173IHSSF238

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Site Name	DUPONT-KENTEC
DocumentType	Remedial Action Plan (RAP)
RptSegment	2
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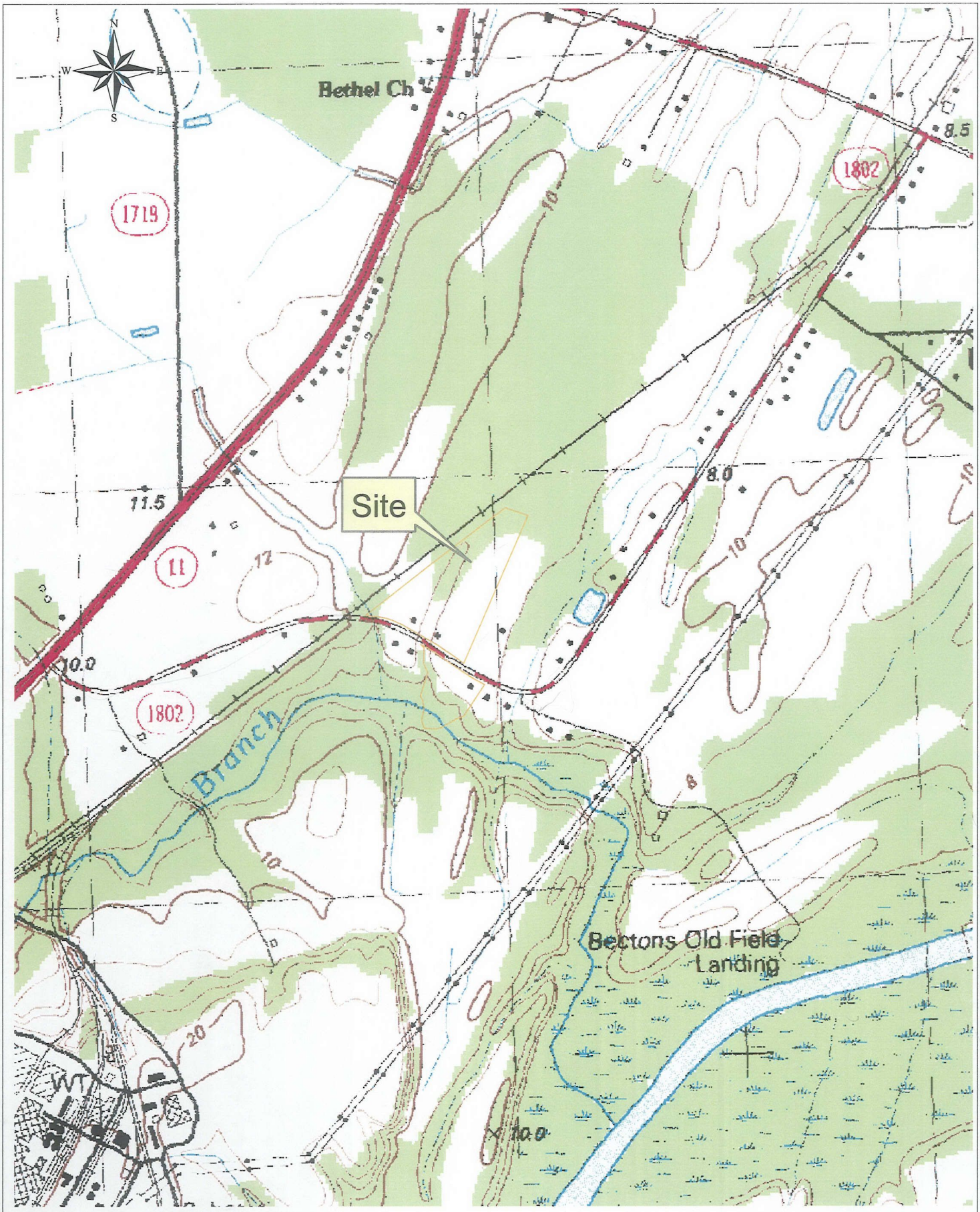
Box	SF238
AccessLevel	Public
Division	Waste Management
Section	Superfund
Program	IHS (IHS)
DocCat	Facility

FIGURES



0 500 1,000 2,000 Feet

USGS Topo Quad provided by USGS
Map Scale: 1/12,000
Map Projection: NC State Plane Feet, NAD 83

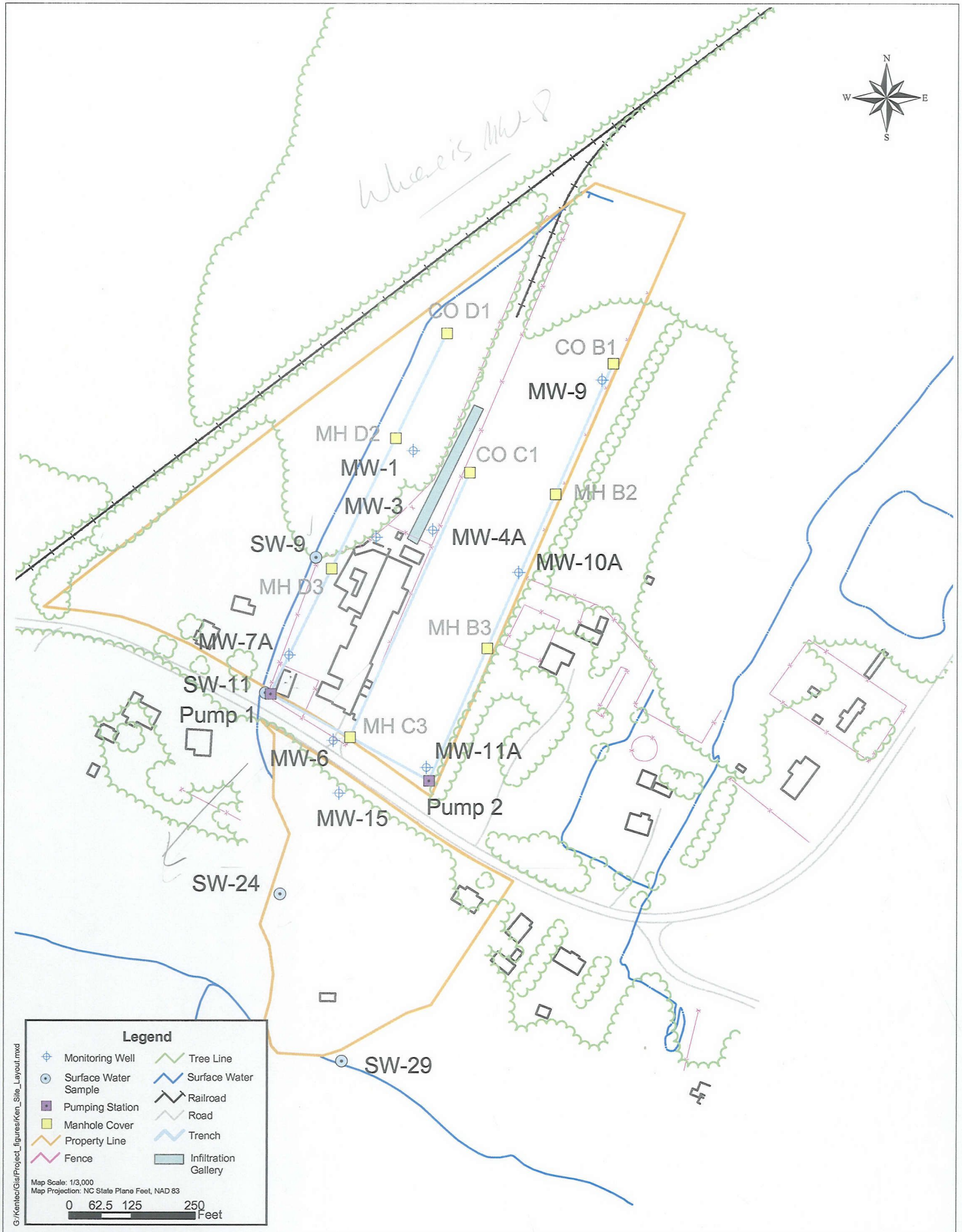
G:/Kentec/Gis/Project_figures/Ken_Topo.mxd

DUPONT

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Corporation - North Carolina
6324 Fairveiw Road
Charlotte, NC 28210

TITLE:
Site Location Map
Kentec Plant

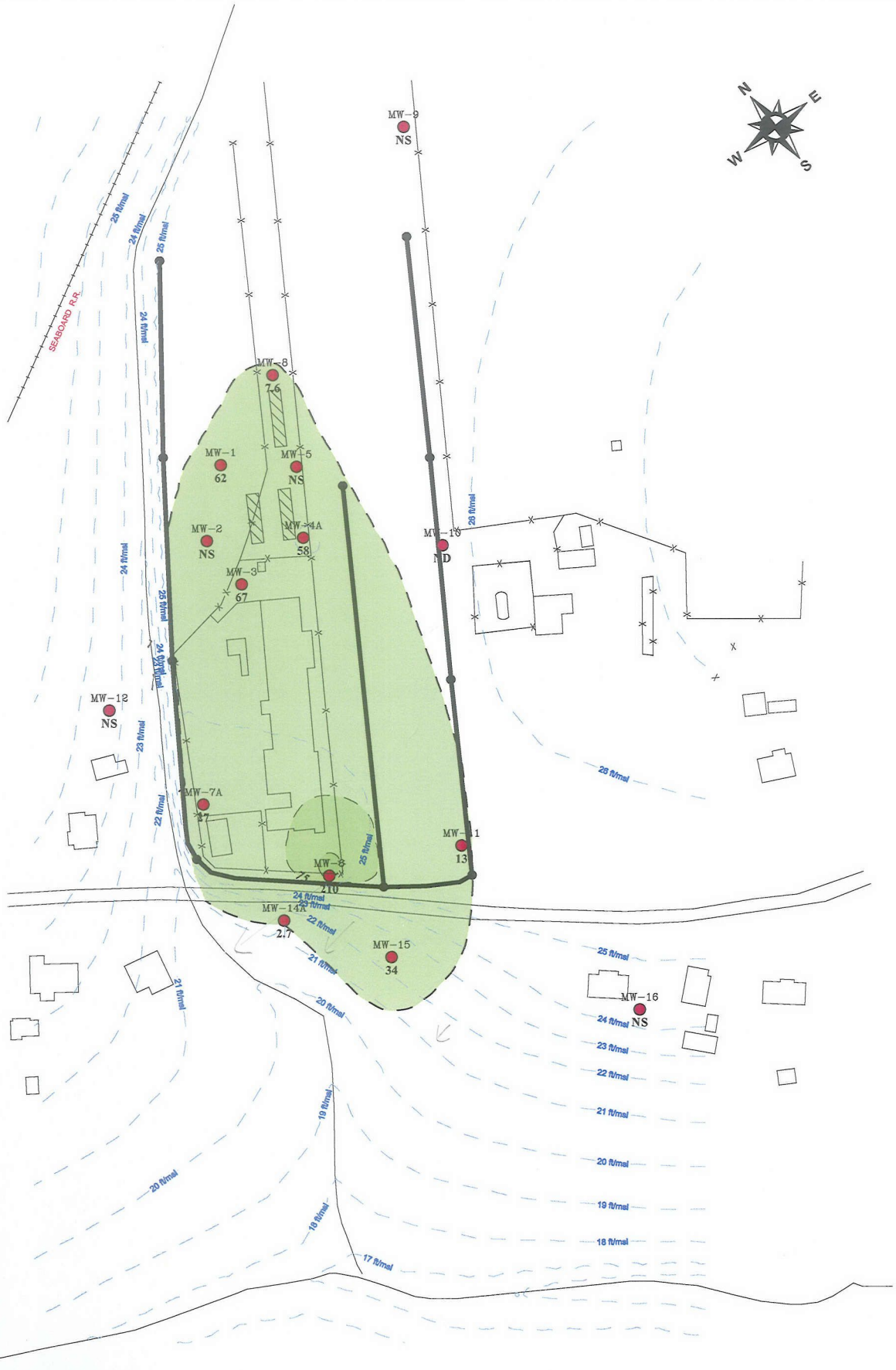
DRAWN BY:	APPROVED:	PROJECT NO.:
ND		
CHECKED:	DATE: 07/19/05	FIGURE NO.: 1
FILE NAME:	REVISION:	



CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Corporation - North Carolina
6324 Fairveiw Road
Charlotte, NC 28210

TITLE: Site Layout Map
Kentec Plant

DRAWN BY:	APPROVED:	PROJECT NO.:
ND		
CHECKED:	DATE: 06/27/05	FIGURE NO.:
FILE NAME:	REVISION:	2



1,4-Dioxane Concentration (ug/l)

1 | 75 | 150 | 300 | 500

Scale (feet)

0 | 200 | 400 | 600 | 800

TITLE:

Figure 3
Groundwater 1,4-Dioxane
Isoconcentration Contour Map (ug/l)
April 2005
Kentec Plant

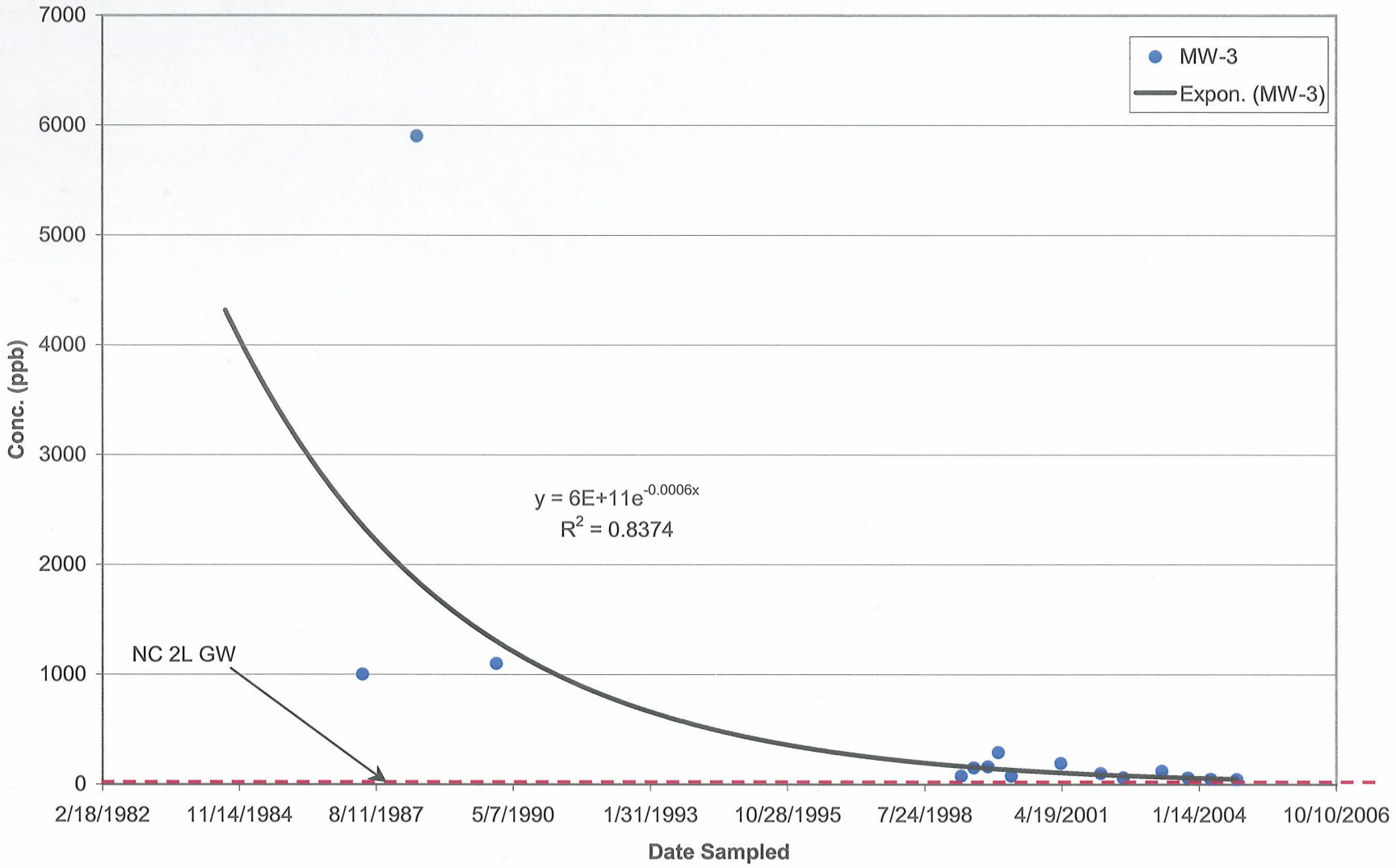


Figure 4. Concentration Trend - MW-3 (1,4 - Dioxane)

