300405-0605010007

CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

CH2MHILL

ER/WM-165/04
December 9, 2004

Ms. Margaret L. Marks, Director
Miamisburg Closure Project
U. S. Department of Energy
1075 Mound Road
Miamisburg, OH 45342

ATTENTION: Paul Lucas

SUBJECT: Contract No. DE-AC24-03OH20152
Statement of Work Requirement 055 - Regulator Reports
**PRS 414 PRS PACKAGE ADDENDUM 1, PRD**

Dear Ms. Marks:

Paul Lucas of your office has authorized the release of the following document for public review:

- PRS 414 PRS Package Addendum 1, Public Review Draft, December 2004

Public comment will be accepted through January 8, 2005.

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact me at 937-865-4203.

Sincerely,

David A. Rakel
CERCLA Lead

DAR/ms

Enclosures

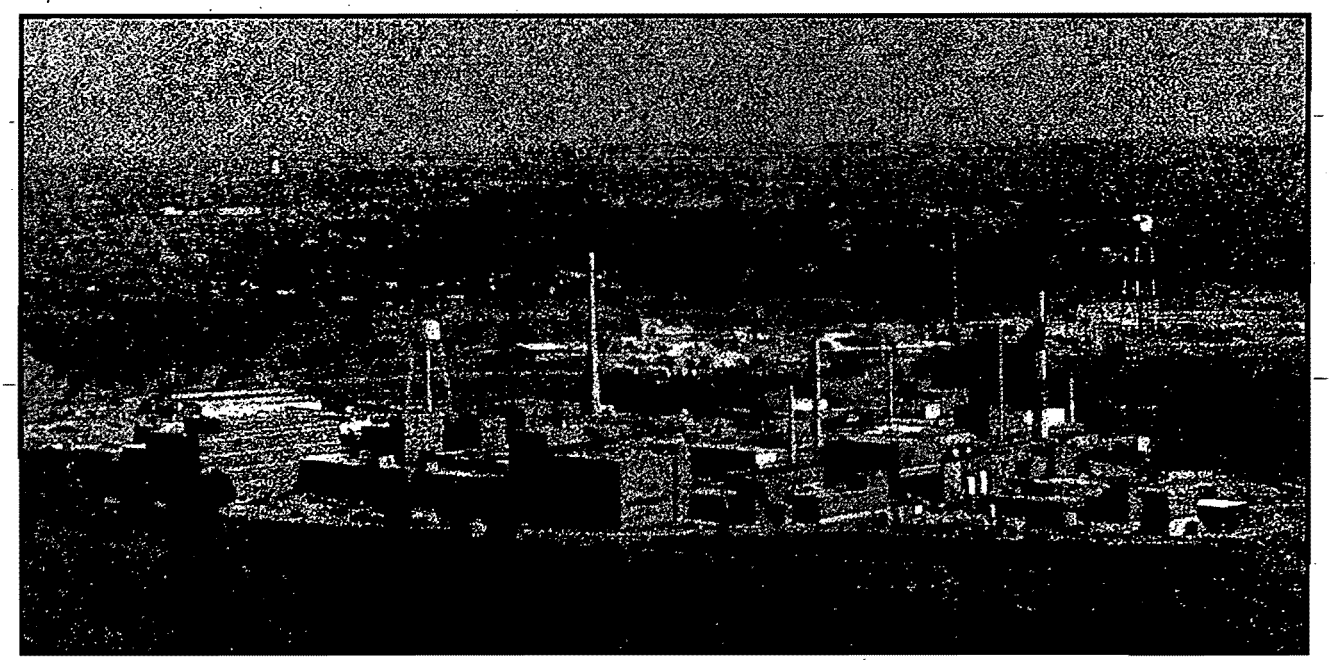
cc: Tim Fischer, USEPA, (1) w/attachments
Brian Nickel, OEPA, (4) w/attachments
Ruth Vandegrift, ODH, (1) w/attachments
Mary Wojciechowski, Tetra Tech, (1) w/attach
Frank Schmaltz, DOE/MCP, (1) w/attachments
Lisa Rawls, MCP, w/o attachments
Randy Tormey, DOE/OH, (1) w/attachments
Frank Bullock, MMCIC, (3) w/attachments
Public Reading Room, (4) w/attachments
Mark Gilliat, CH2M Hill, (1) w/attachs
Dave Rakel, CH2M Hill, (1) w/attachs
Val Darnell, CH2M Hill, w/o attachments
ER Records, CH2M Hill, (1) w/attachs
DCC (1) w/attachments
John Lehew, CH2M Hill, w/o attachments
file

300405-0605010007

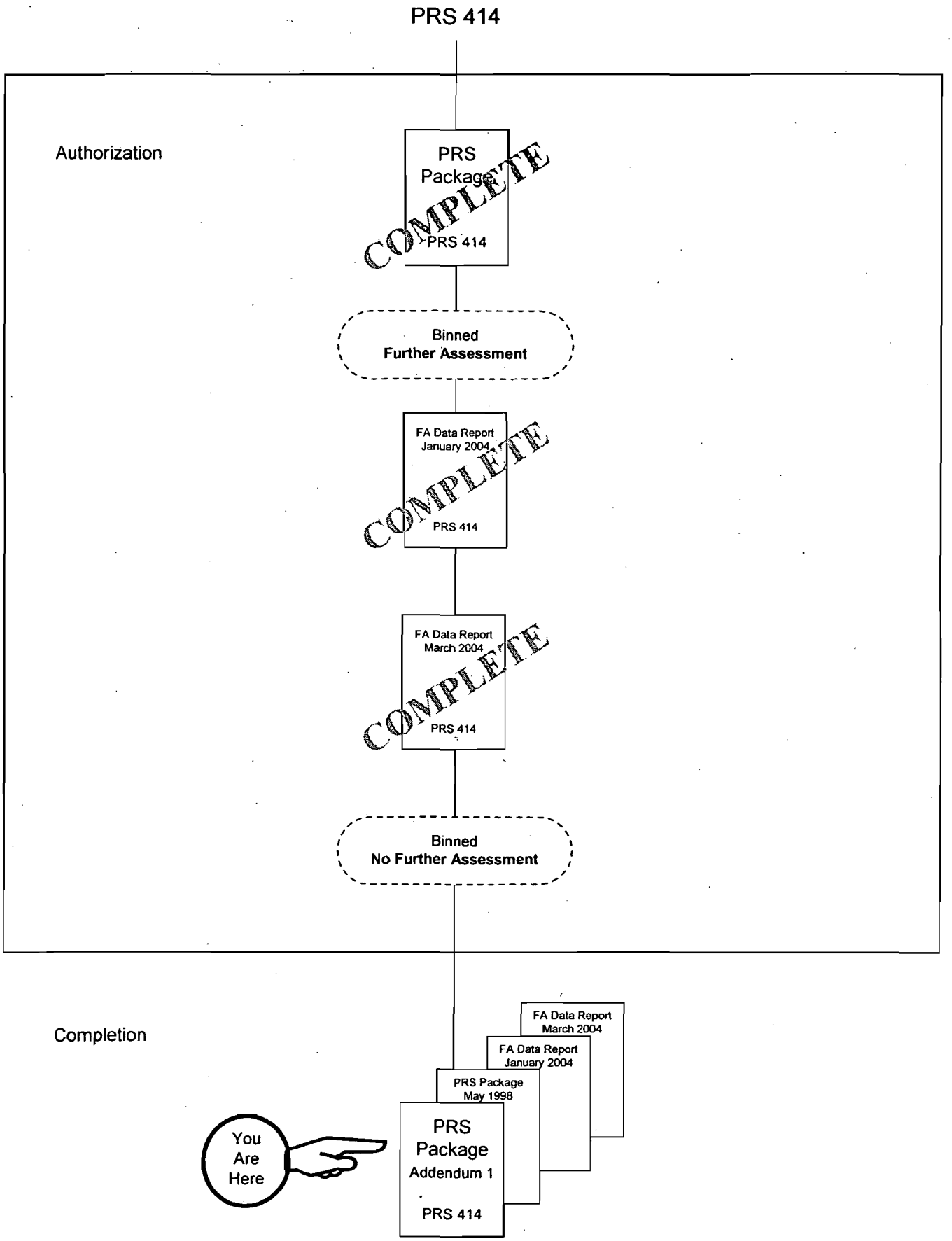
Environmental
Restoration
Program

# Miamisburg Closure Project
## Potential Release Site Package
# PRS 414
# Addendum 1

Public Review Draft
December 2004



# PRS 414




2Dec04vkd

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**MIAMISBURG CLOSURE PROJECT**

**POTENTIAL RELEASE SITE PACKAGE**

The following document is available (December 9, 2004) for public information in the CERCLA Public Reading Room, 305 E. Central Ave., Miamisburg, Ohio.

**PRS 414: South Area Groundwater and Soil Evaluation**

Questions can be referred to Paul Lucas at (937) 847-8350 ext. 314

U.S. Department of Energy
U.S. Environmental Protection Agency
Ohio Environmental Protection Agency

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FURTHER ASSESSMENT ACTIVITY ..... 1
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December 1997 VOC Concentration Contour Plots (PCE, TCE, and DC)
February 2003 VOC Concentration Contour Plots (PCE, TCE, and DC)
January 2004 VOC Concentration Contour Plots (PCE, TCE, and DC)

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**E PRS 414 Further Assessment Data Report, January 2004, Rev. 0**

**F PRS 414 Further Assessment Data Report, March 2004, Rev 1**

**G OU-1 VOC Data Collected Subsequent to January 2004**

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# MIAMISBURG CLOSURE PROJECT
# PRS 414

**RECOMMENDATION:**

Potential Release Site (PRS) 414 is located on the south western portion of the site. PRS 414 was identified as a potential release site as a result of localized low level concentrations of VOCs in groundwater. The Core Team binned PRS 414 further assessment in May, 1998. Groundwater sampling activities occurred from 1998 through 2004. Sampling occurred during both active groundwater remediation (the pump and treat system operated continuously from Jan 1997 through May 2003) and during the OU-1 rebound test (initiated May 2003 involving shut down of the pump and treat system). Upon review of historical sampling data and rebound test data for OU1 and adjacent areas, the Core Team has concluded that PRS 414 represents the southern extent of the low level volatile organic compound (VOC) groundwater plume extending out from Operable Unit 1 (OU-1).

Therefore, the Core Team recommends that PRS 414 not be treated as a separate, independent Potential Release Site, but a manifestation of the OU-1 groundwater plume. Any continued monitoring or remediation will be addressed as part of the remedy for OU-1.

This PRS Package signed by the Core Team will be placed in the Public Reading Room for a 30-day review period. Upon closure of the public review comments, if any, the PRS Package will be issued as a final document and made available in the Public Reading Room.

**CONCURRENCE:**

DOE/MCP: Paul Lucas 12/2/04
Paul Lucas, Remedial Project Manager (date)

USEPA: Timothy J. Fischer 12/1/04
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: Brian K. Nickel 12/2/04
Brian K. Nickel, Project Manager (date)

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## PRS HISTORY

Potential Release Site (PRS) 414 is located on the south-western portion of the site. The PRS represents the southern extent of the low level volatile organic compound (VOC) groundwater plume extending out from Operable Unit 1 (OU-1). PRS 414 has been identified as a potential release site as a result of localized low level concentrations of VOC in groundwater. The Core Team binned PRS 414 further assessment in May, 1998 (Attachment D).

## FURTHER ASSESSMENT ACTIVITY

Groundwater sampling activities occurred from 1998 through 2004. Sampling occurred during both active groundwater remediation (pump and treat system on continuously from Jan 1997 through May 2003) and during the OU-1 rebound test (initiated May 2003 involving shut down of pump and treat system). Characterization of PRS 282 (spoils area) also provides information regarding the nature of the soils above PRS 414. PRS 282 was binned No Further Assessment (NFA) by the Core Team on December 11, 2002. Several bedrock wells located hydraulically upgradient (bedrock hydraulic gradient) of OU-1 have been sampled for VOCs with no detections to date. Figure 1 (Attachment A) shows the location of the wells relative to PRS 414, and Table 1 (Attachment B) shows the VOC analytical results from those wells.

The results of this further assessment characterization are documented in Attachments E, F, and G (respectively: PRS 414 Further Assessment Data Report, January 2004, Rev 0, PRS 414 Further Assessment Data Report, March 2004, Rev 1, and OU-1 VOC Data Collected Subsequent to January 2004.

## VOC CONCENTRATION HISTORY

VOC concentration contour plots have been constructed to illustrate the history of VOC concentrations for those VOCs of interest within the OU-1 and PRS 414 area (Attachment C). The concentration contour plots represent four discreet time slices for trichloroethylene (TCE), tetrachloroethene (PCE), cis 1,2 Dichloroethene (DCE), and vinyl chloride (VC) within the groundwater system at OU-1 / PRS 414, (hereafter referred to as the OU-1 groundwater system). The plots represent VOC concentrations in the OU-1 groundwater system at the following times: 1) January 1997 prior to initiation of active groundwater remediation; 2) December 1997 after approximately 10 months of active remediation with the OU-1 pump and treat system; 3) February 2003 after more than 5 years of active soil and groundwater remediation with both the pump and treat system and the OU-1 soil vapor extraction (SVE) system and just prior to initiation of the OU-1 rebound test; and 4) January 2004 after 8 months of remedial system shutdown during the OU-1 rebound test.

