.0 —	EQUIPOTENTIAL LINE (IN FEET ABOVE MSL)

EQUIPOTENTIAL LINES ARE INTERPOLATED BETWEEN DATA POINTS.

0 75 150 225

SCALE: 1"=150'

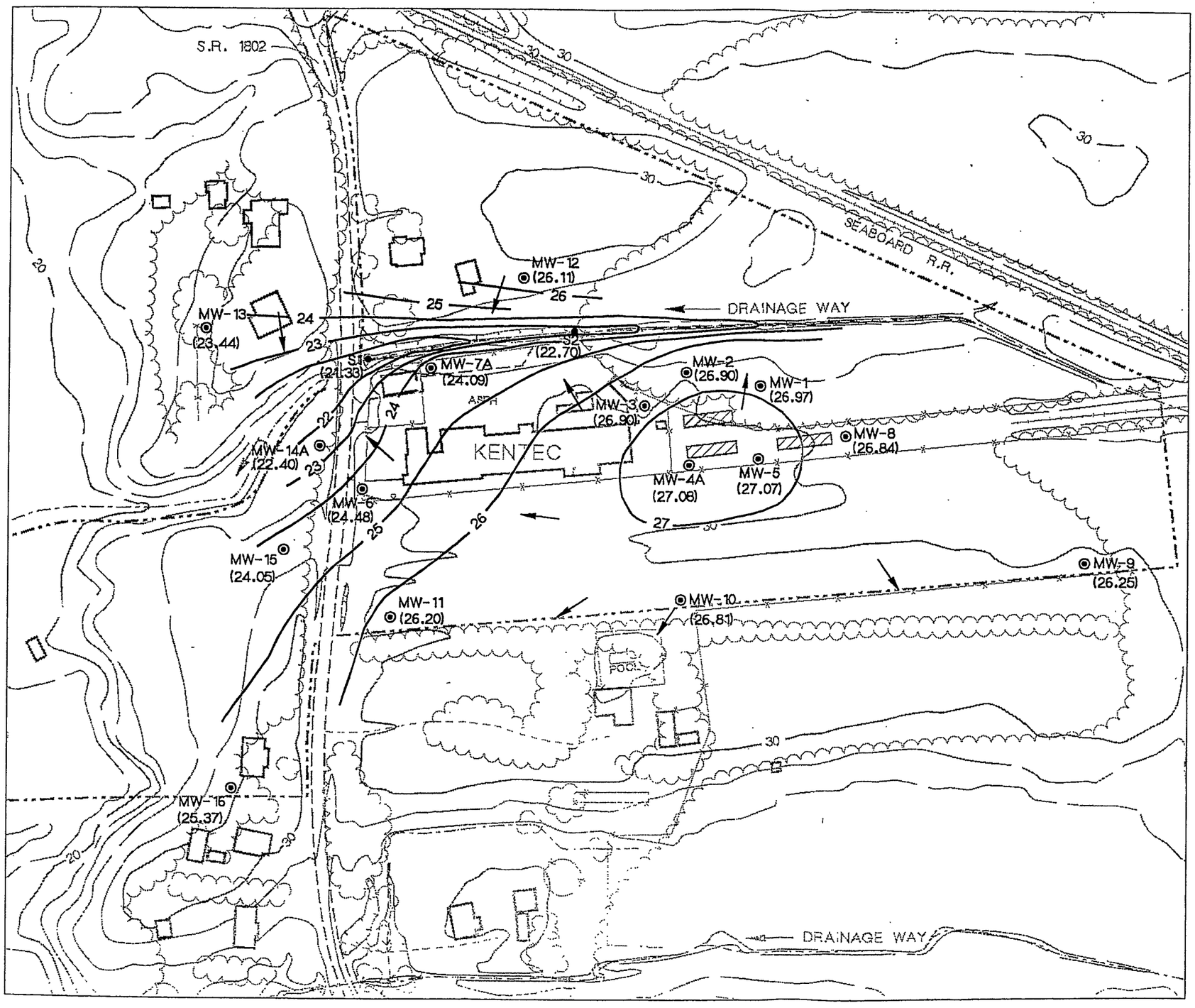
NOTE: BASE MAP COMPILED FROM AERIAL PHOTOGRAPHY FLOWN ON 2/10/89.

Figure 3-2

POTENTIOMETRIC SURFACE IN THE PEEDEE AQUIFER NOVEMBER 15, 1990 Du Pont Kentec Facility

CH2M HILL

2388fc08.dgn 20-Mar-1991



LEGEND

- • SURFACE WATER MEASURING POINT
  (21.33) WATER LEVEL MEASURED
- ⊙ SHALLOW MONITORING WELL
  (26.65) WATER LEVEL MEASURED
- —26— EQUIPOTENTIAL LINE (IN FEET ABOVE MSL)
- ← APPROXIMATE DIRECTION OF GROUNDWATER FLOW

EQUIPOTENTIAL LINES ARE INTERPOLATED BETWEEN DATA POINTS.