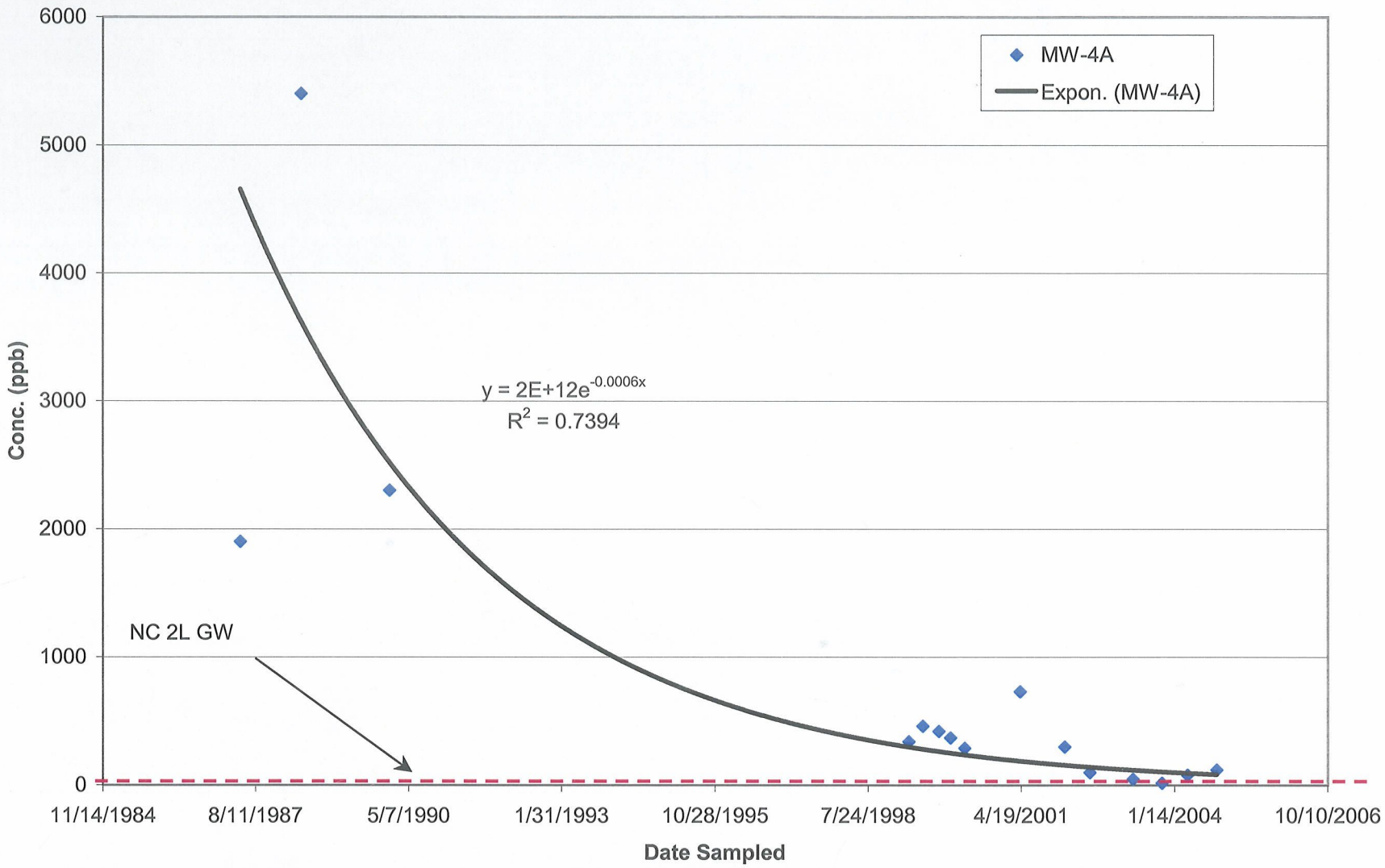


Figure 5. Concentration Trend - MW-4A (1,4 - Dioxane)

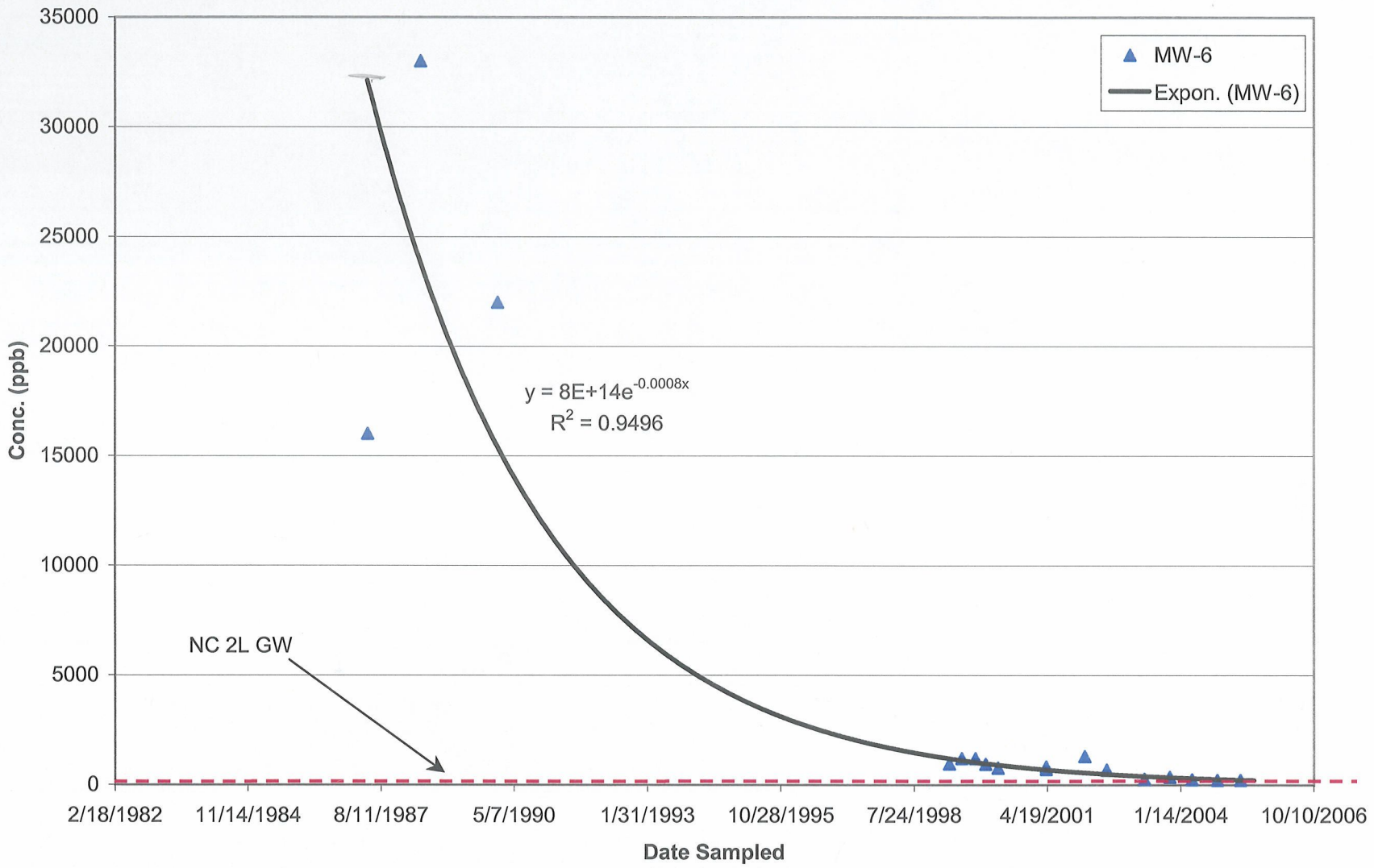


Figure 6. Concentration Trend - MW-6 (1,4 - Dioxane)

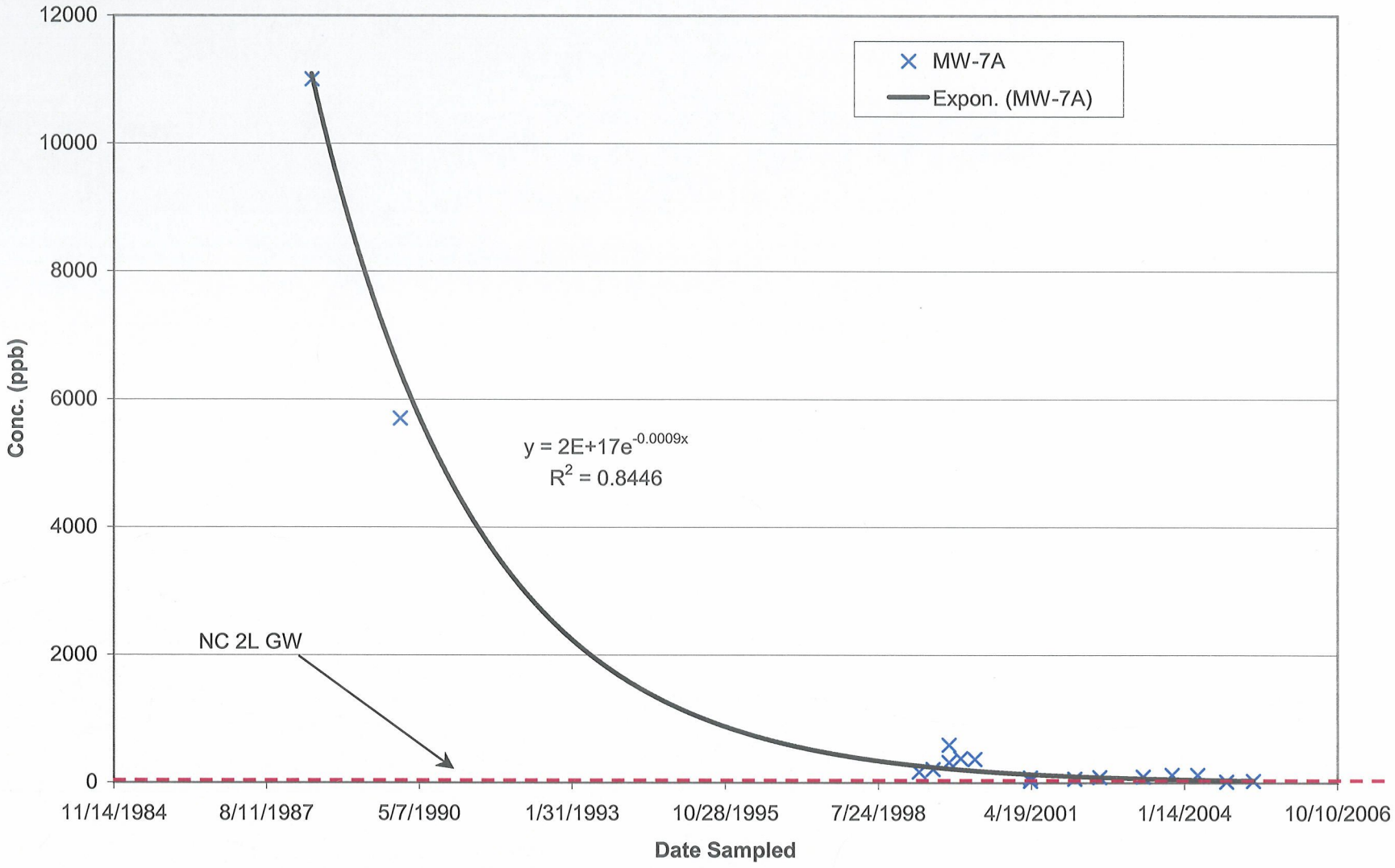


Figure 7. Concentration Trend - MW-7 (1,4 - Dioxane)

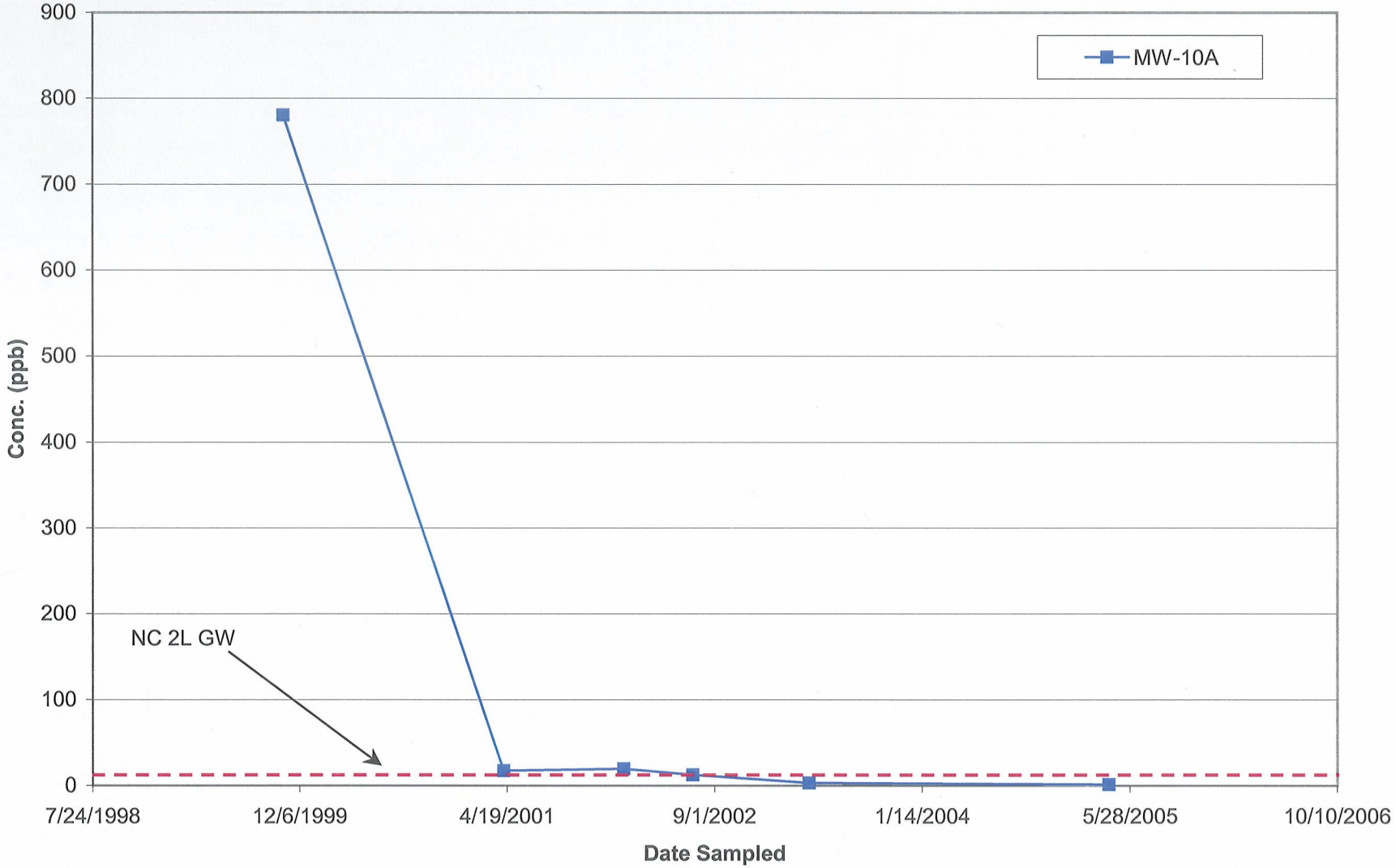


Figure 8. Concentration Trend - MW-10A (1,4 - Dioxane)