The maps clearly show various stages of the VOC contaminant plume in the OU-1 groundwater system. The January 1997 plots show the plume extending outward in a southerly direction (hydraulically downgradient) from the OU-1 source area into the area

overlain by present day PRS 414. The plume has not been under the influence of any remedial system at this stage and is simply responding to the ambient hydraulic gradient in the OU-1 area. The December 1997 plots show the plume after having been under the influence of the pump and treat system for approximately 10 months, (the pump and treat system was started on February 18, 1997). The plume is beginning to decrease in concentration and aerial extent. The February 2003 plots show the plume after having been under the influence of both the soil vapor extraction system (operation started December 1997) and the pump and treat system. The plume has been reduced significantly and is almost entirely restricted to the OU-1 source area. The January 2004 plots show the plume approximately 8 months into the OU-1 rebound test (test initiated in May 2003). The plume does show minor redevelopment in the area immediately adjacent to the compliance boundary (VOC concentrations, primarily TCE, show minor increases). Rebound is likely the result of diffusion of VOCs (from the OU-1 source area) from interbedded low hydraulic conductivity silts and clays within the higher conductivity glacial outwash sand and gravels.

Figures 2 and 3 (Attachment A) are provided to clarify the groundwater flow conditions both under the influence of the pump and treat system and without the pump and treat system. Figure 4 provides the locations of the wells in the vicinity of PRS 414.

Note: Vinyl chloride has not been detected in the OU-1 groundwater system above the detection limit of 1 ppb since 1998.

## REFERENCES

1) PRS 414 Potential Release Site Package, April, 1998
2) PRS 414 Further Assessment Data Report, Rev. 1, March 2004