0 75 150 225

SCALE: 1"=150'

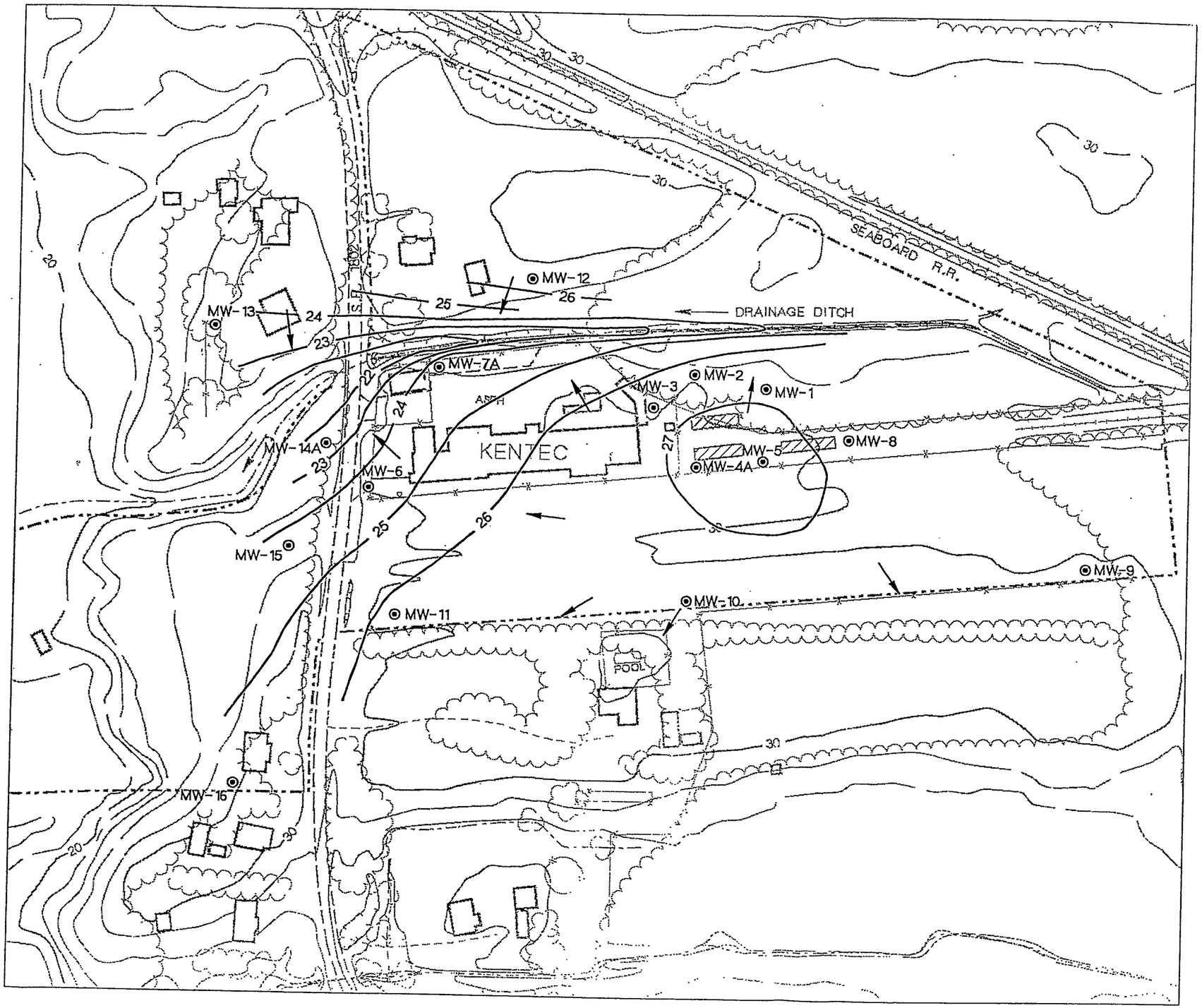
NOTE: BASE MAP COMPILED FROM AERIAL PHOTOGRAPHY FLOWN ON 2/10/89.

Figure 3-1

POTENTIOMETRIC SURFACE IN SURFICIAL AQUIFER FEBRUARY 1, 1990 Du Pont Kentec Facility

CH2M HILL

2398fc07.dgn 20-Mar-1991



N

LEGEND

- SHALLOW MONITORING WELL
- —26— EQUIPOTENTIAL LINE (IN FEET ABOVE MSL)
- ← APPROXIMATE DIRECTION OF GROUNDWATER FLOW

EQUIPOTENTIAL LINES ARE INTERPOLATED BETWEEN DATA POINTS.

0 75 150 225

SCALE: 1"=150'

NOTE: BASE MAP COMPILED FROM AERIAL PHOTOGRAPHY FLOWN ON 2/10/89.

Figure 3-1

POTENTIOMETRIC SURFACE IN SHALLOW ZONE
FEBRUARY 1, 1990
Du Pont Kentec Facility

CH2M HILL