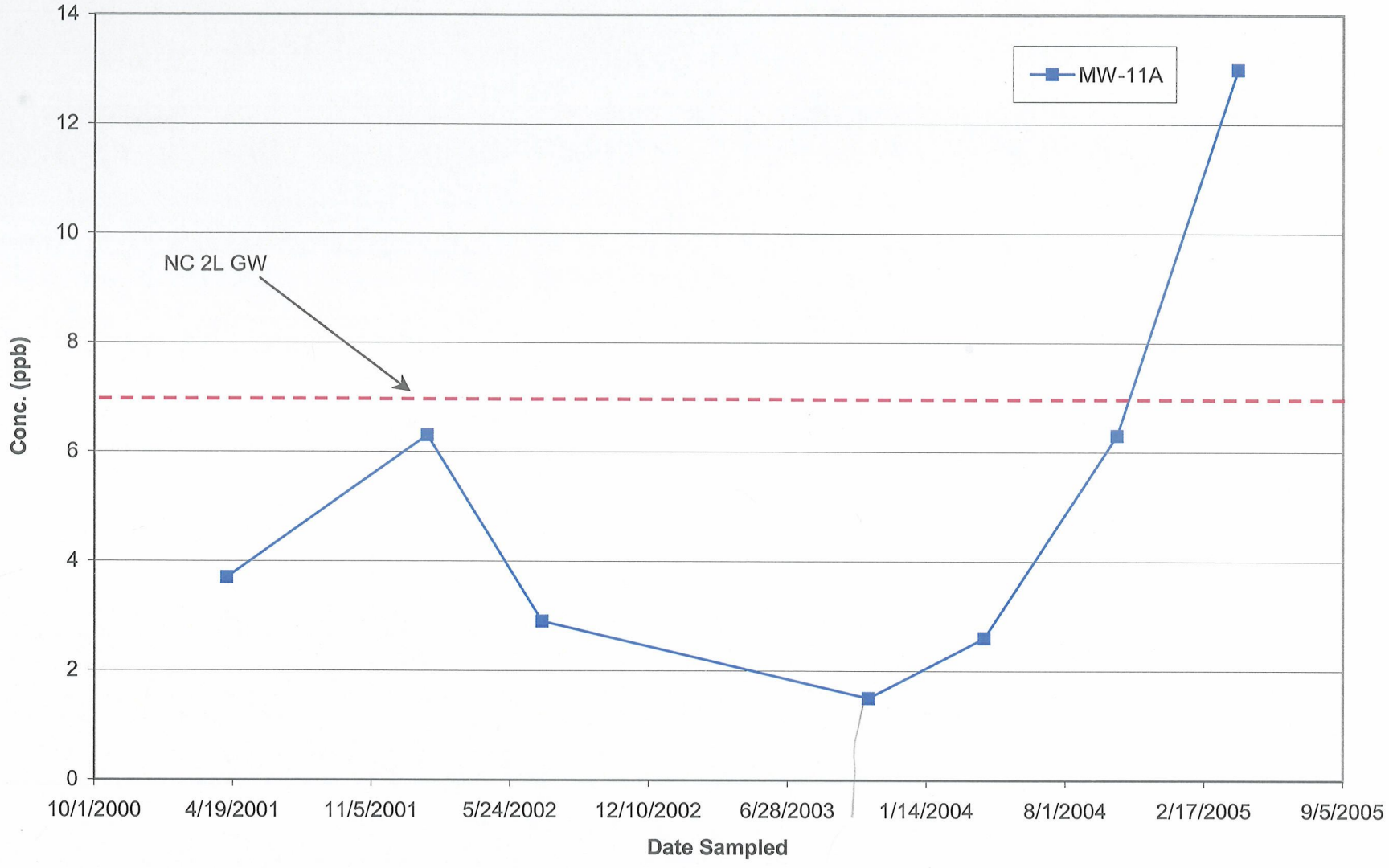


Figure 9. Concentration Trends - MW-11A (1,4-Dioxane)

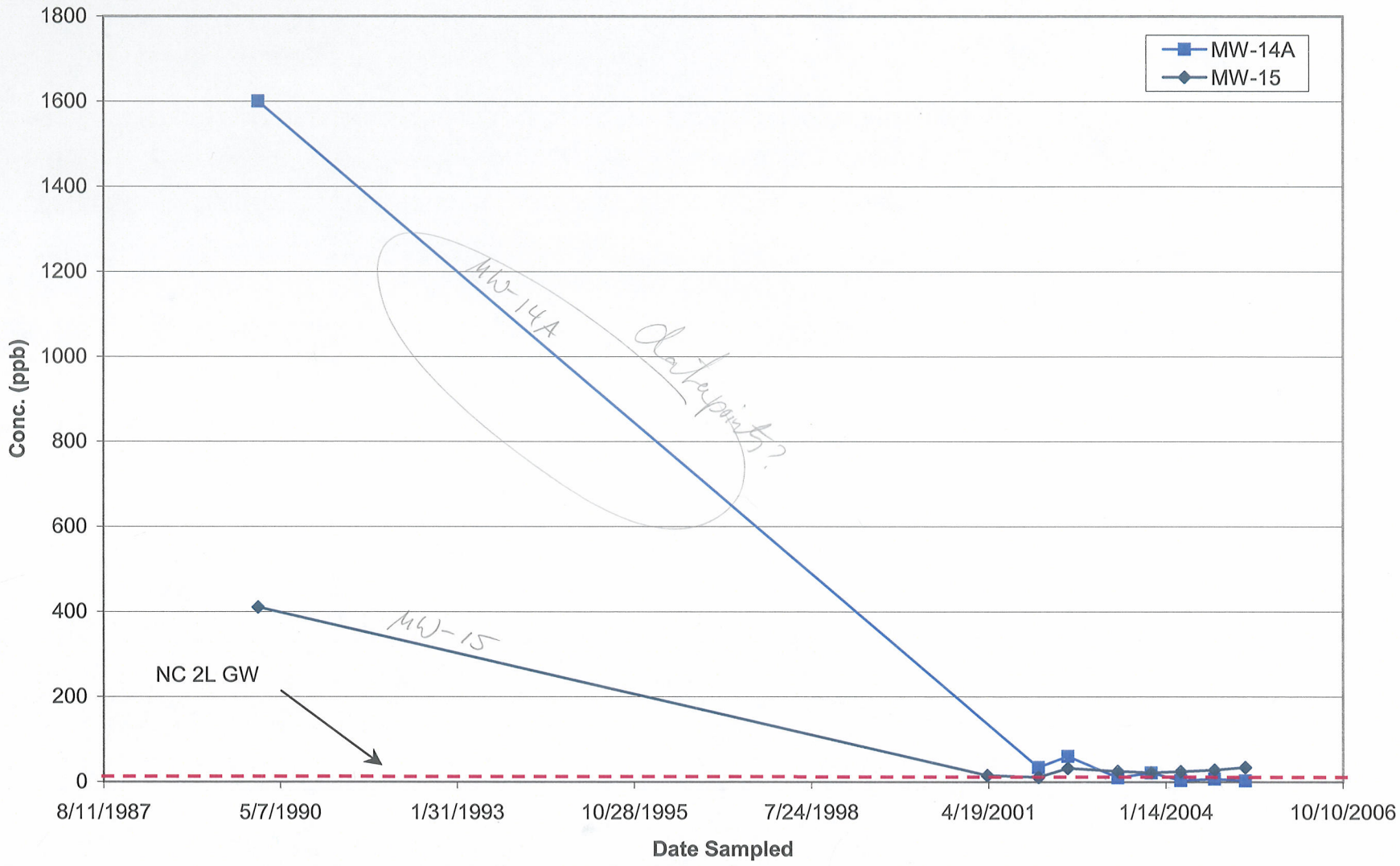


Figure 10. Concentration Trends - MW-14A and MW-15 (1,4 - Dioxane)

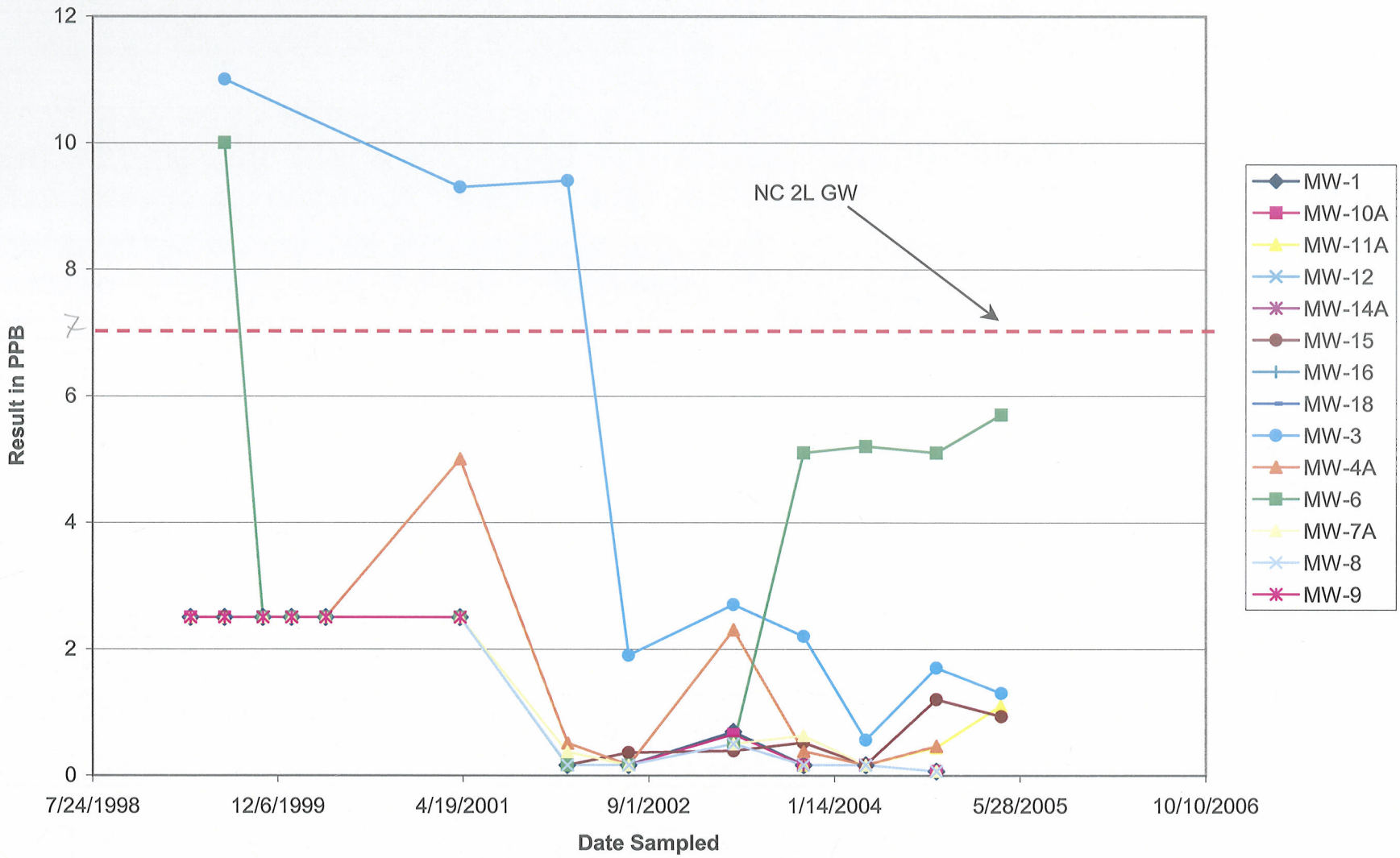


Figure 11. Concentration Trends - All Wells (1,1 - Dichloroethene)

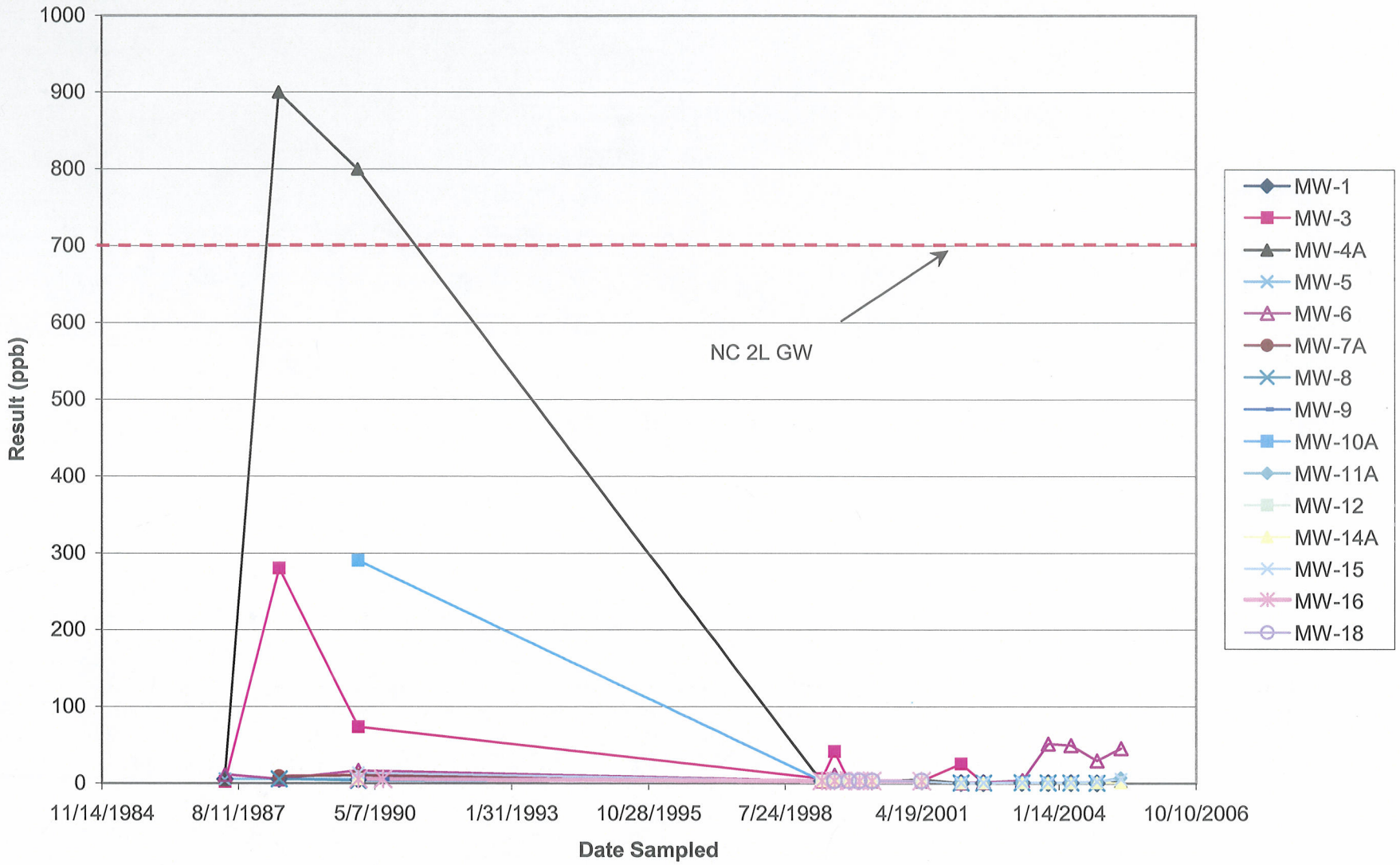
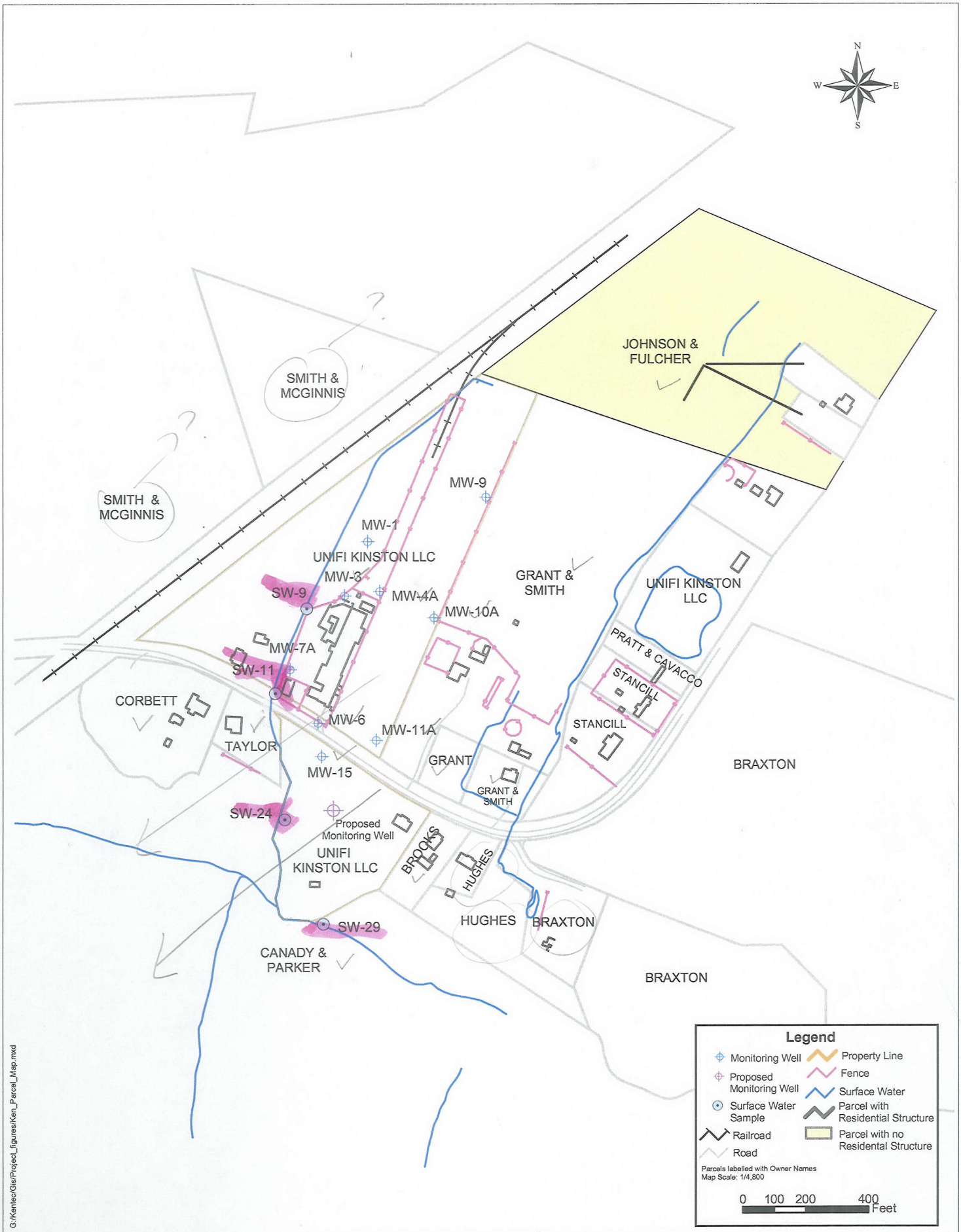