## PREPARED BY

Mark Gilliat, CH2MHill, ER/WM Technical Staff

# Attachment A

## Figures

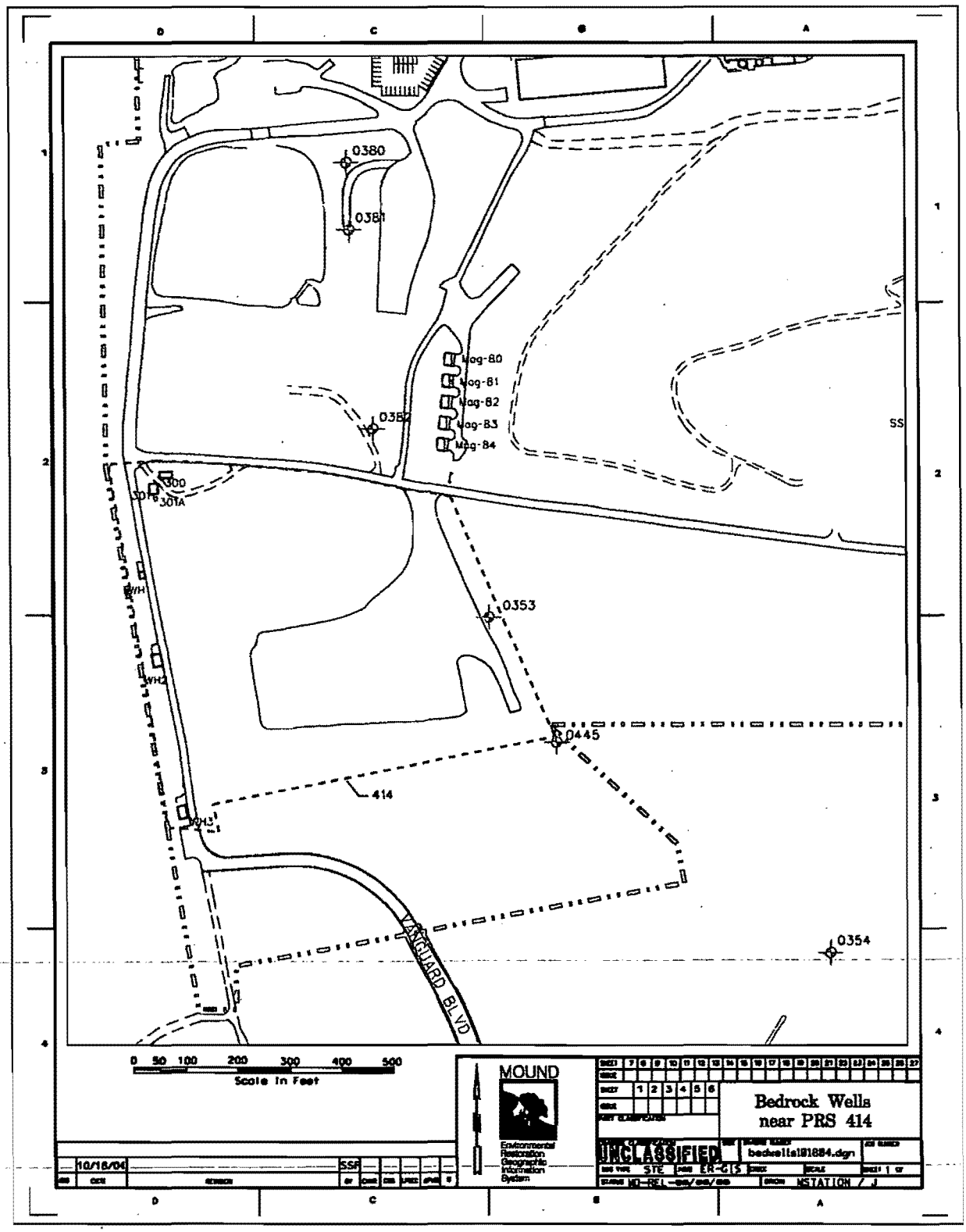



**Figure 1 Bedrock Wells Near PRS 414**

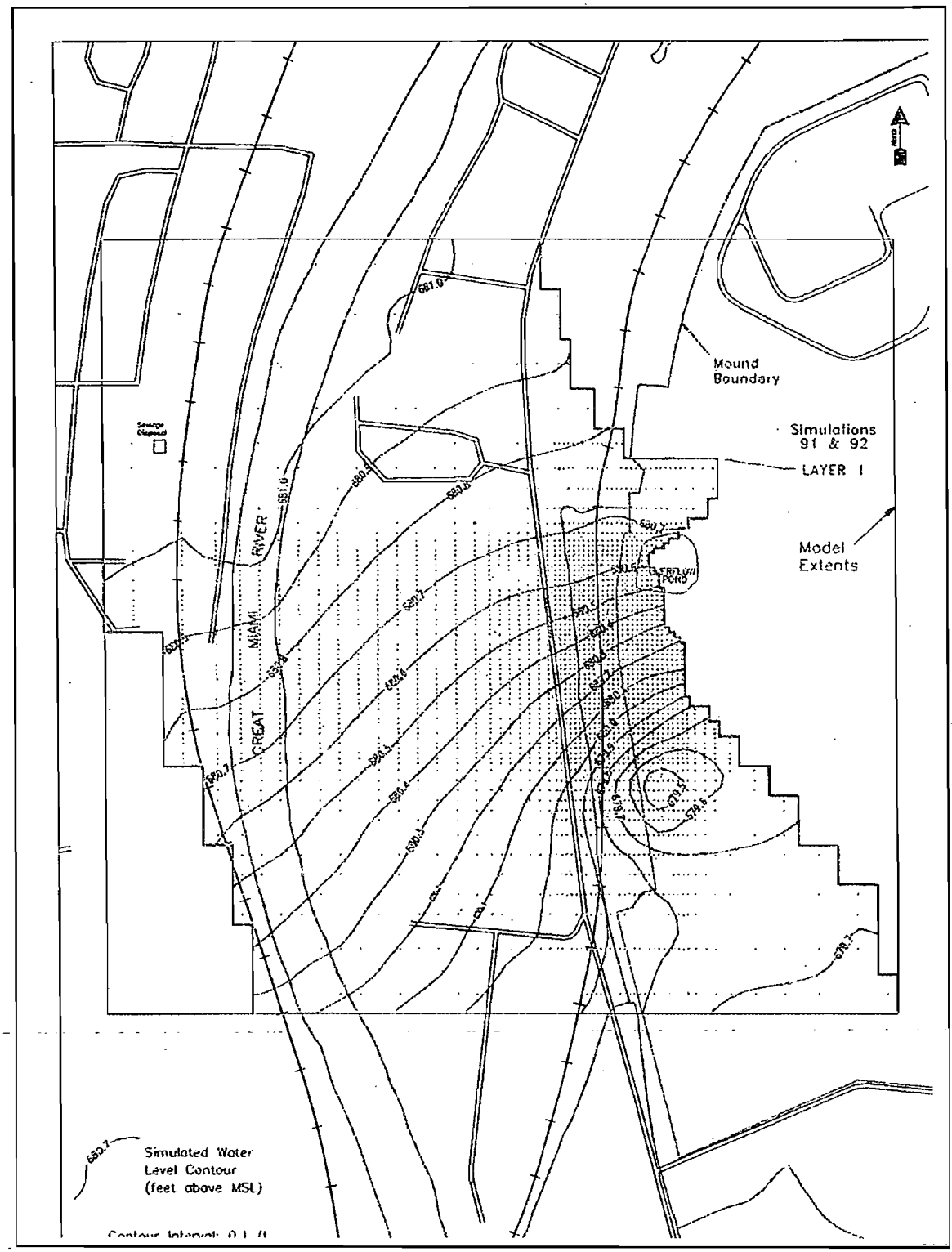



**Figure 2 Groundwater Flowfield with OU-1 Remediation Pump and Treat System Off and Production Well 3 On**

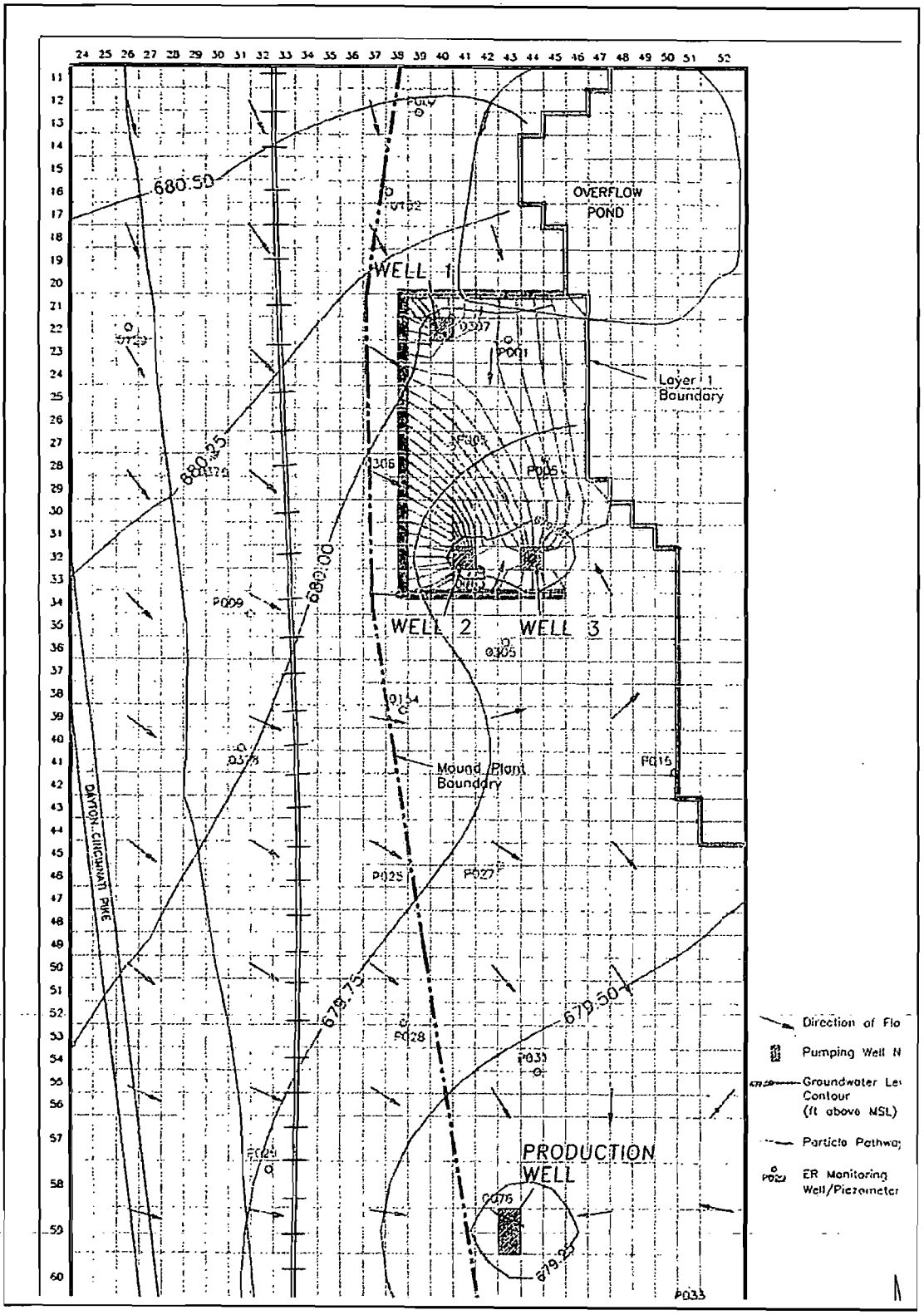



**Figure 3 Groundwater Flowfield with OU-1 Remediation Pump and Treat System On and Production Well 3 On**

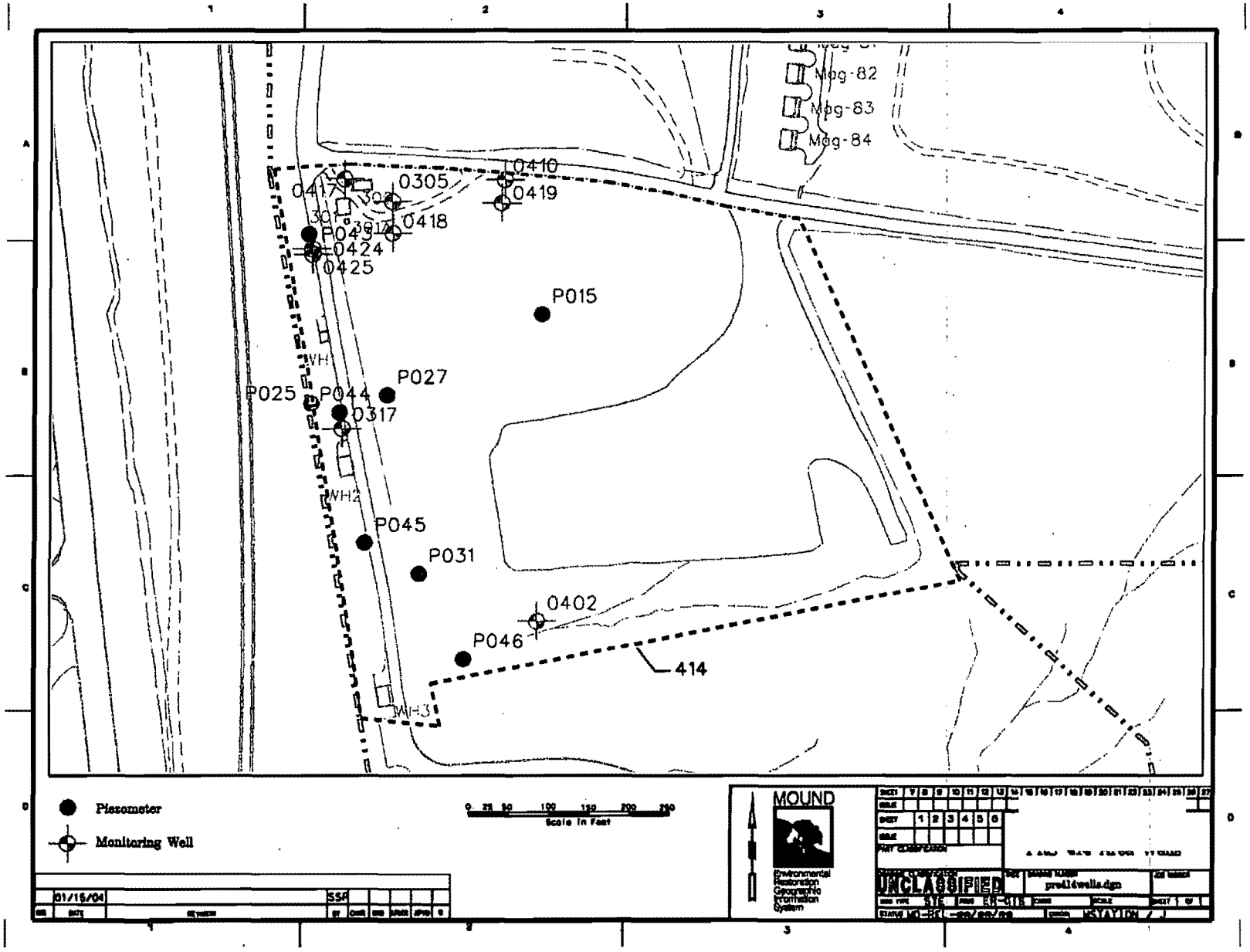



**Figure 4 PRS 414 Area Wells**

# Attachment B

## Tables

## Table 1 VOC Bedrock Results

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 353 | 19930916 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 353 | 19930916 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 353 | 19940412 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 353 | 19961212 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 19970620 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 19971212 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 19980623 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 19990119 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 19990621 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20000131 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20000623 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20010208 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20010727 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20020131 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20020726 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20030129 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20030424 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20030724 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20031021 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20040121 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20040421 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 20040713 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 353 | 19930916 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 353 | 19930916 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 353 | 19940412 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 353 | 19961212 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 353 | 19970620 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 19971212 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 19980623 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 19990119 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 19990621 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20000131 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20000623 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20010208 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20010727 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20020131 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20020726 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20030129 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20030424 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20030724 | Tetrachloroethene | 0.48 | UG/L | | | 0.3 |
| 353 | 20031021 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20040121 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20040421 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 20040713 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 353 | 19930916 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 353 | 19930916 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 353 | 19940412 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 353 | 19961212 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 19970620 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 19971212 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 19980623 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 19990119 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 19990621 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |

B2

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 353 | 20000131 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20000623 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20010208 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20010727 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20020131 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20020726 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20030129 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20030424 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20030724 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20031021 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20040121 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20040421 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 20040713 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 353 | 19930916 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 353 | 19930916 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 353 | 19940412 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 353 | 19961212 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 19970620 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 19971212 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 19980623 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 19990119 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 19990621 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20000131 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20000623 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20010208 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20010727 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20020131 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20020726 | Vinyl Chloride | 1 | UG/L | U | | 1 |

B3

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 353 | 20030129 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20030424 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20030724 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20031021 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20040121 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20040421 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 353 | 20040713 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 354 | 19931011 | 1,2-cis-Dichloroethene | 1 | UG/L | U | UJ | 1 |
| 354 | 19940323 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 354 | 20000201 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 354 | 19931011 | Tetrachloroethene | 0.3 | UG/L | U | UJ | 0.3 |
| 354 | 19940323 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 354 | 20000201 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 354 | 19931011 | Trichloroethylene (TCE) | 1.2 | UG/L | U | UJ | 1.2 |
| 354 | 19940323 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 354 | 20000201 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 354 | 19931011 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 354 | 19940323 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 354 | 20000201 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 380 | 19930331 | 1,2-cis-Dichloroethene | 1 | UG/L | U | UJ | 1 |
| 380 | 19930927 | 1,2-cis-Dichloroethene | 1 | UG/L | U | UJ | 1 |

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 380 | 19940324 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 380 | 19930331 | Tetrachloroethene | 0.3 | UG/L | U | UJ | 0.3 |
| 380 | 19930927 | Tetrachloroethene | 0.3 | UG/L | U | UJ | 0.3 |
| 380 | 19940324 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 380 | 19930331 | Trichloroethylene (TCE) | 1.2 | UG/L | U | UJ | 1.2 |
| 380 | 19930927 | Trichloroethylene (TCE) | 1.2 | UG/L | U | UJ | 1.2 |
| 380 | 19940324 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 380 | 19930331 | Vinyl Chloride | 1.8 | UG/L | U | UJ | 1.8 |
| 380 | 19930927 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 380 | 19940324 | Vinyl Chloride | 1 | UG/L | U | U | 1 |