Figure 12. Concentration Trends - All Wells (1,1 - Dichloroethane)

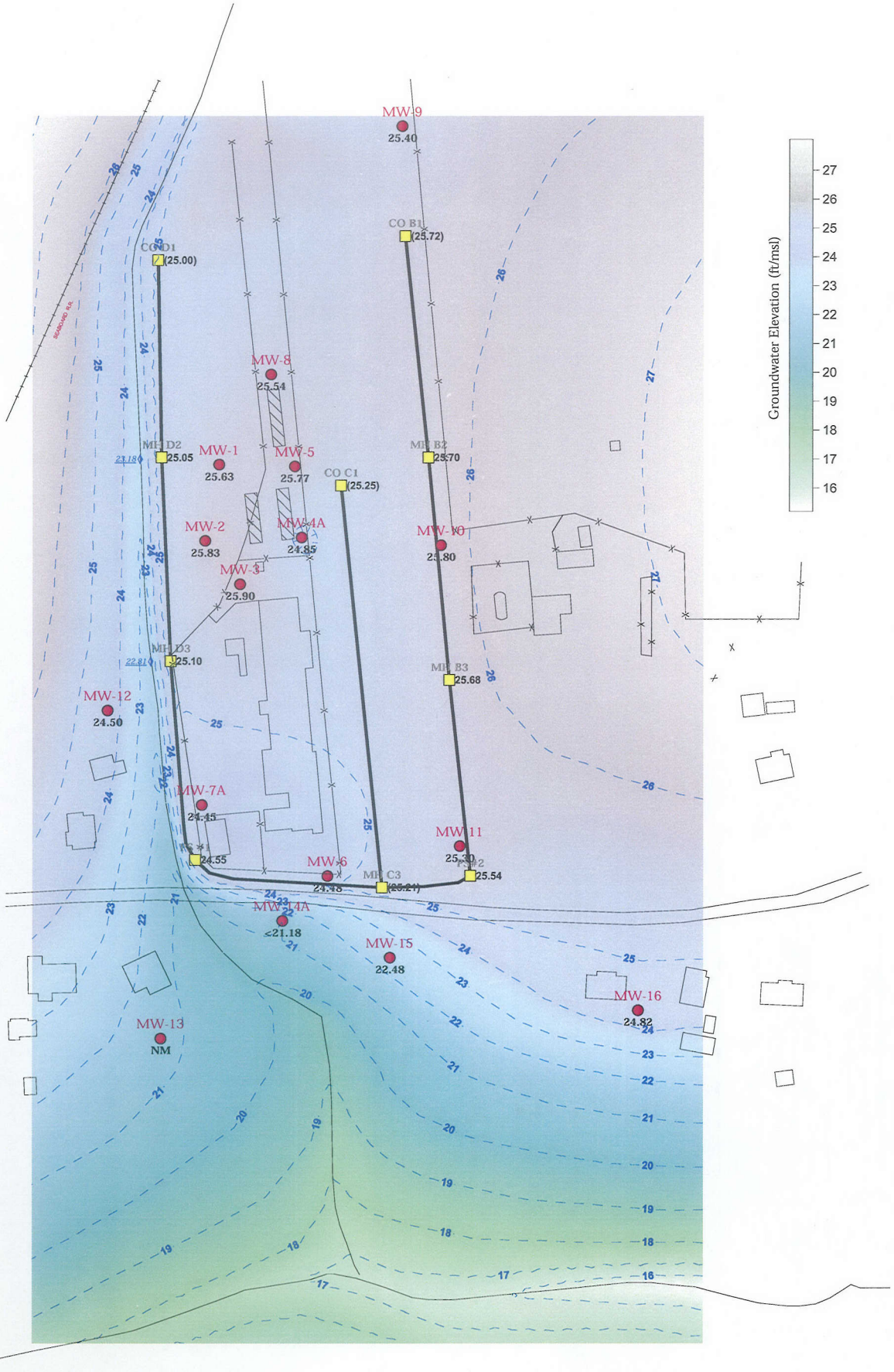


G:/Kentec/Gis/Project_figures/Ken_Parcel_Map.mxd

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Corporation - North Carolina
6324 Fairview Road
Charlotte, NC 28210

TITLE: Proposed Natural Attenuation Monitoring Locations
Kentec Plant

DRAWN BY:	APPROVED:	PROJECT NO.:
ND		
CHECKED:	DATE: 06/27/05	FIGURE NO.: 13
FILE NAME:	REVISION:	

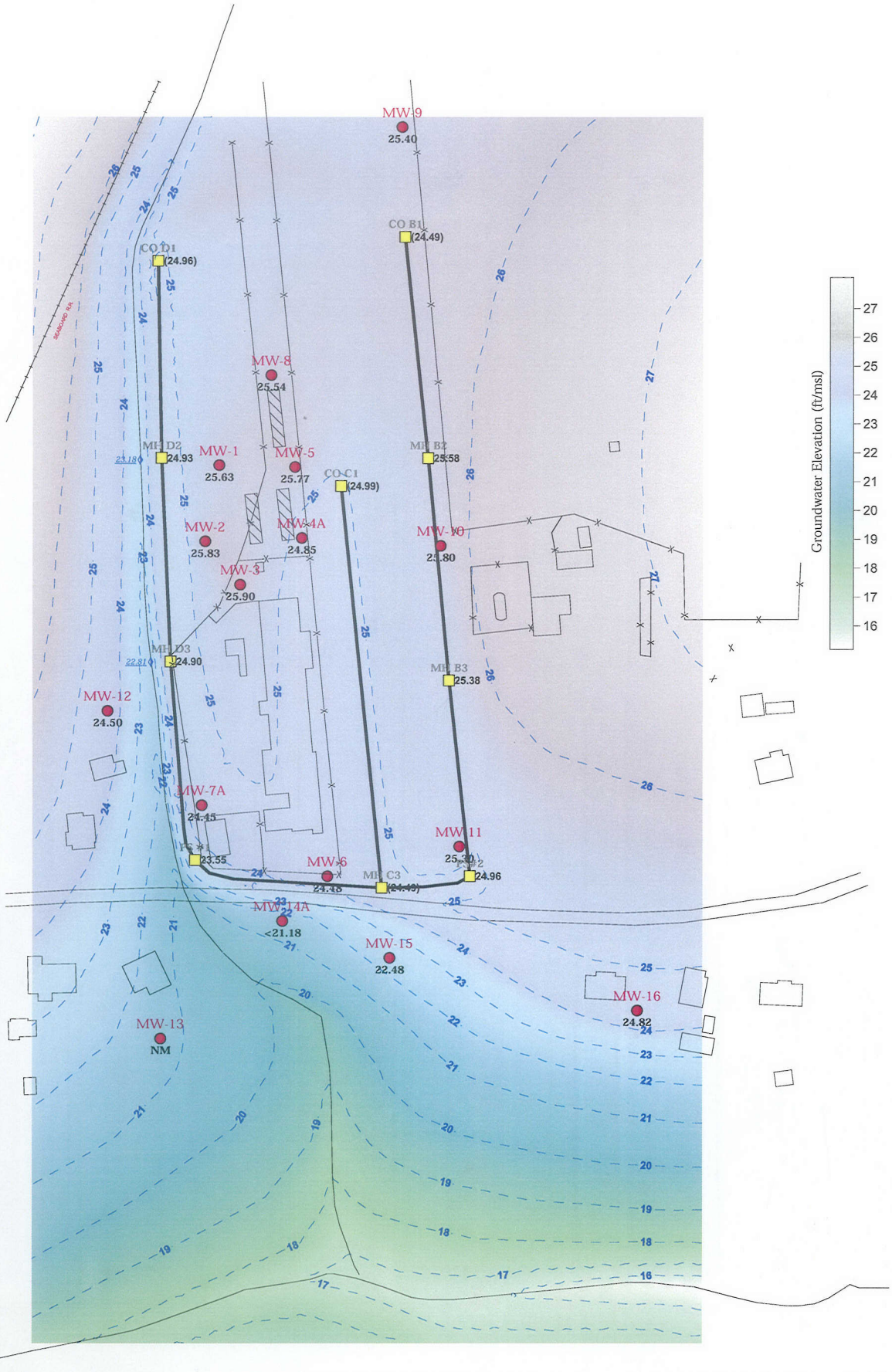


Approximate Scale (feet)

0 125 250 375 500

TITLE:

Figure 14
June 7, 2005 Potentiometric Surface Contour Map (ft/msl)
Capture Trench Non-Operational
Kentec Plant

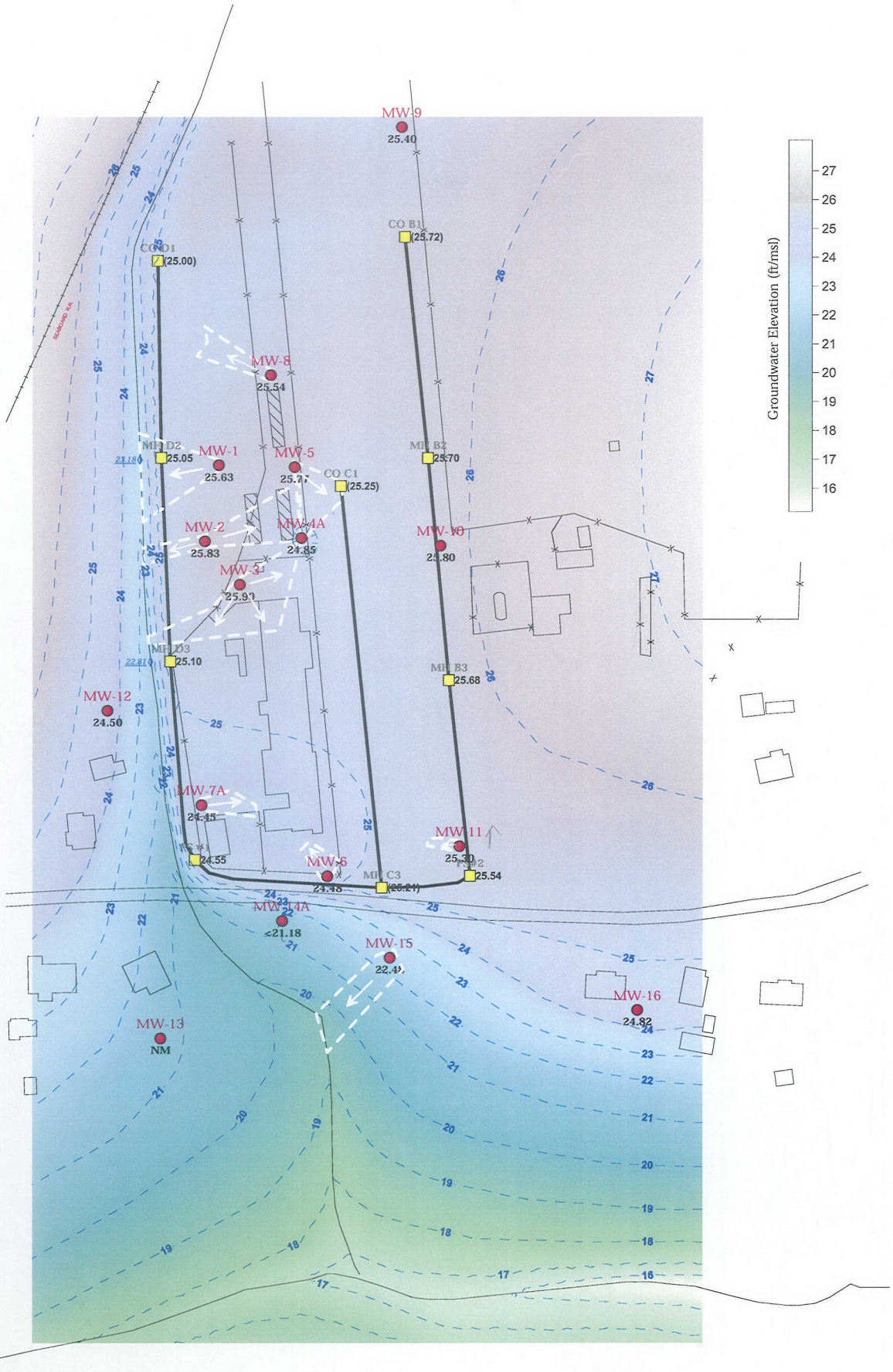


Approximate Scale (feet)

0 125 250 375 500

TITLE:

Figure 15
June 7, 2005 Potentiometric Surface Contour Map (ft/msl)
Capture Trench Operational (trench measurements 6/24/05)
Kentec Plant

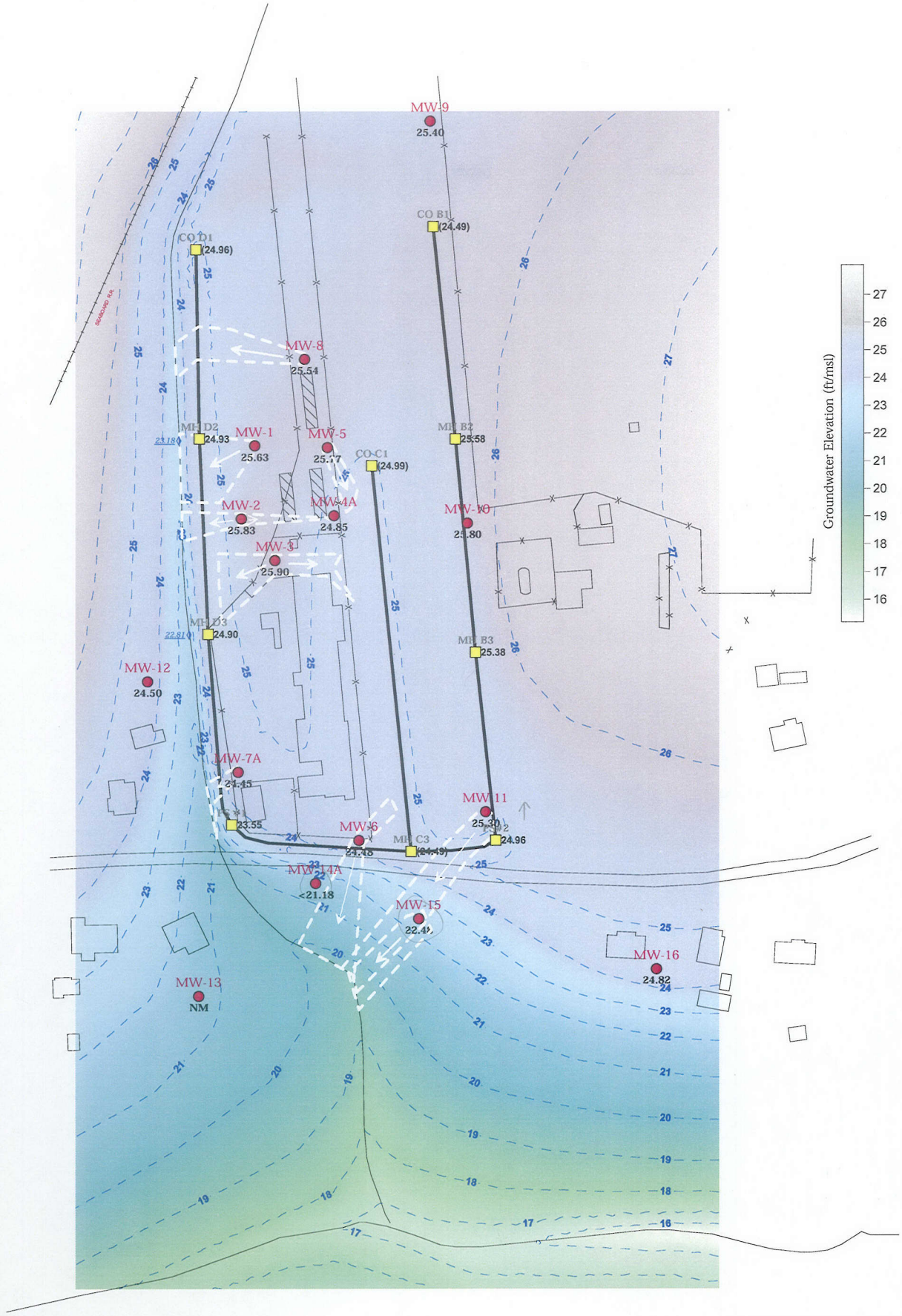


Approximate Scale (feet)

0 125 250 375 500

TITLE:

Figure 16
5-Year Forward Particle Pathline Results
Capture Trench Non-Operational
Kentec Plant



Approximate Scale (feet)

0 125 250 375 500

TITLE:

Figure 17
5-Year Forward Particle Pathline Results
Capture Trench Operational
Kentec Plant

APPENDIX C

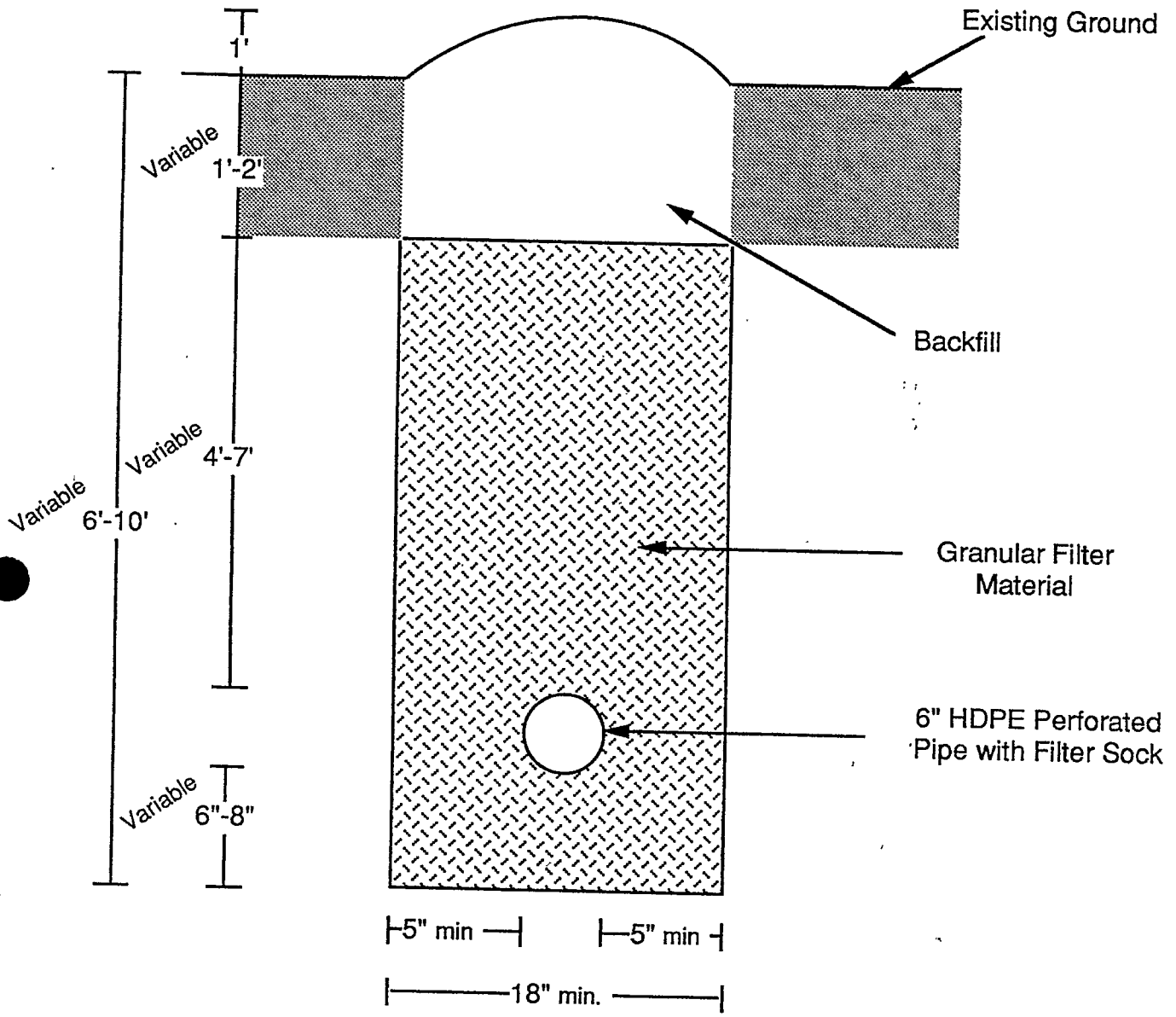


Figure ES-5
Typical Cross-Section of
Groundwater Interceptor Trench

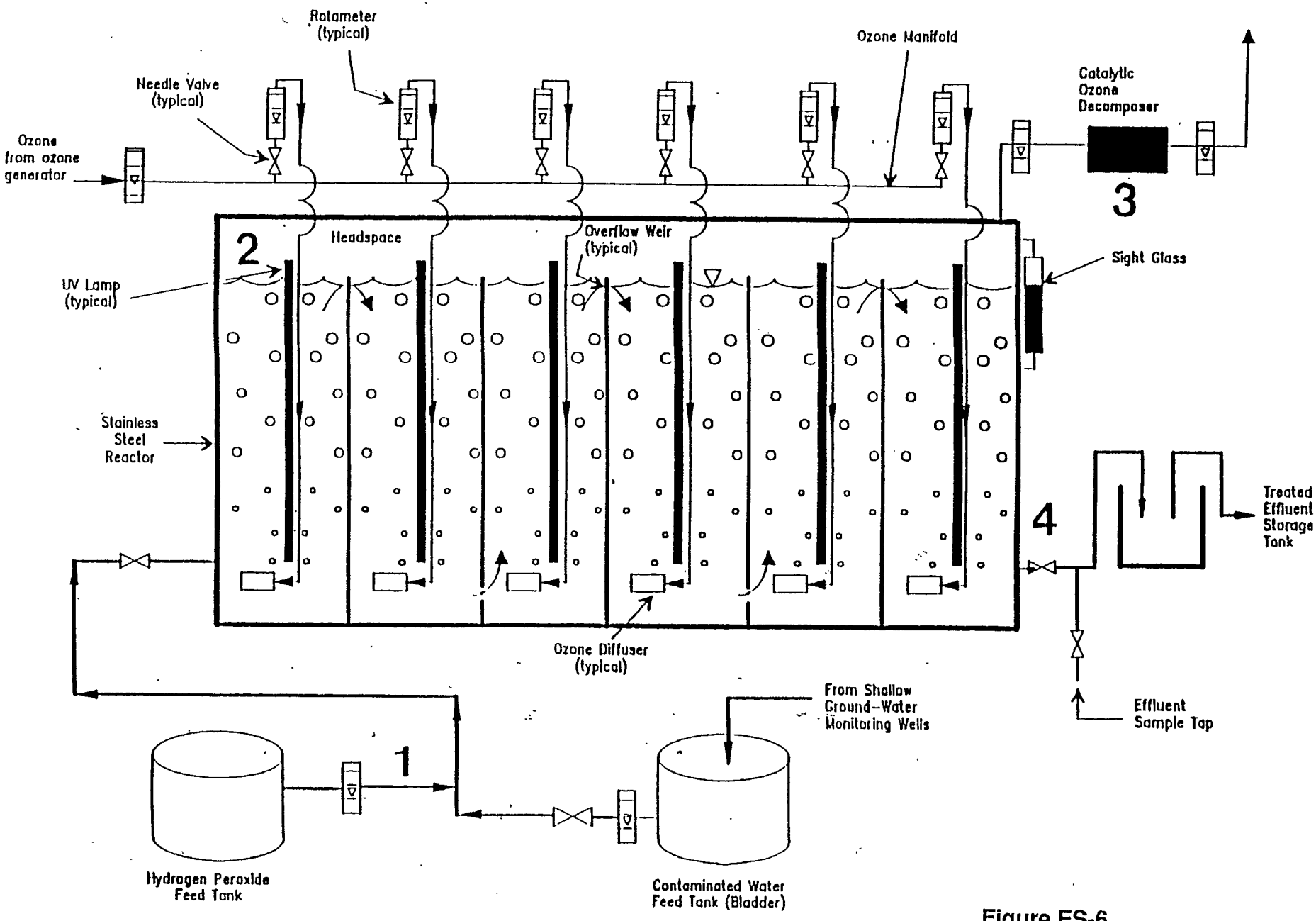
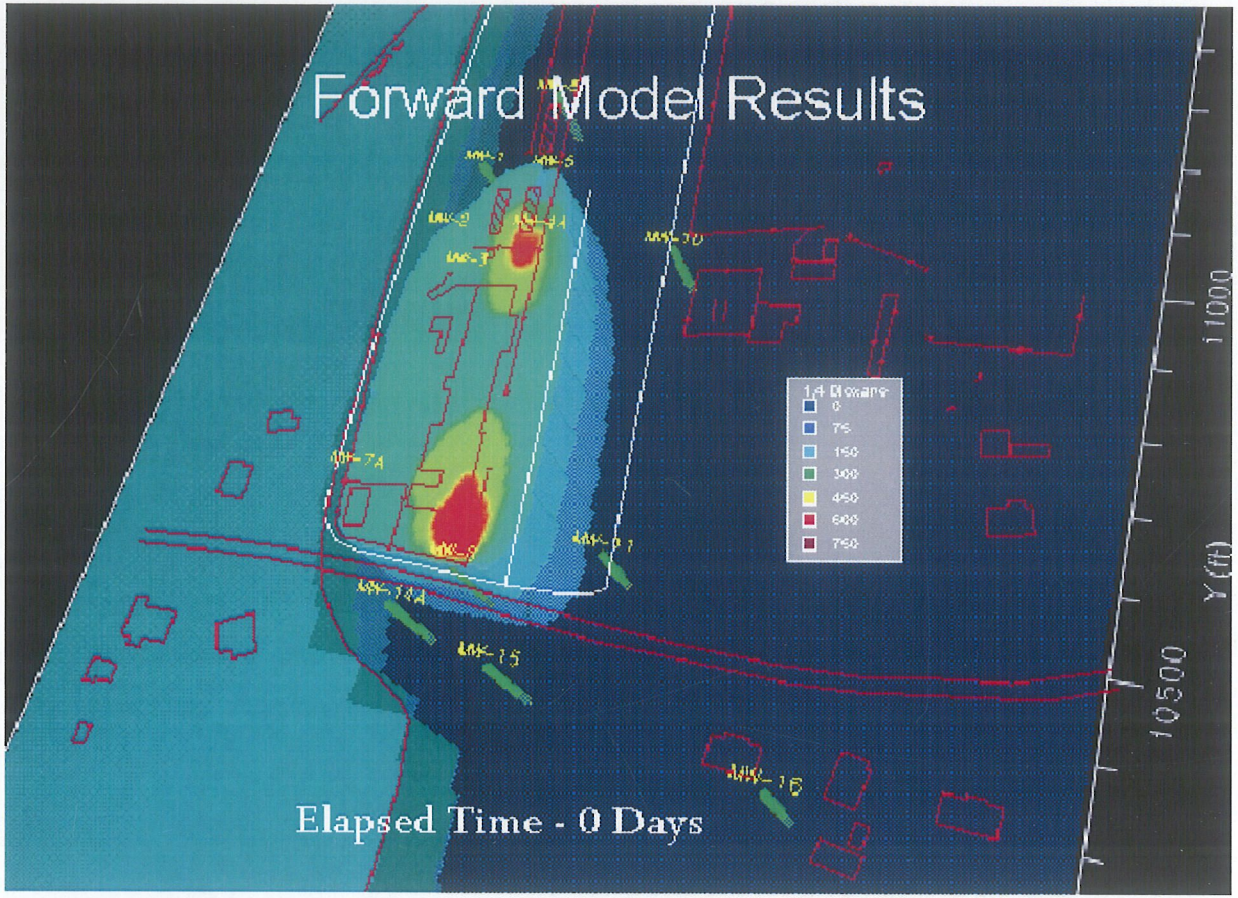
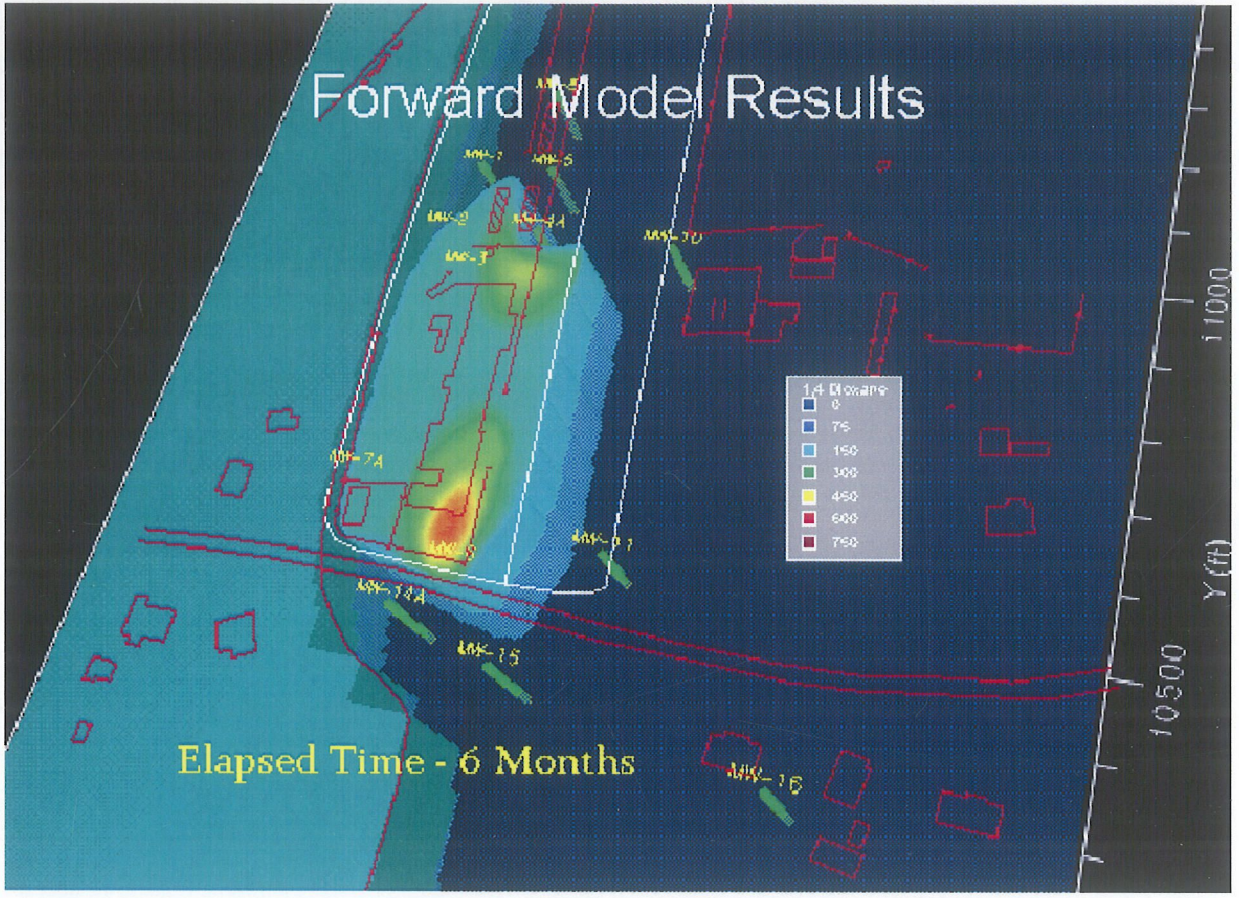
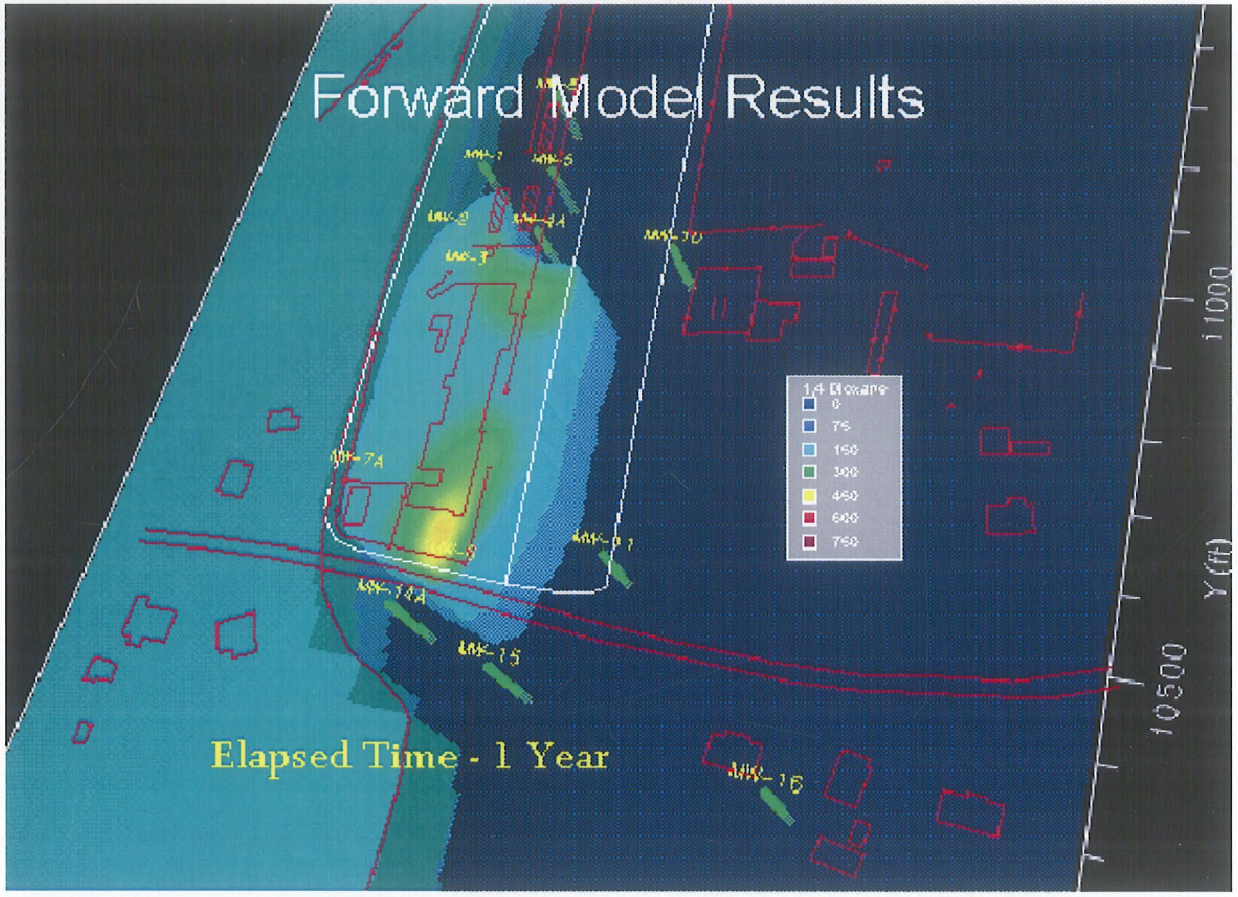