| 381 | 19930401 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 381 | 19930929 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 381 | 19940408 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 381 | 19930401 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 381 | 19930929 | Tetrachloroethene | 0.3 | UG/L | U | UJ | 0.3 |
| 381 | 19940408 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 381 | 19930401 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 381 | 19930929 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 381 | 19940408 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 381 | 19930401 | Vinyl Chloride | 1.8 | UG/L | U | U | 1.8 |
| 381 | 19930929 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 381 | 19940408 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 382 | 19930401 | 1,2-cis-Dichloroethene | 1 | UG/L | U | UJ | 1 |
| 382 | 19930926 | 1,2-cis-Dichloroethene | 1 | UG/L | U | UJ | 1 |
| 382 | 19940317 | 1,2-cis-Dichloroethene | 1 | UG/L | U | U | 1 |
| 382 | 19961212 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 19970115 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 19970626 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 19971216 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 19980624 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 19990107 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 19990621 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20000125 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20000623 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20010207 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20010727 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20020130 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20020725 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20030219 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 382 | 20030721 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |

B6

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 382 | 19930401 | Tetrachloroethene | 0.3 | UG/L | U | UJ | 0.3 |
| 382 | 19930926 | Tetrachloroethene | 0.3 | UG/L | U | UJ | 0.3 |
| 382 | 19940317 | Tetrachloroethene | 0.3 | UG/L | U | U | 0.3 |
| 382 | 19961212 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 19970115 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 19970626 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 19971216 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 19980624 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 19990107 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 19990621 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20000125 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20000623 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20010207 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20010727 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20020130 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20020725 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20030219 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 20030721 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 382 | 19930401 | Trichloroethylene (TCE) | 1.2 | UG/L | U | UJ | 1.2 |
| 382 | 19930926 | Trichloroethylene (TCE) | 1.2 | UG/L | U | UJ | 1.2 |
| 382 | 19940317 | Trichloroethylene (TCE) | 1.2 | UG/L | U | U | 1.2 |
| 382 | 19961212 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 19970115 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 19970626 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 19971216 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 19980624 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 19990107 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 19990621 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 382 | 20000125 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 20000623 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 20010207 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 20010727 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 20020130 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 20020725 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 20030219 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 20030721 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 382 | 19921215 | Vinyl Chloride | 11 | UG/KG | U | U | 11 |
| 382 | 19921215 | Vinyl Chloride | 11 | UG/KG | U | U | 11 |
| 382 | 19921215 | Vinyl Chloride | 11 | UG/KG | U | U | 11 |
| 382 | 19921216 | Vinyl Chloride | 11 | UG/KG | U | U | 11 |
| 382 | 19921216 | Vinyl Chloride | 11 | UG/KG | U | U | 11 |
| 382 | 19930401 | Vinyl Chloride | 1.8 | UG/L | U | UJ | 1.8 |
| 382 | 19930926 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 382 | 19940317 | Vinyl Chloride | 1 | UG/L | U | UJ | 1 |
| 382 | 19961212 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 19970115 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 19970626 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 19971216 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 19980624 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 19990107 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 19990621 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 20000125 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 20000623 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 20010207 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 20010727 | Vinyl Chloride | 1 | UG/L | U | | 1 |

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 382 | 20020130 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 20020725 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 20030219 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 382 | 20030721 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20020507 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20020719 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20021108 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20030130 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20030428 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20031021 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20040122 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20040423 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20040715 | 1,2-cis-Dichloroethene | 1 | UG/L | U | | 1 |
| 445 | 20020507 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20020719 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20021108 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20030130 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20030428 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20031021 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20040122 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20040423 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |
| 445 | 20040715 | Tetrachloroethene | 0.3 | UG/L | U | | 0.3 |

| Well_name | Collection_date | Value_name | Measured_value | Value_units | Lab_qualifier | Data_qualifier | Detection_limit |
|---|---|---|---|---|---|---|---|
| 445 | 20020507 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20020719 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20021108 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20030130 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20030428 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20031021 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20040122 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20040423 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20040715 | Trichloroethylene (TCE) | 1.2 | UG/L | U | | 1.2 |
| 445 | 20020507 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20020719 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20021108 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20030130 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20030428 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20031021 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20040122 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20040423 | Vinyl Chloride | 1 | UG/L | U | | 1 |
| 445 | 20040715 | Vinyl Chloride | 1 | UG/L | U | | 1 |

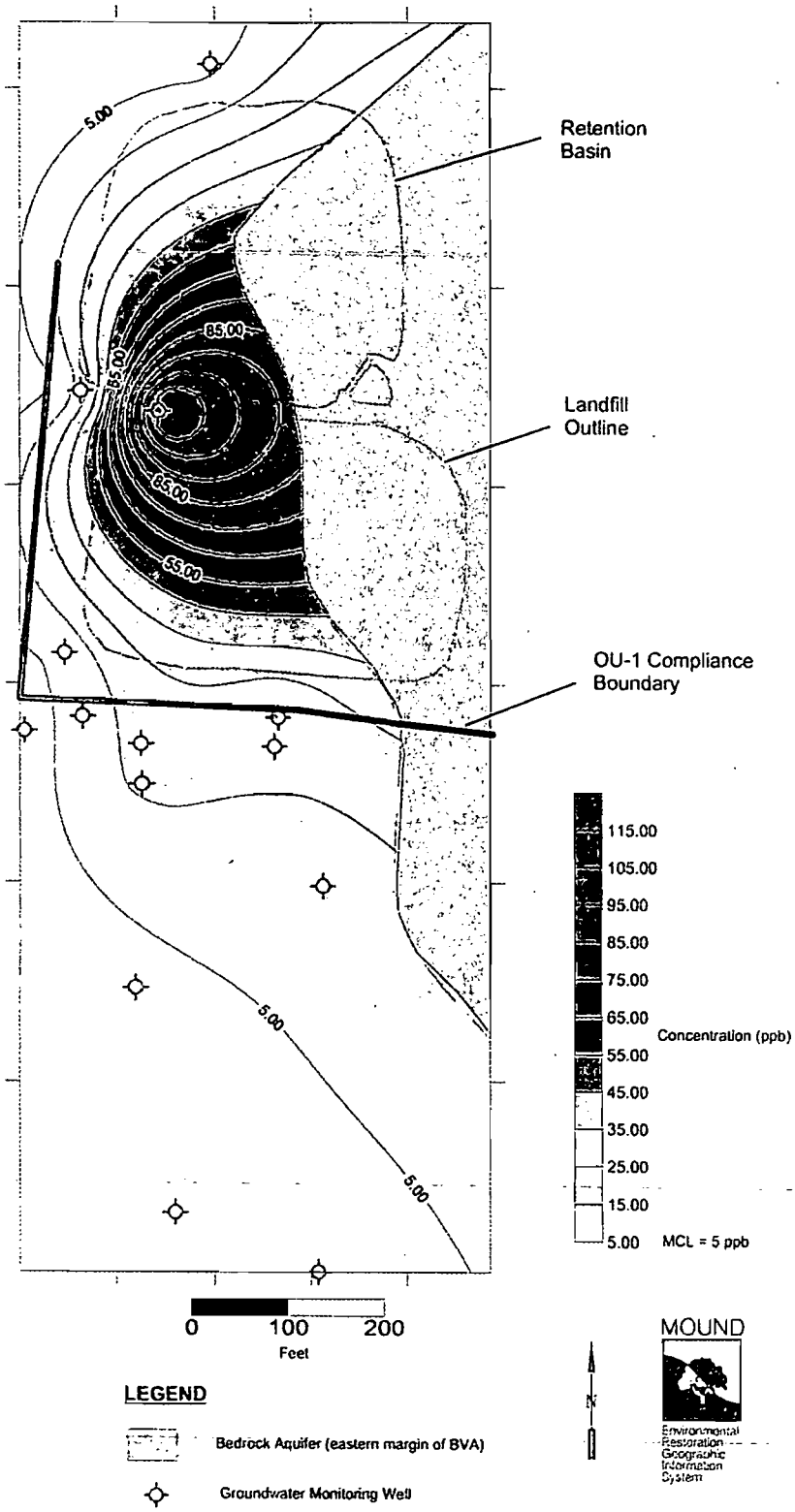
B10

# Attachment C

## VOC Concentration Contour Plots in the OU-1 Groundwater System

# January 1997 VOC Concentration Contour Plots

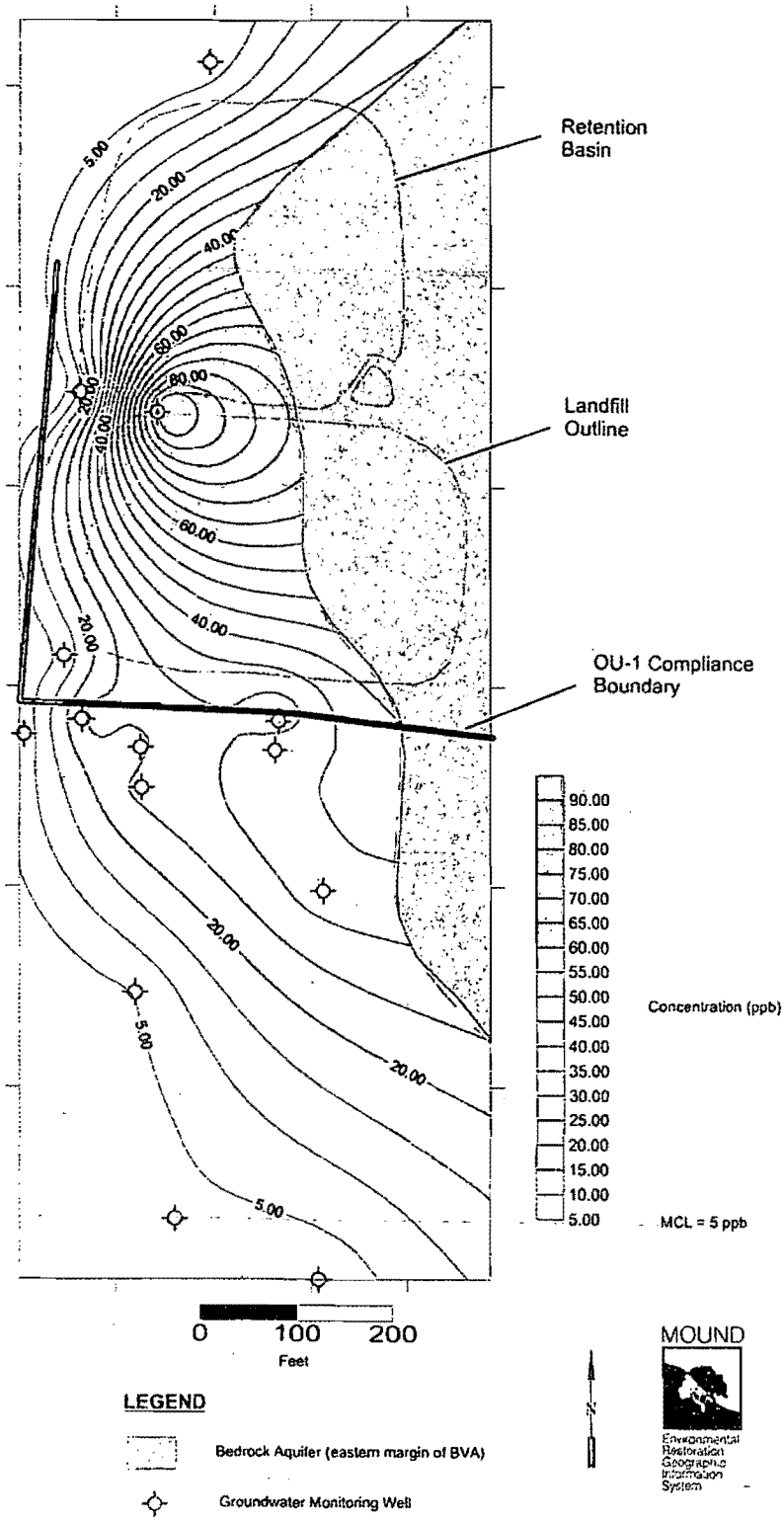
## Jan 1997 PCE Concentrations at OU-1





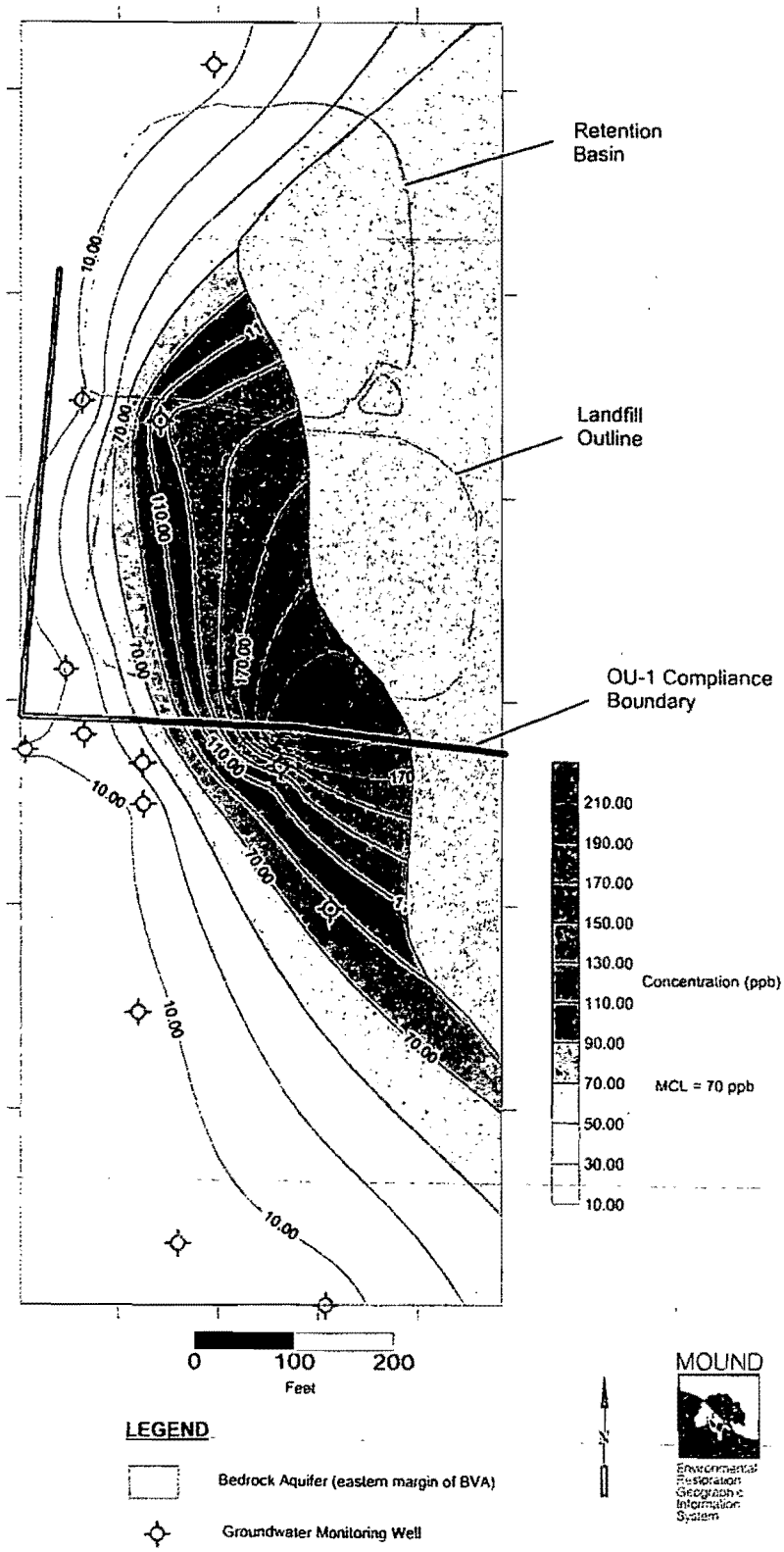

C2

## Jan 1997 TCE Concentrations at OU-1




C3

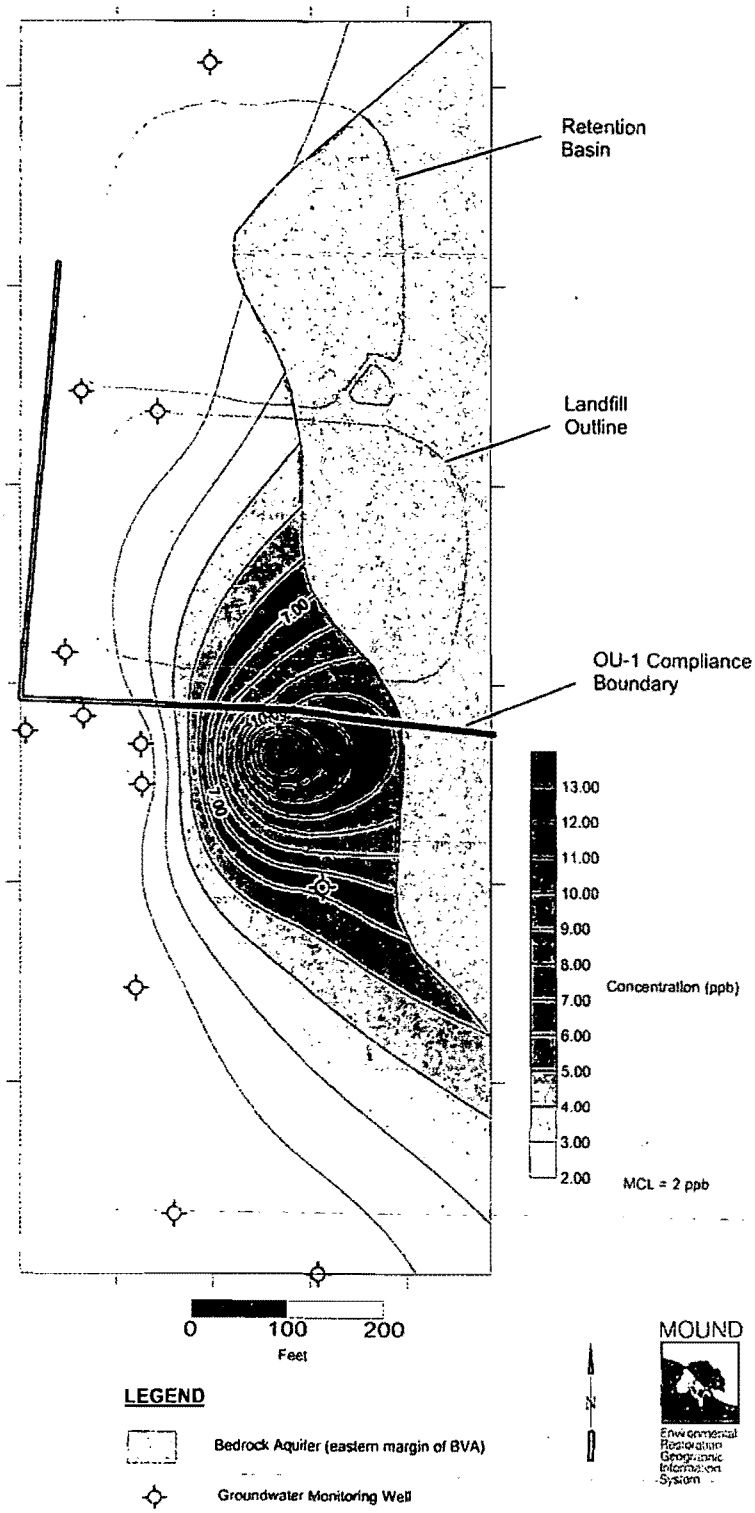
## Jan 1997 DCE Concentrations at OU-1






C4