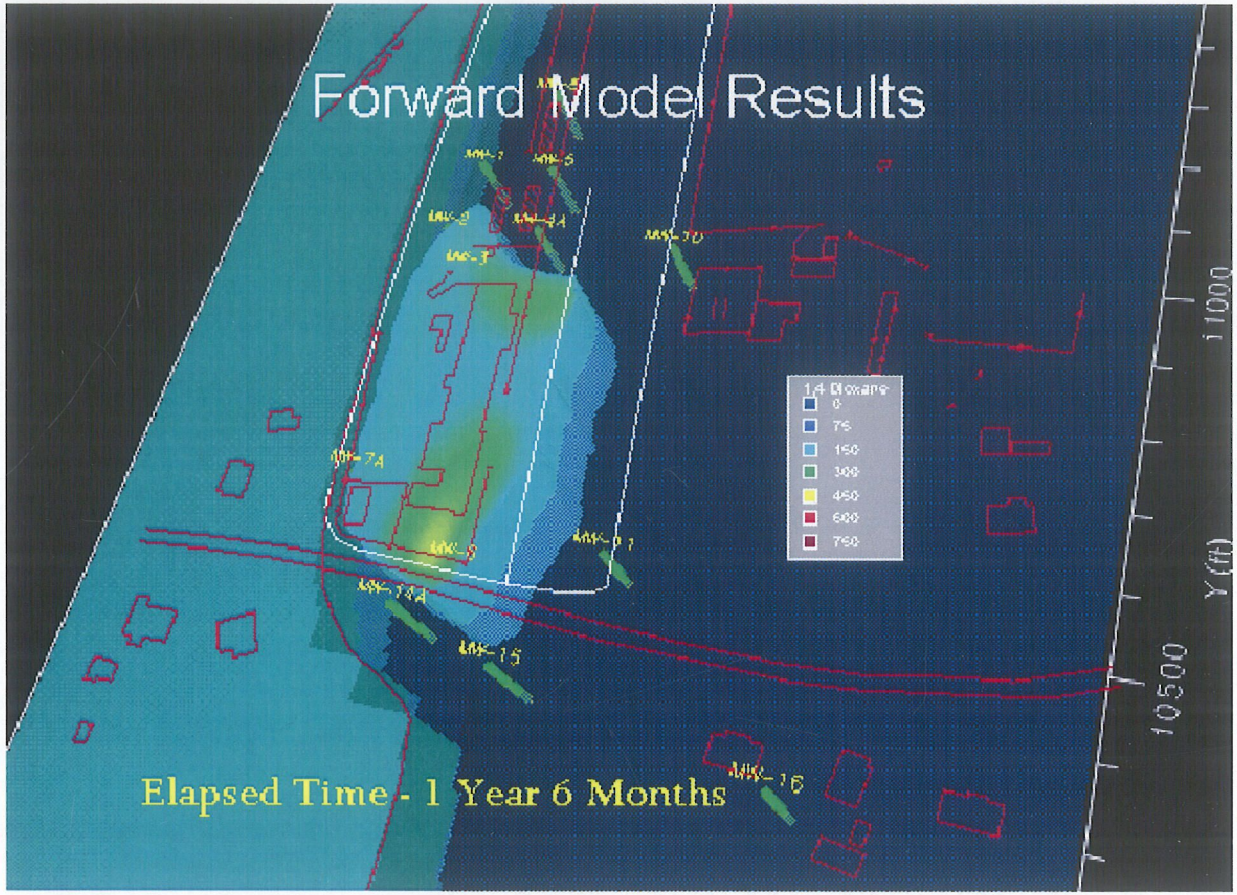
Figure ES-6
Chemical Oxidation System

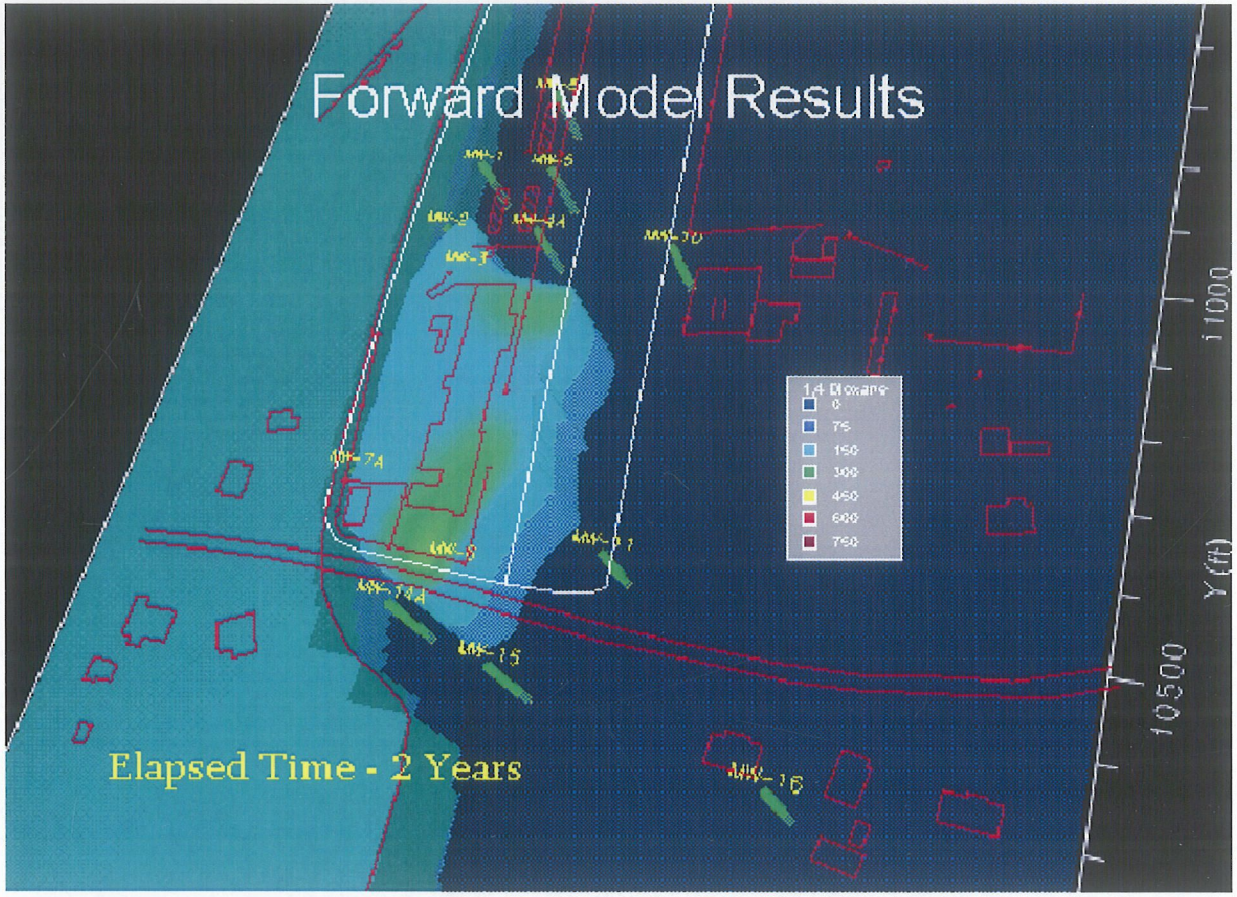
APPENDIX D

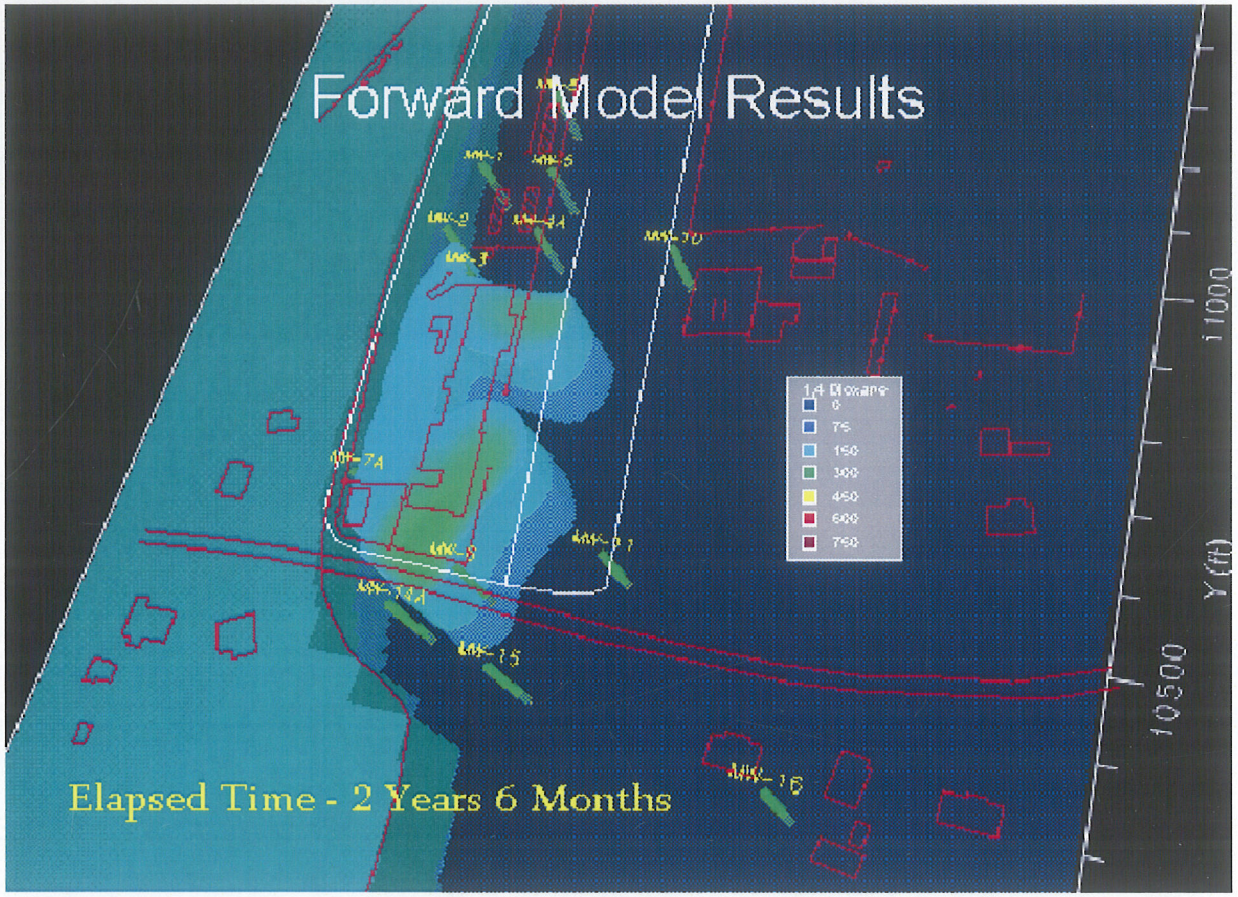

Forward Model Results
Elapsed Time - 0 Days
1,4 Dioxane
0
75
150
300
450
600
750
11000
10500
Y (ft)