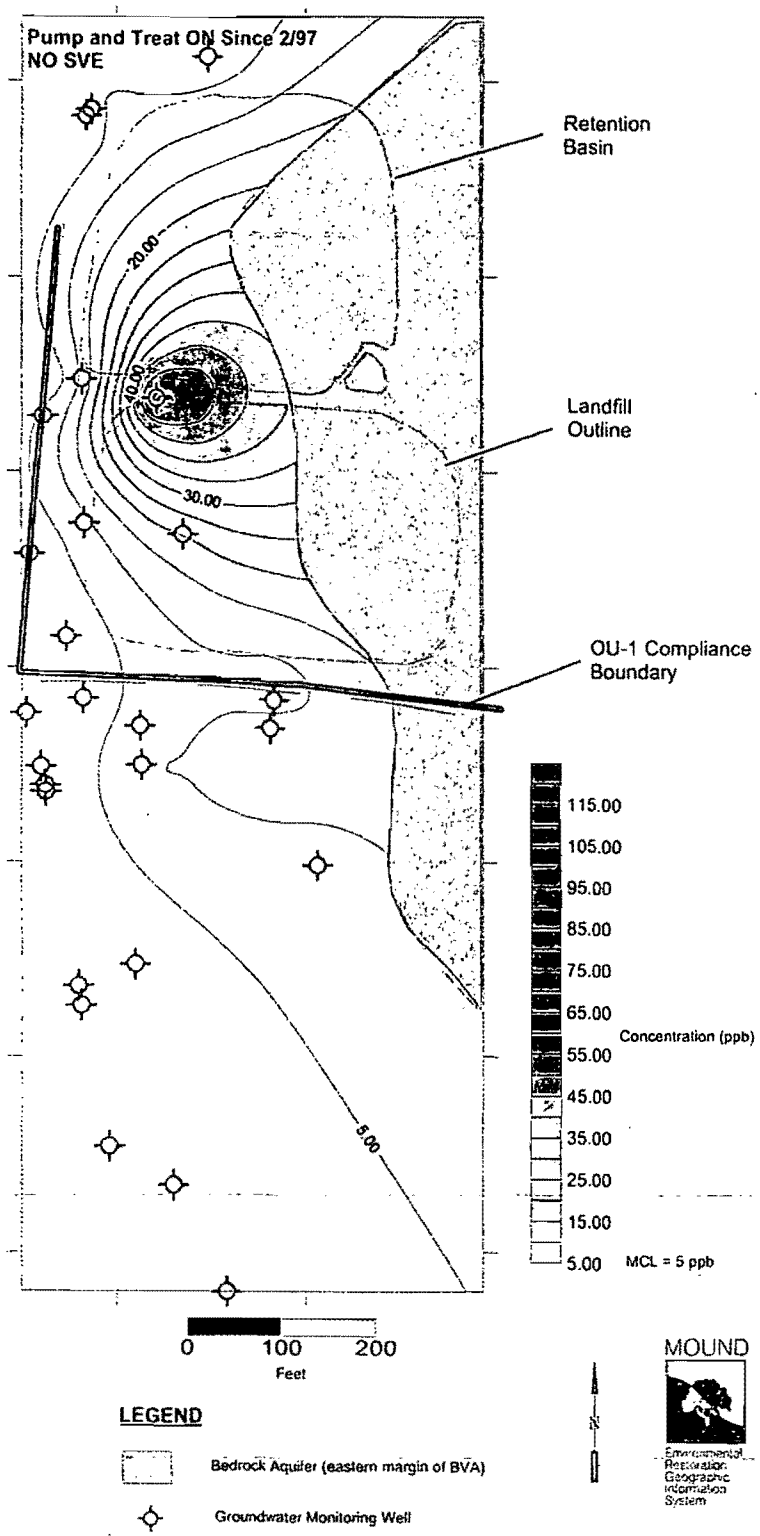
## Jan 1997 VC Concentrations at OU-1



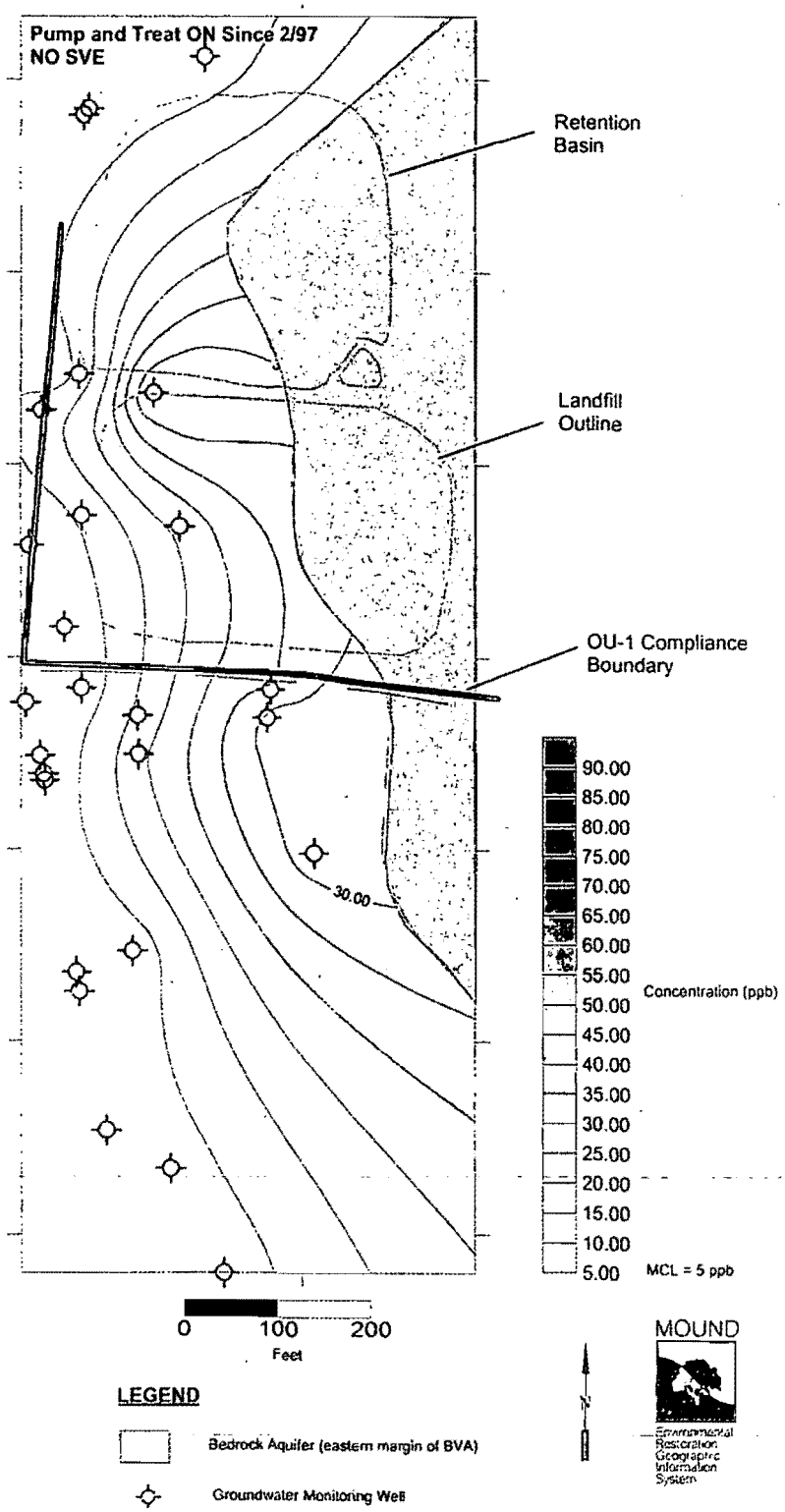

CS

# December 1997 VOC Concentration Contour Plots

## Dec 1997 PCE Concentrations at OU-1

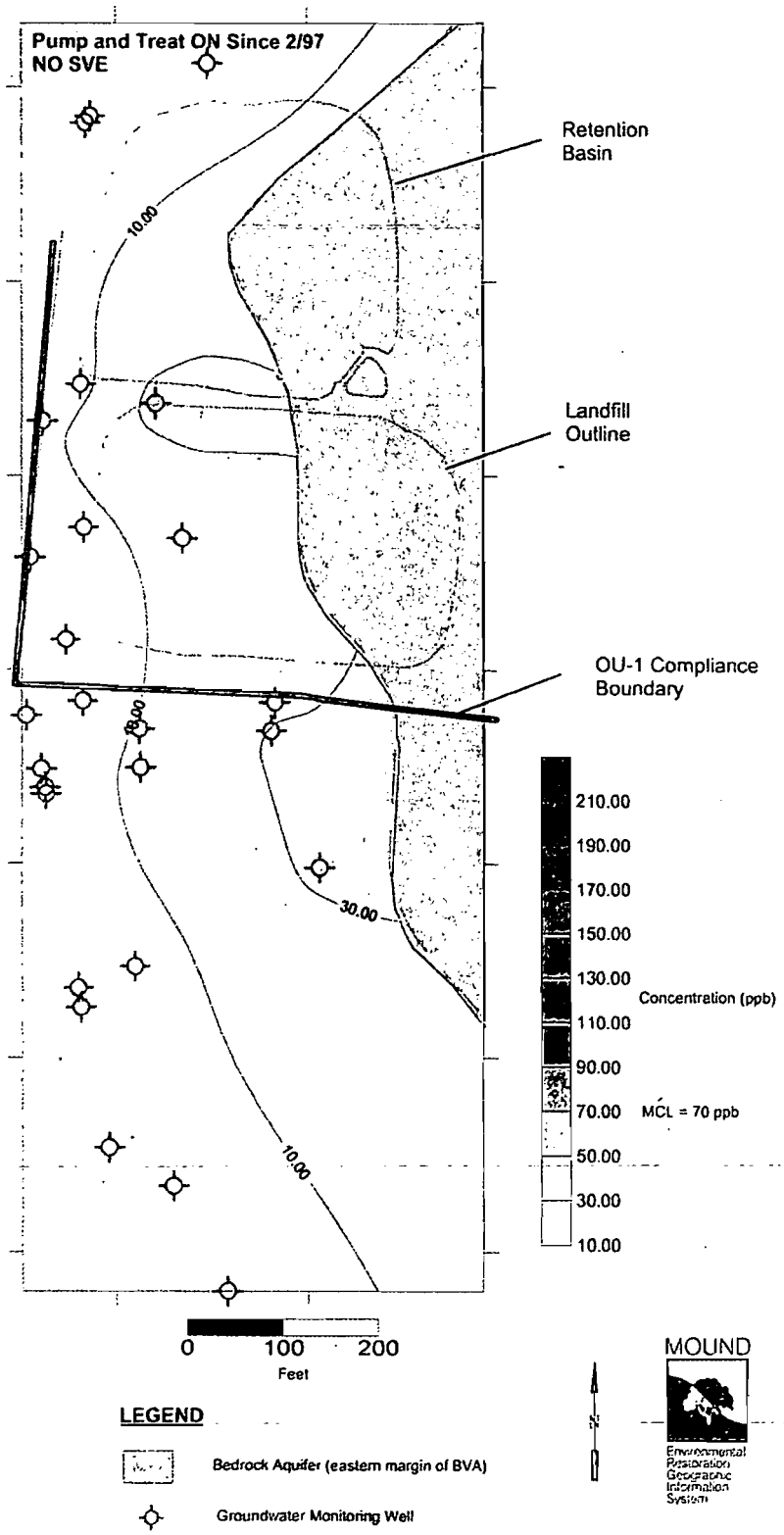


## Dec 1997 TCE Concentrations at OU-1




C8

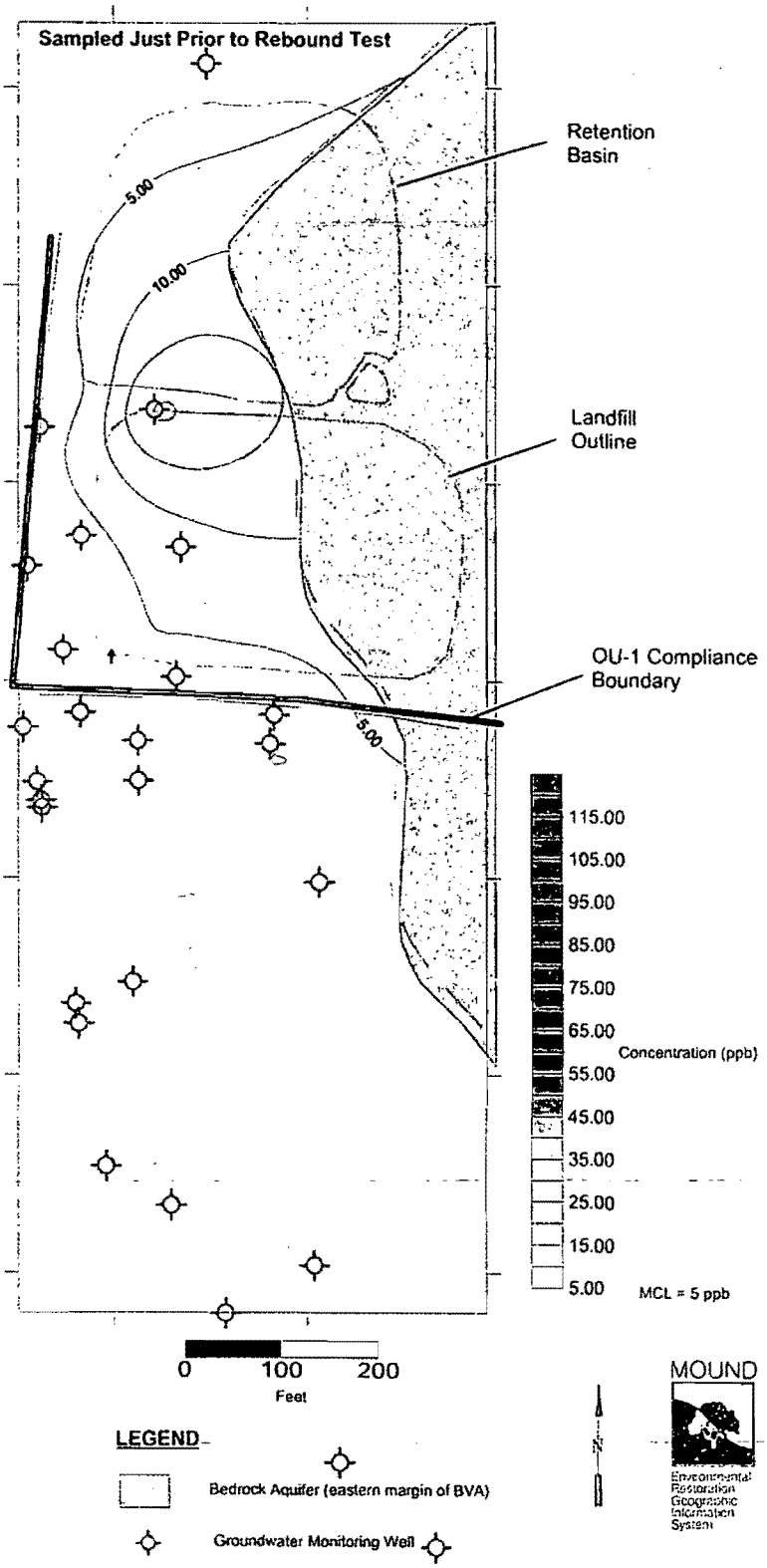
# Dec 1997 DCE Concentrations at OU-1




C9

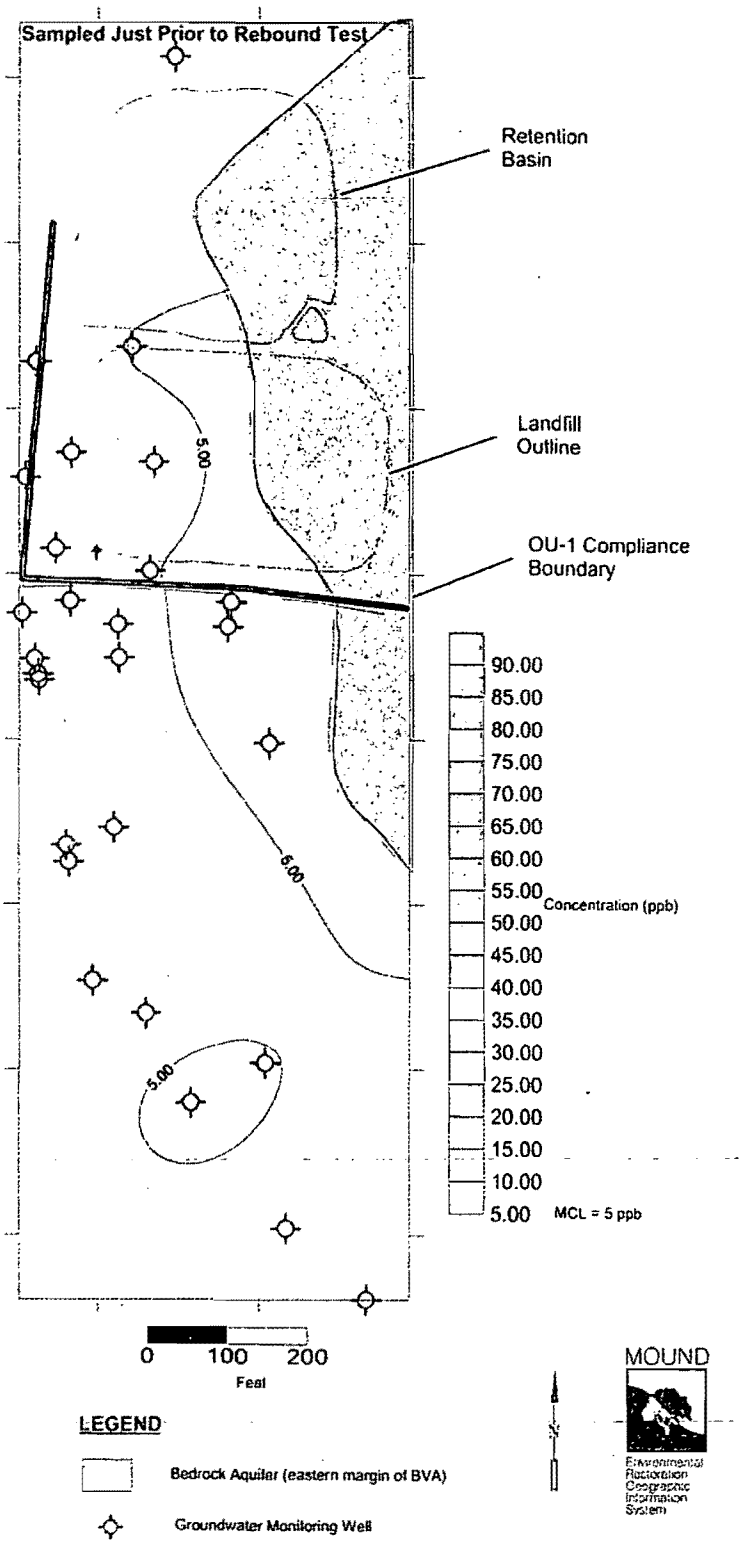
# February 2003 VOC Concentration Contour Plots

# Feb 2003 PCE Concentrations at OU-1



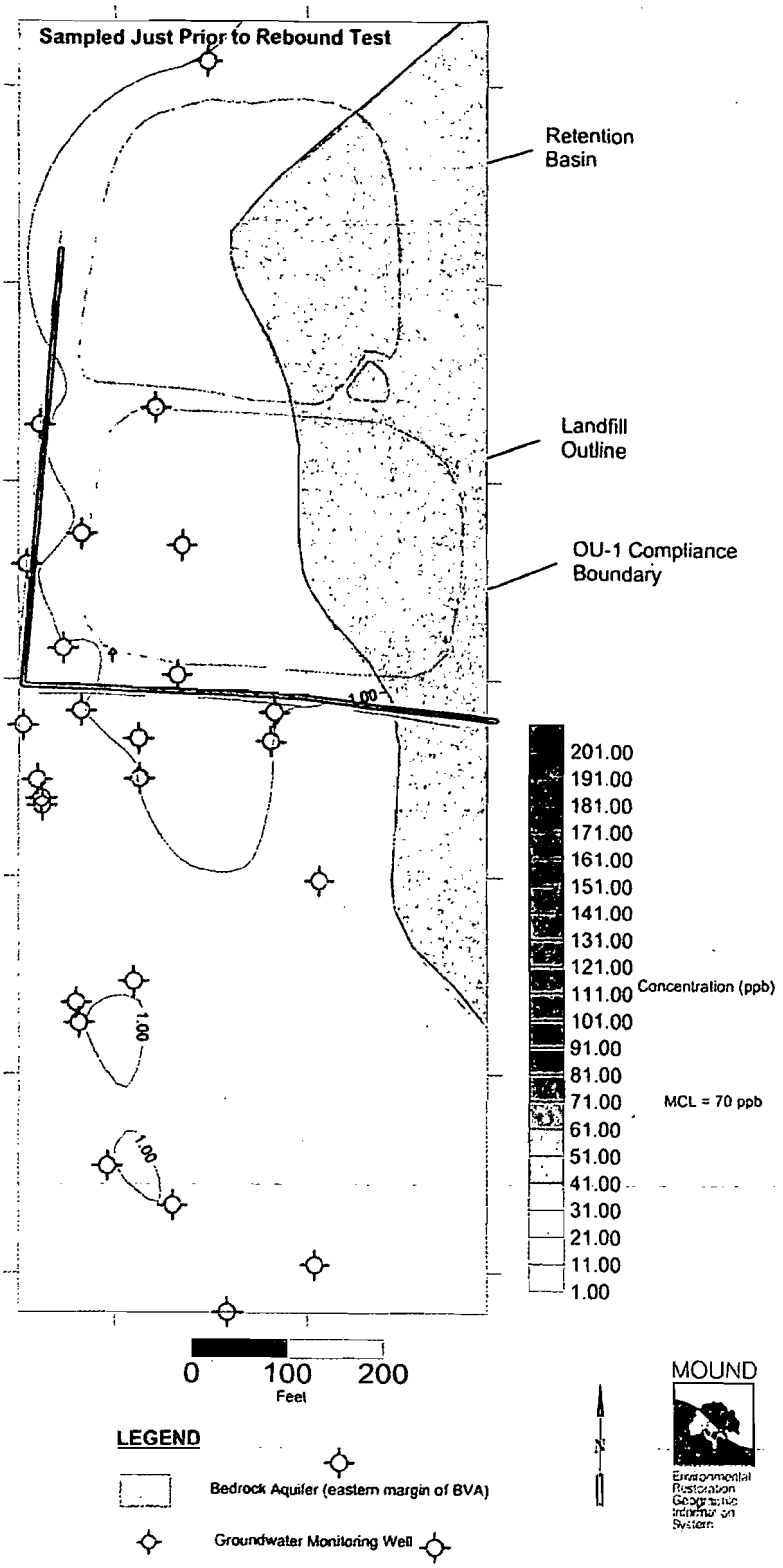

C11

## Feb 2003 TCE Concentrations at OU-1




C12

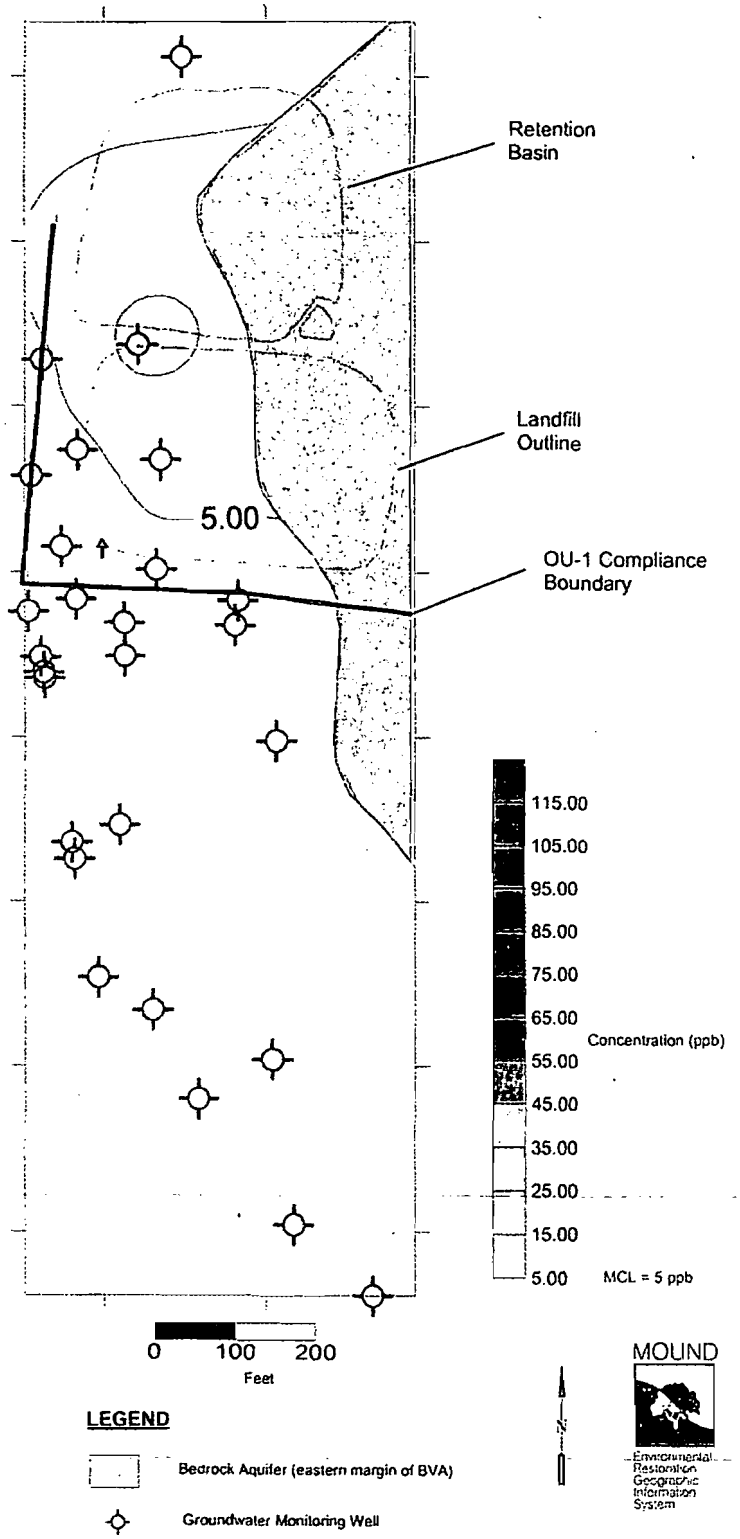
## Feb 2003 DCE Concentrations at OU-1




C13

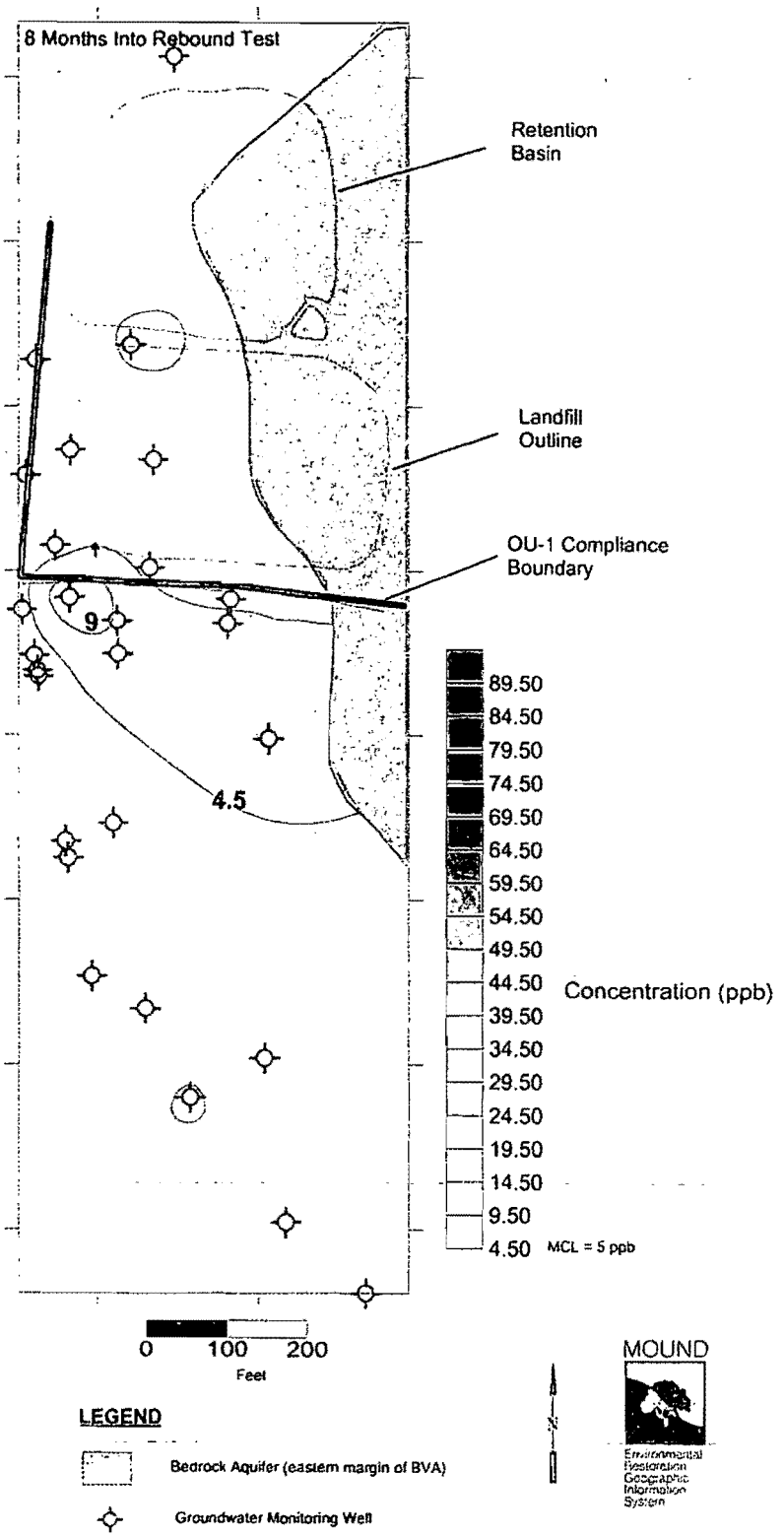
# January 2004 VOC Concentration Contour Plots

## Jan 2004 PCE Concentrations at OU-1



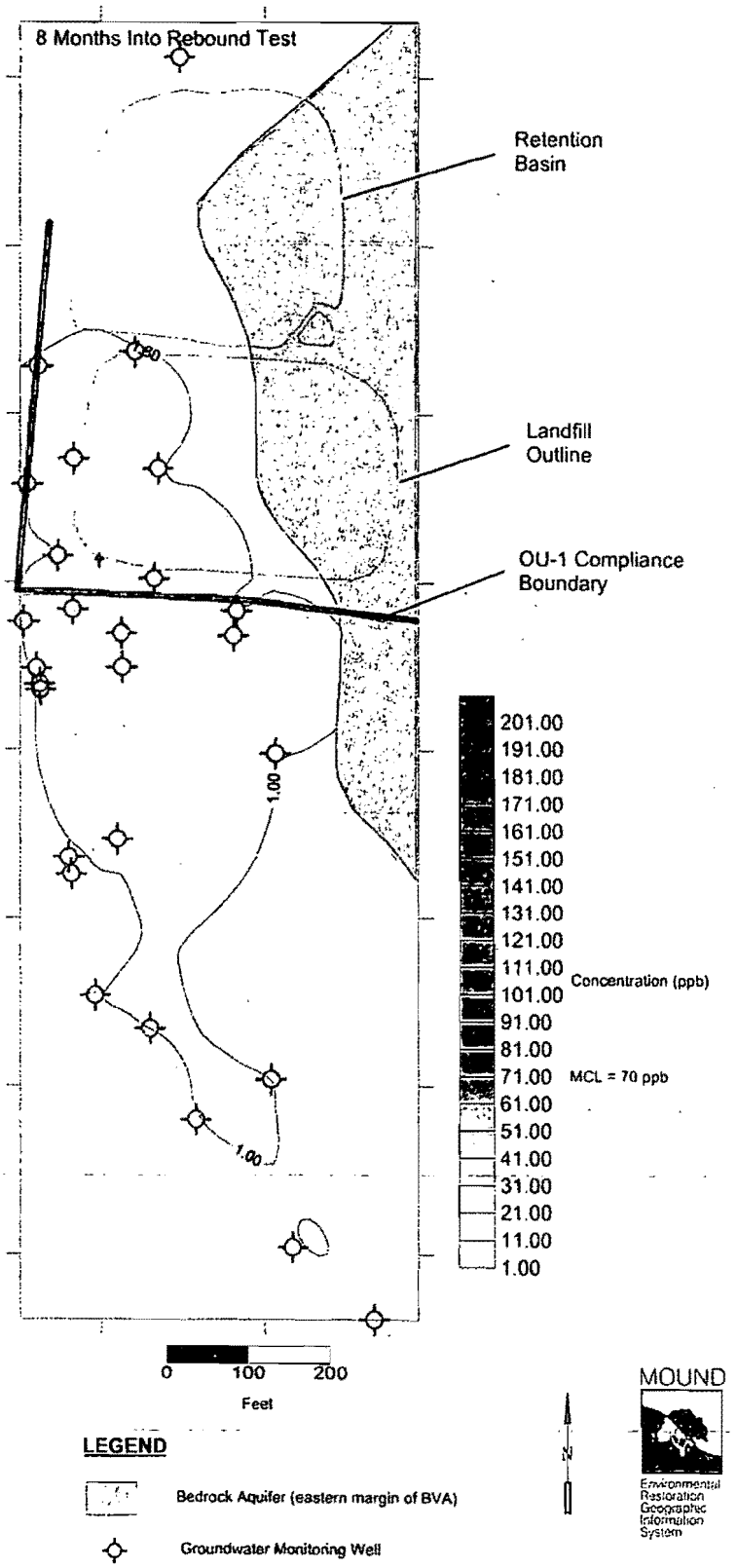

C15

## Jan 2004 TCE Concentrations at OU-1




C16

# Jan 2004 DCE Concentrations at OU-1



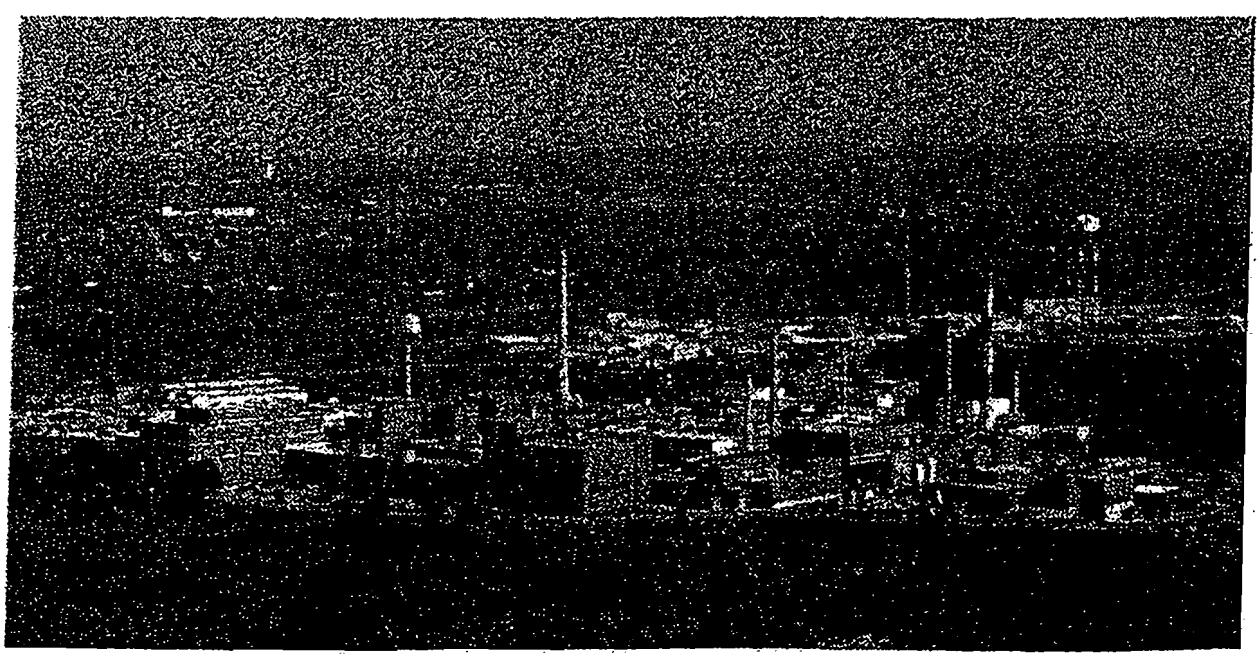
# Attachment D

## PRS 414 PRS Package, May 1998

MOUND

Environmental
Restoration
Program

# MOUND PLANT
# Potential Release Site Package
# PRS # 414



D1

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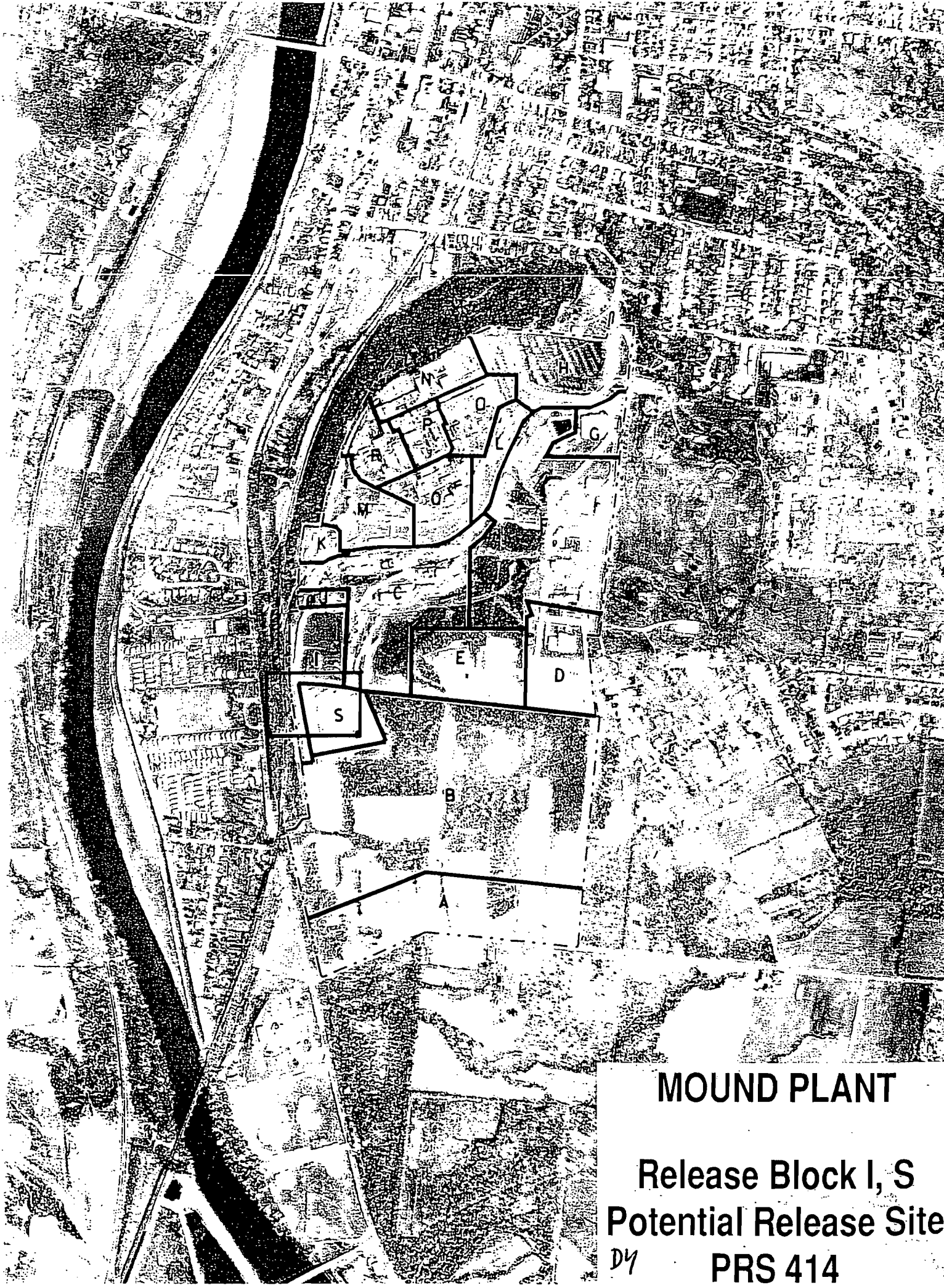
PRS 414 (FILE)

| REV | DESCRIPTION | DATE |
|---|---|---|
| DRAFT | Revised February 8, 1998. Geographic extent redefined. | Apr. 6, 1998 |
| REGULATOR RELEASE A | | Apr. 13, 1998 |
| | | |
| | | |
| | | |