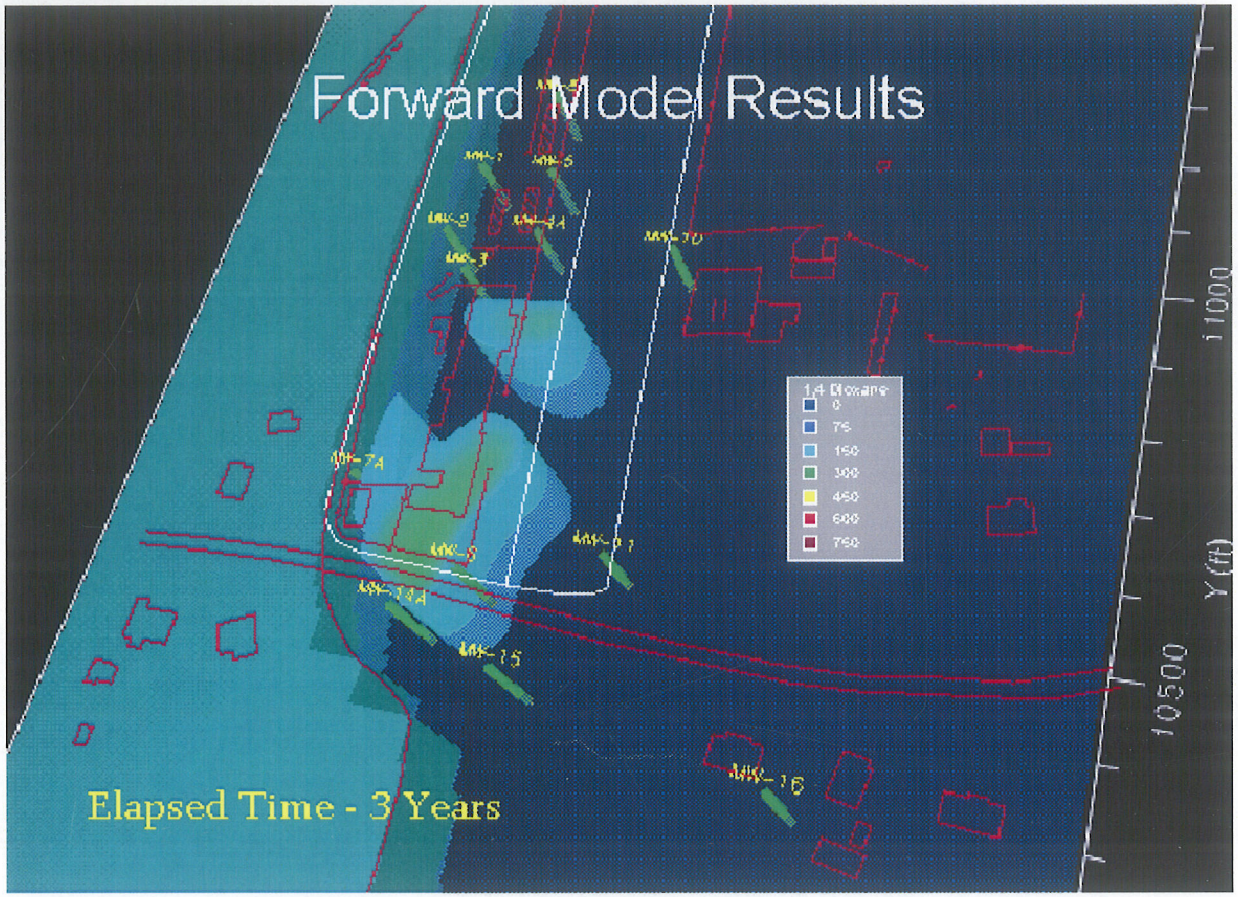

Forward Model Results
Elapsed Time - 6 Months
1,4 Dioxane
0
75
150
300
450
600
750
MW-7A
MW-14A
MW-15
MW-16
11000
10500
Y (ft)

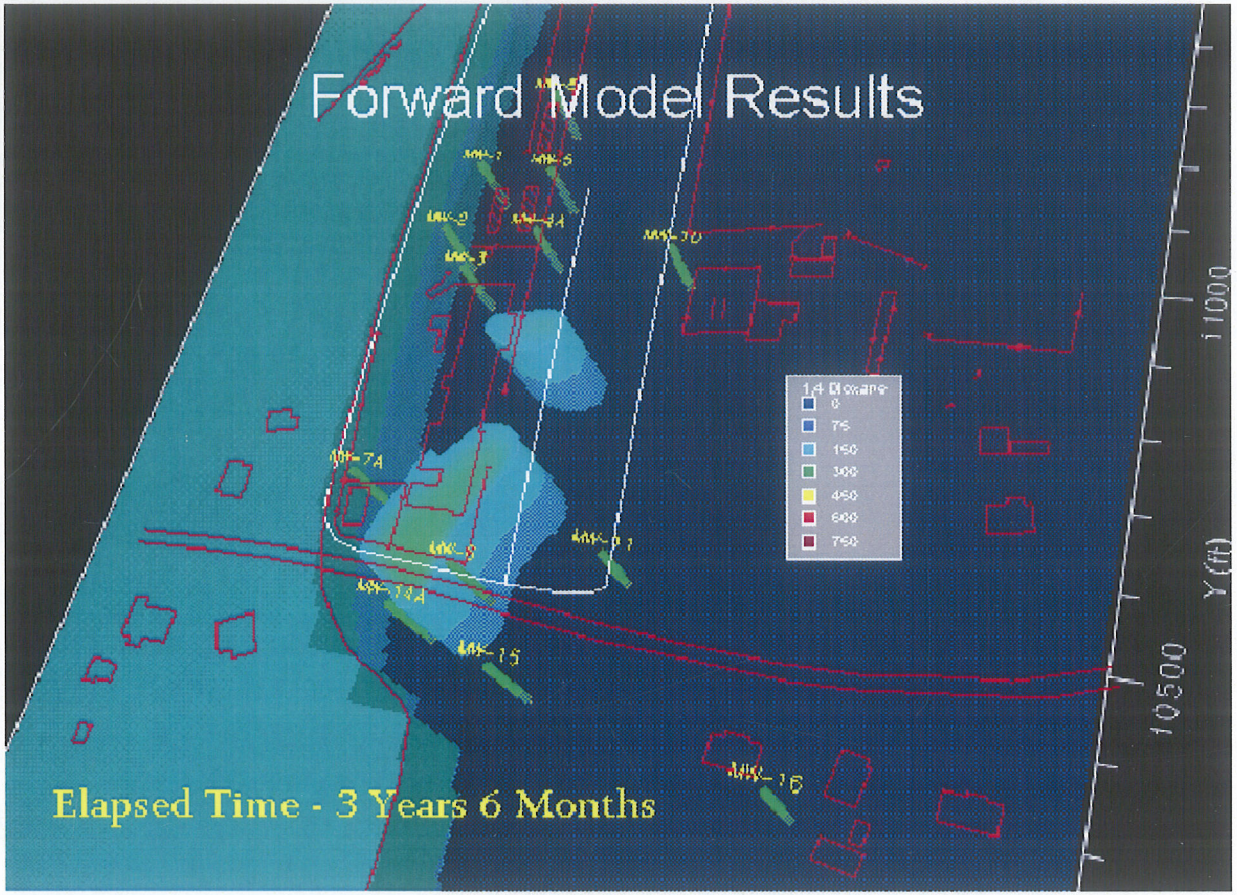

Forward Model Results
Elapsed Time - 1 Year
14 Drawdown
0
75
150
300
450
600
750
MW-7A
MW-14A
MW-15
MW-16
MW-11
MW-10
11000
10500
Y (ft)

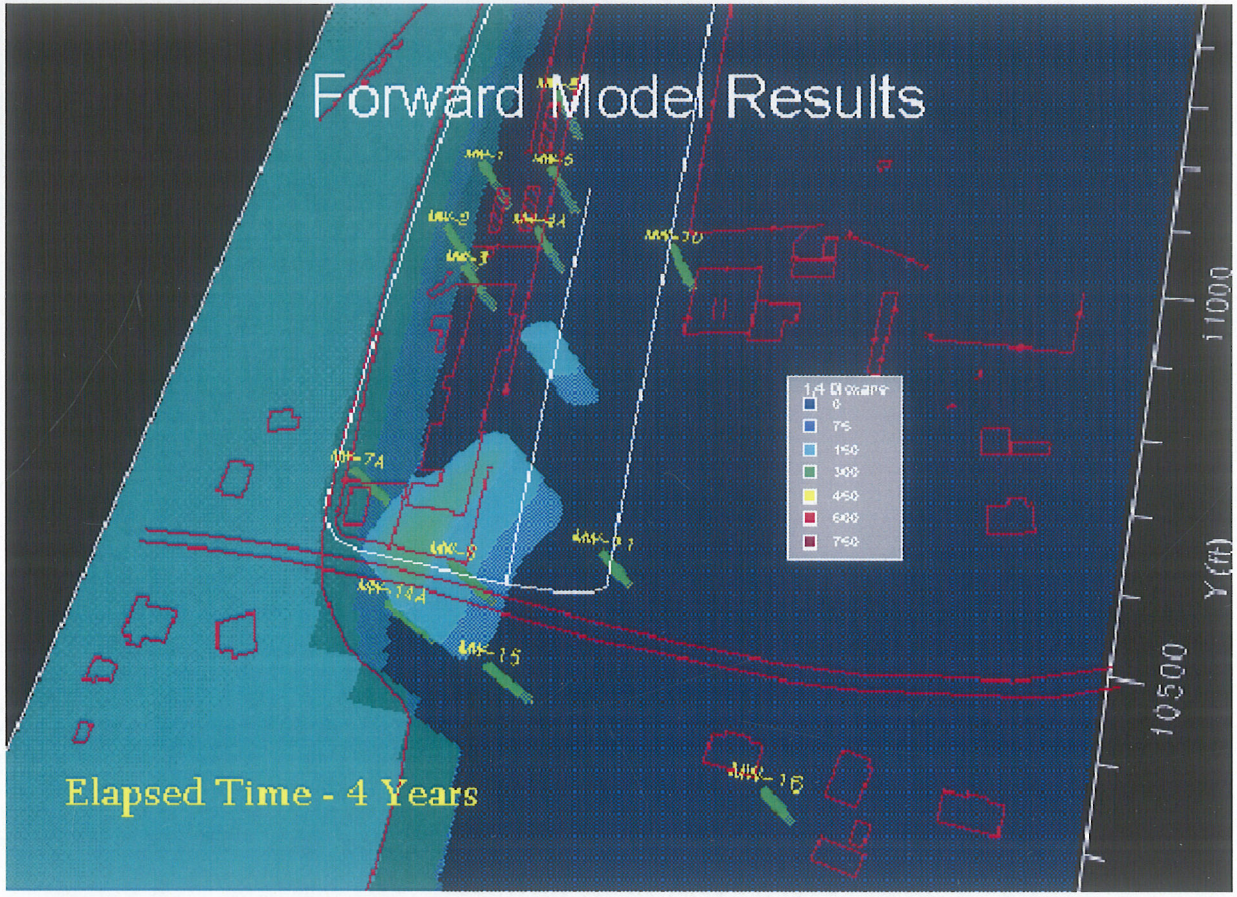

Forward Model Results
Elapsed Time - 1 Year 6 Months
1,4 Dioxane
0
75
150
300
450
600
750
MW-1
MW-5
MW-2
MW-3A
MW-3
MW-3D
MW-7A
MW-9
MW-11
MW-14A
MW-15
MW-16
10500
11000
Y (ft)

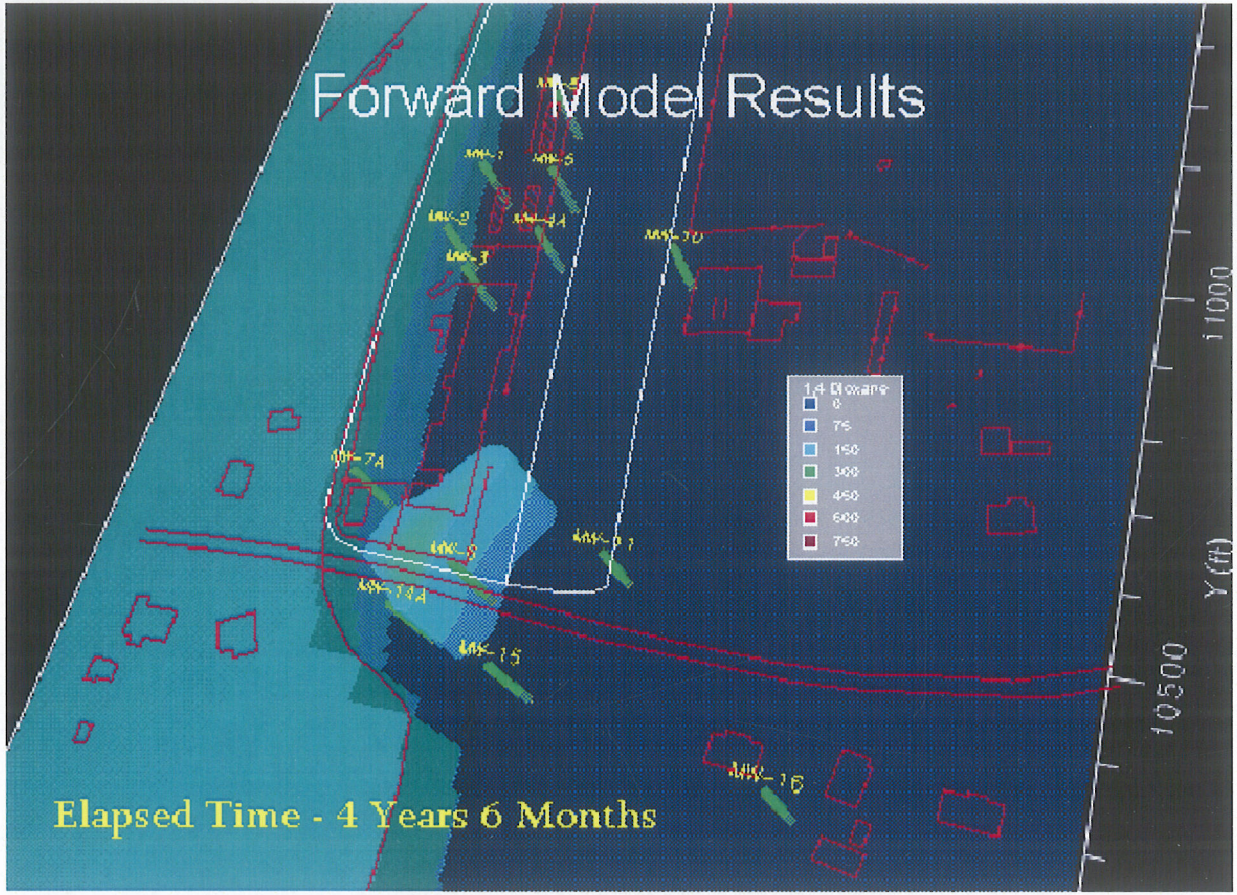

Forward Model Results
Elapsed Time - 2 Years
1,4 Dioxane
0
75
150
300
450
600
750
MW-7A
MW-9
MW-14A
MW-15
MW-16
MW-11
MW-10
MW-4A
MW-5
MW-3
MW-2
MW-1
11000
10500
Y (ft)

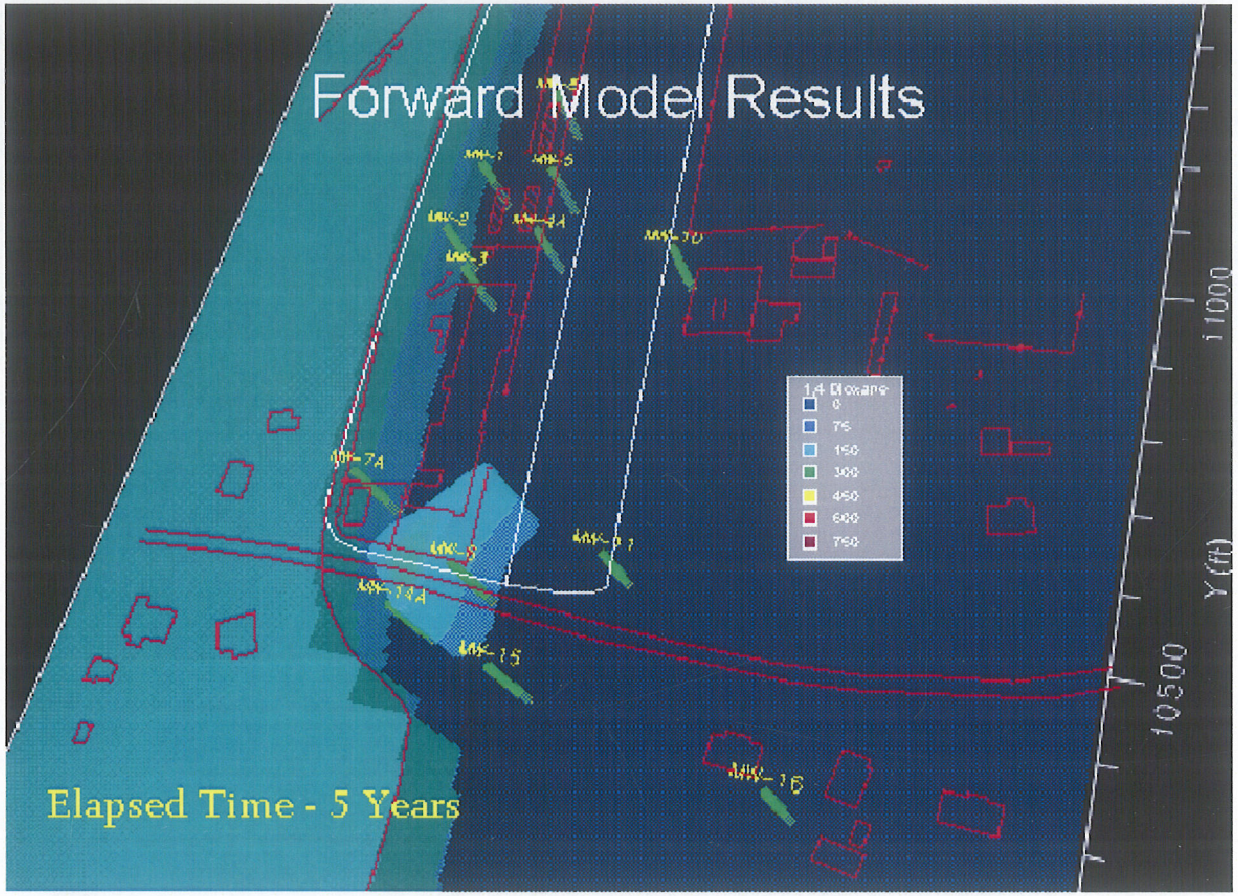

Forward Model Results
Elapsed Time - 2 Years 6 Months
1/4 Drawdowns
0
75
150
300
450
600
750
11000
10500
Y (ft)

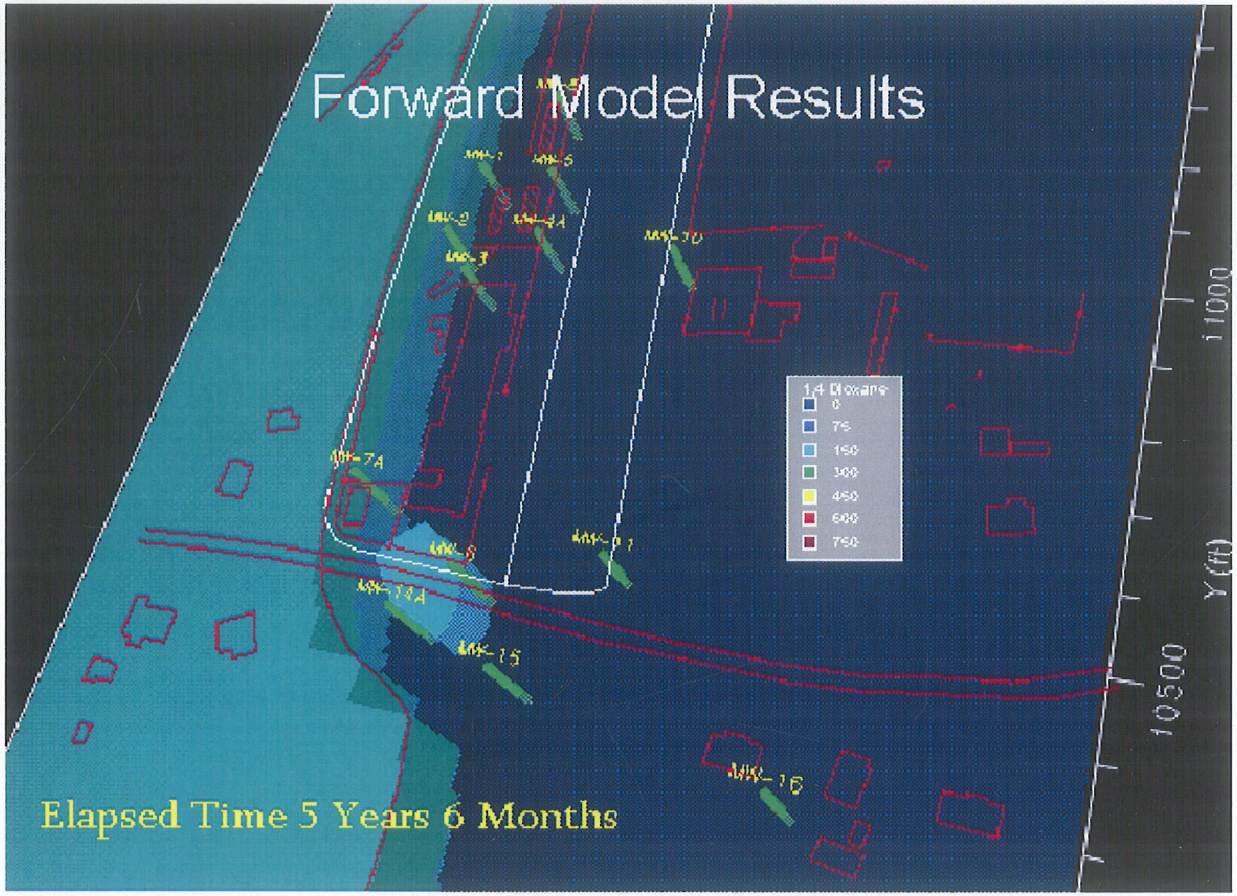

Forward Model Results
Elapsed Time - 3 Years
1,4 Dioxane
0
75
150
300
450
600
750
MW-7A
MW-9
MW-11
MW-14A
MW-15
MW-16
MW-10
11000
10500
Y (ft)

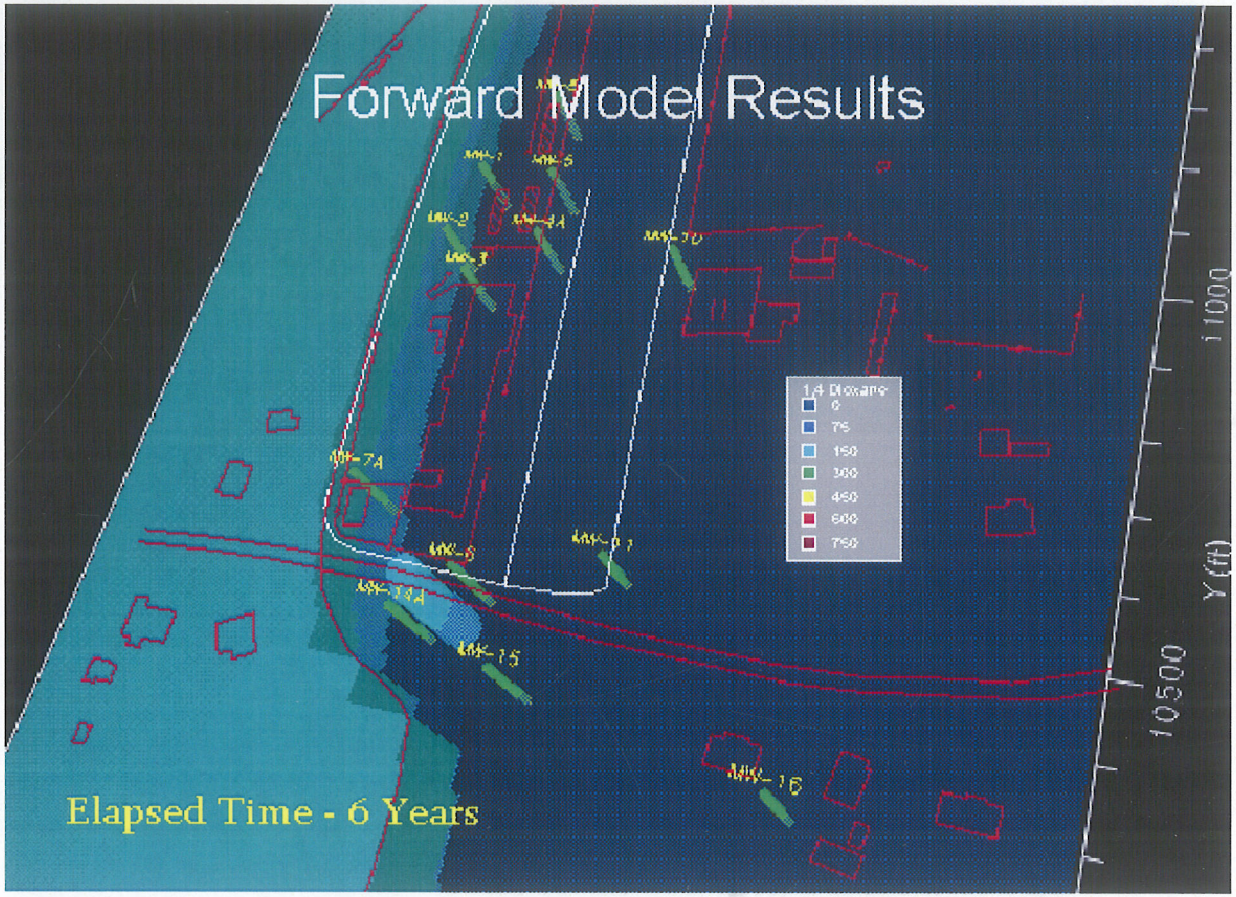

Forward Model Results
Elapsed Time - 3 Years 6 Months
14 Drawdrs
0
75
150
300
450
600
750
11000
10500
Y (ft)

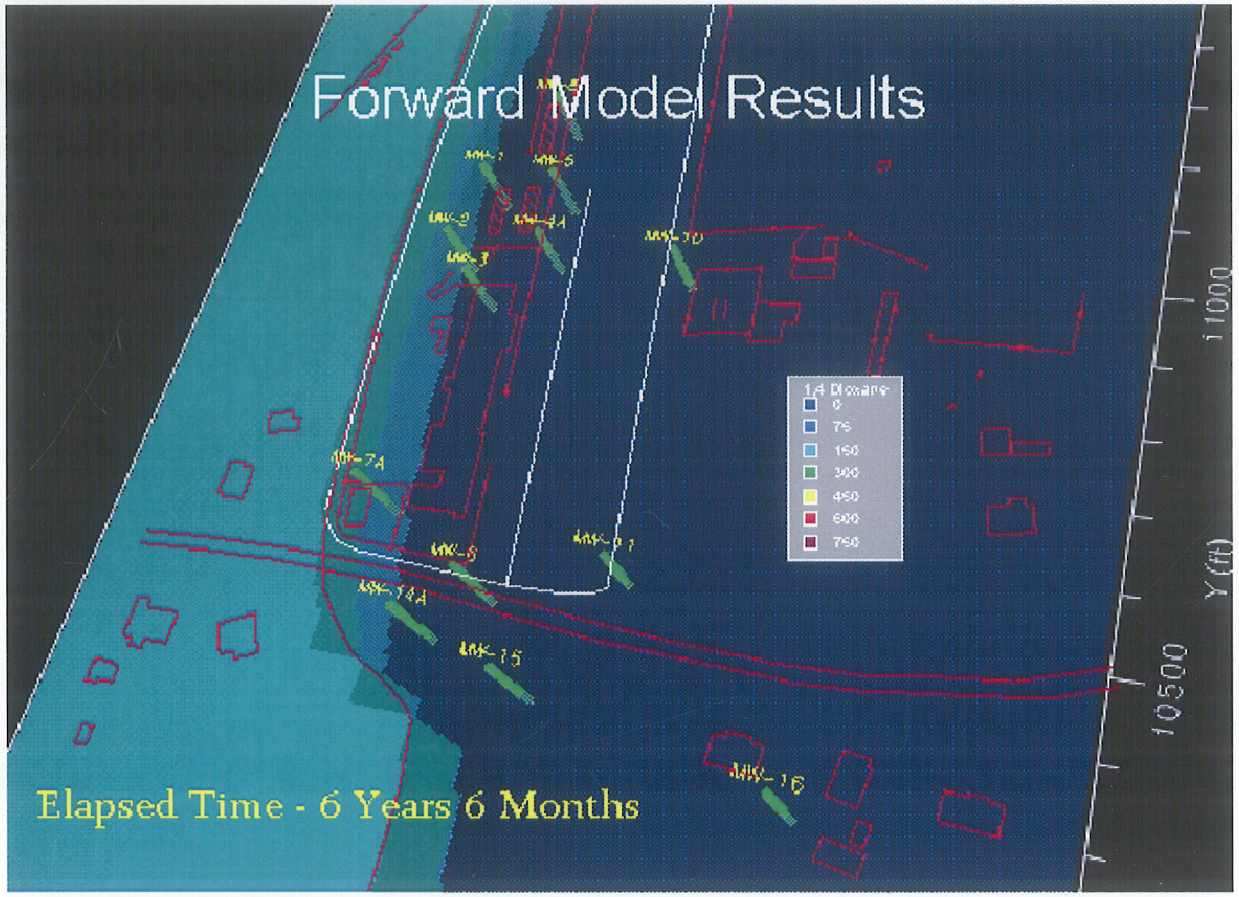

Forward Model Results
Elapsed Time - 4 Years
1,4 Dioxane
0
75
150
300
450
600
750
MW-7A
MW-9
MW-14A
MW-15
MW-16
11000
10500
Y (ft)


Forward Model Results
Elapsed Time - 4 Years 6 Months
1,4 Dioxane
0
75
150
300
450
600
750
11000
10500
Y (ft)


Forward Model Results
Elapsed Time - 5 Years
1,4 Dioxane
0
75
150
300
450
600
750
MW-7A
MW-9
MW-11A
MW-15
MW-16
MW-7D
11000
10500
Y (ft)


Forward Model Results
Elapsed Time 5 Years 6 Months
1,4 Dioxane
0
75
150
300
450
600
750
11000
10500
Y (ft)


Forward Model Results
Elapsed Time - 6 Years
1,4 Dioxane
0
75
150
300
450
600
750
MW-7A
MW-8
MW-14A
MW-15
MW-16
MW-7D
MW-9
MW-9A
MW-2
MW-3
10500
11000
Y (ft)


Forward Model Results
Elapsed Time - 6 Years 6 Months
1A Dissolve
0
75
150
300
450
600
750
11000
10500
Y (ft)

APPENDIX E

6324 Fairview Road
Charlotte, NC 28210
Tel. (704) 362-6630
Fax (704) 362-6636

DuPont Engineering

XXXXX X, XXXX

XXXXXXXXXXXX
XXXXXXXXXXXX
XXXXXXXXXXXX

RE: Notification of Corrective Action Modification
Former DuPont Kentec Facility
Kinston, NC

Dear XXXXXXXX,

This letter is to notify you that E.I. DuPont has requested modification of corrective action activities at its former DuPont Kentec facilty. This modification is requested according to subchapter 2L.0106(l) of the North Carolina Administrative Code. The modification request is corrective action by monitored natural attenuation based on attenuation of contaminants in the groundwater at the site. In support of this modification a hydraulic groundwater barrier installed during prior corrective action will remain at the site and prevent migration of contaminants through groundwater offsite.

This notification is provided to you because you have been identified as a contiguous landowner to the former DuPont Kentec facility, a government official, or other interested party identified by NCDENR. If you have any questions, require additional information, or feel you have received this notification in error, please contact me at (704) XXX-XXXX.

Sincerely,

Andrew Alcazar
Environmental Engineer
DuPont Corporate Remediation Group