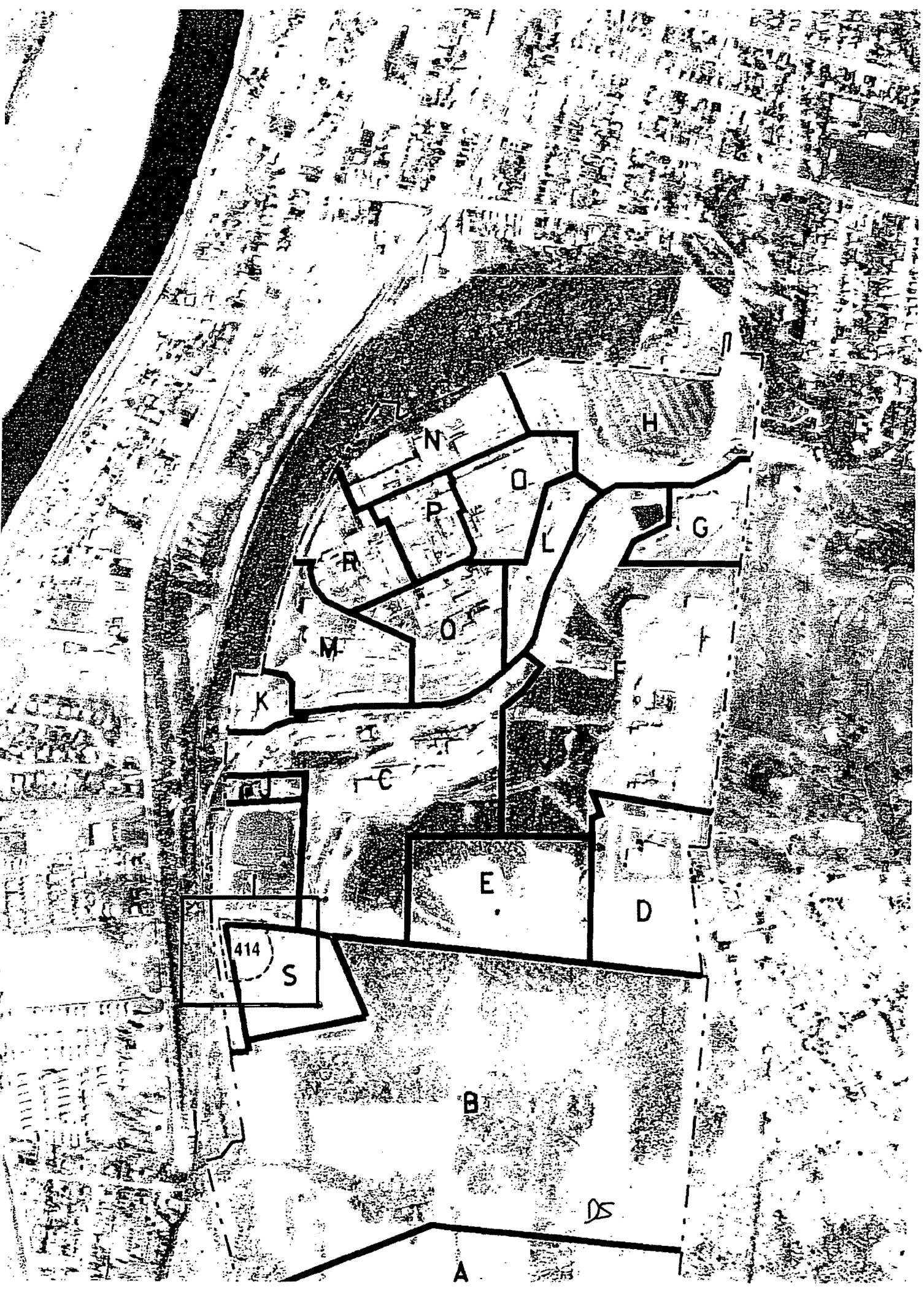
D3




# MOUND PLANT

## Release Block I, S
## Potential Release Site
## PRS 414

DY


H
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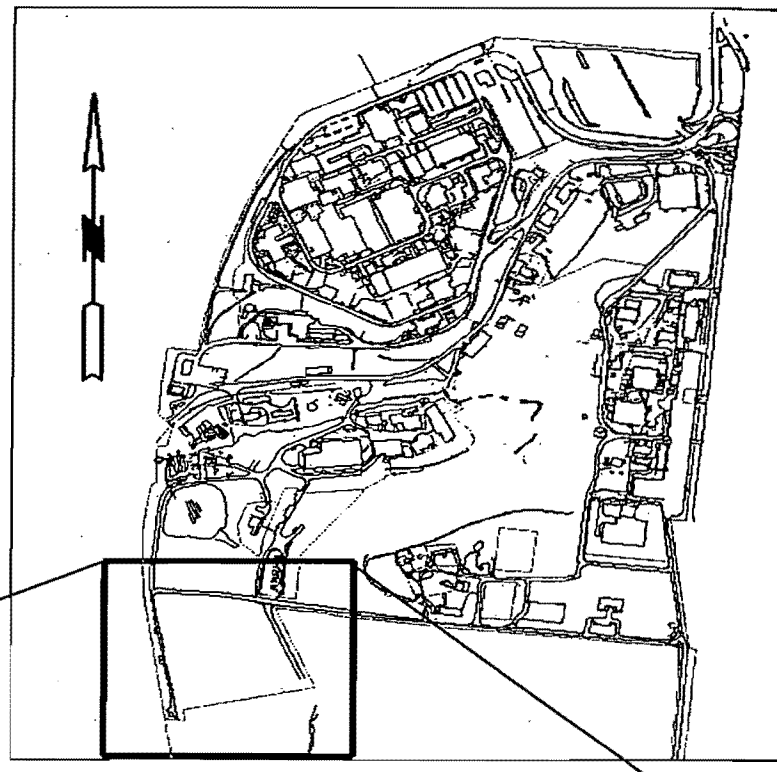
414
S
B
A

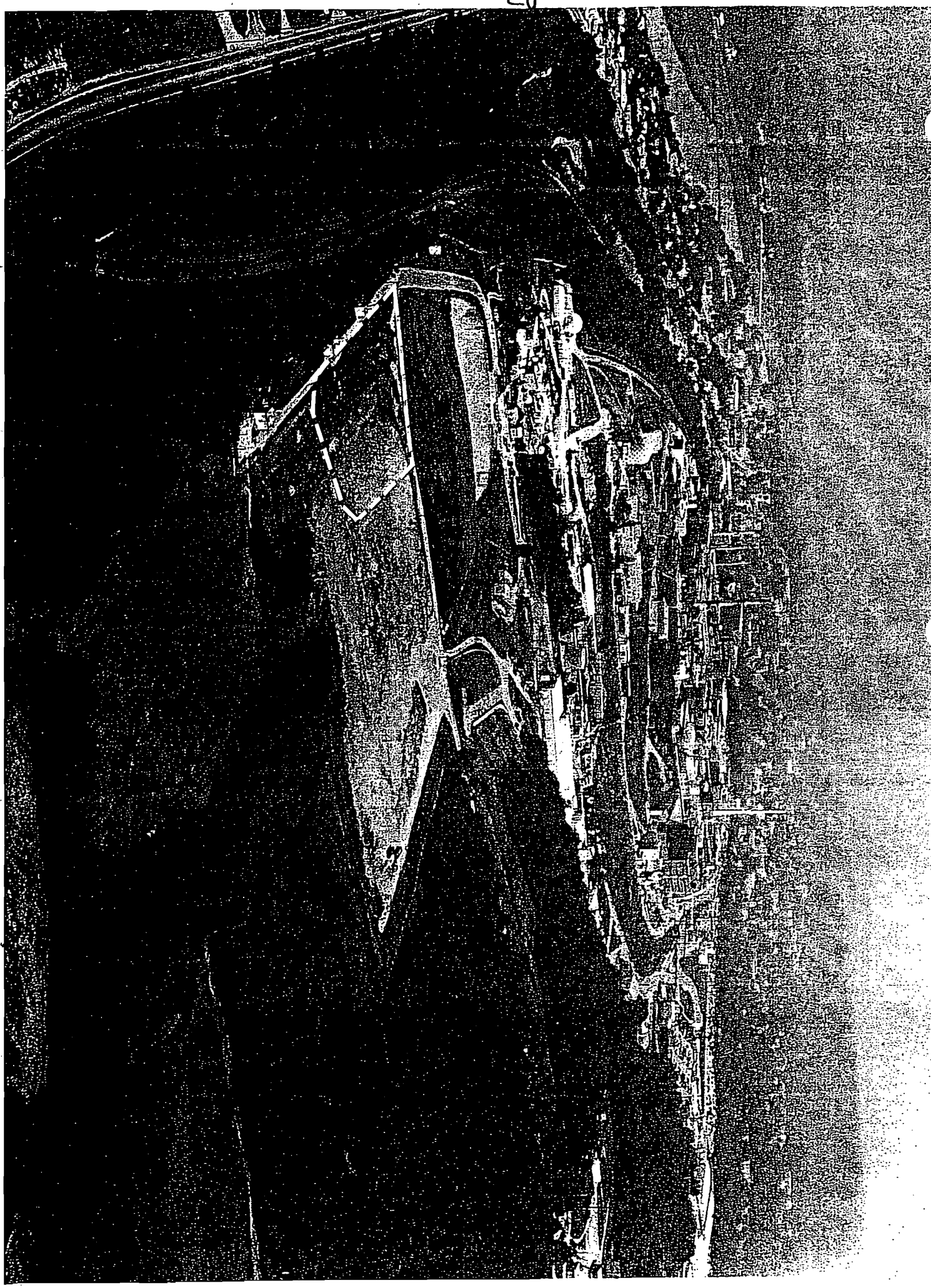
# Mound Plant

## Release Block I, S
## Potential Release Site

## PRS 414



D6



# PRS 414

## PRS HISTORY

Potential Release Site (PRS) 414 has been identified as a potential release site as a result of localized elevated volatile organic compound (VOC) groundwater concentrations. PRS 414 is located directly south of Operable Unit 1 (OU1). The east, west, and south boundaries of the PRS are defined by drawing a line through the monitoring wells where VOCs have been detected. Data indicates nine monitoring wells and piezometers within PRS 414 bounds having VOC concentrations exceeding MCLs. Appendix 1 shows VOC detections with time for the affected wells and piezometers. The data was obtained from numerous groundwater sampling events at the Mound Plant.

No activities were known to have occurred directly above the aquifer at this location that would have caused the groundwater contamination.

Potential Release Sites in the vicinity of PRS 414 include:

- Those found in Operable Unit 1 (OU1). OU1 is hydraulically upgradient from PRS 414. Groundwater at OU1 is contaminated with VOCs and is being treated to remove them.
- PRS 282, the Construction Spoils Area, is directly above PRS 414. Mound screened construction spoils for radioactivity and shipped soil with greater than 25 pCi/g Pu-238 or greater than 5 pCi/g thorium off the site for disposal. Construction spoils with less radioactivity were kept on the site as a best management practice. There is no known history of disposing of VOC-contaminated soil in the construction spoils.
- PRS 11, Area 2 thorium and polonium contaminated crushed drums, extends into the northwest corner of PRS 414. There is no known VOC contamination of the crushed drums.

## CONTAMINATION

Several volatile organic compounds have been detected above MCLs (Table 1) in monitoring wells and piezometers located within PRS 414. Those compounds include methylene chloride, trichloroethene, vinyl chloride, 1,2-dichloroethene, tetrachloroethene and bis (2-ethylhexyl) phthalate. The affected wells and piezometers include 0154, 0155, 0305, 0410, 0471, 0571, P015 and P027. The geologic well logs for the affected wells and piezometers are attached in Appendix-2. Note that wells 0155, 0154, 0471 and 0571 have been abandoned.

Methylene chloride, cis- and trans- 1, 2 dichloroethene and vinyl chloride can occur as chemical and biological transformation products of TCE, PCE and TCA, all three of which have shown elevated concentrations in the upgradient OU1 area. The observation that transformation products are seen in downgradient wells suggests the possibility that some degree of natural attenuation may be occurring within the aquifer system.

This PRS package does not include recent groundwater data collected after the startup of the pump and treat system for OU1.



D9

## REFERENCES:


1) OU5, Operational Area Phase 1 Investigation, Area 7 Field Report (FINAL).

2) Operable Unit 5 New Property Extended Phase Field Report. Volume II - Appendices A-F. Final (Revision 0).

3) Groundwater Water Monitoring Data Report Through Second Quarter, FY 91-92. Draft. Revision 0

4) Operable Unit 1, Area B December 1991 Ground Water and Seep Water Quality Data at Mound Plant

5) Cumulative Groundwater Monitoring Data Report Through Fourth Quarter, FY92. Volume 2. Draft. Revision 0

6) Groundwater Water Monitoring Data Report through Third Quarter, FY 1991-92. Draft. Revision 0

7) Groundwater Monitoring and Mapping Results for December,1992. Validated Data.

8) Groundwater Monitoring and Mapping Results for March 1993. Validated Data.

9) Report of Data Validation Results RCRA Semi-Annual Monitoring Results Groundwater Monitoring and Mapping for Spring 1995. Working Draft (Revision O) EGG 595. (C)

10) Groundwater Monitoring and Mapping for June 1995 Operable Unit 9. Working Draft.

11) Report of Data Validation Results Additional OU9 Groundwater Sampling December 1995. Revision 0

12) Groundwater Monitoring and Mapping for December 1995 Operable Unit 9 - Electronic Data Files. December 1995 Groundwater and Seep Sampling Results

13) Groundwater Monitoring and Mapping Results for October/November, 1994. Final. Revision 0.

14) Shallow Bedrock Wells. Operable Unit 1, Area B. Additional Field Work
Groundwater Sampling Hits, Duplicates, Blanks (b), and "J" Values. Mound Plant. Location List. Parameter List. Draft

15) Analytical and other Data including: Groundwater, Water Levels, Soil Chemistry, and GINT Logs on Compact Disk. Work Order 05376-039-001

16) Operable Unit 9 Hydrogeologic Investigation: Groundwater Sweeps Report. Data Supplement. Volume 3 - G.1. Technical Memorandum. Revision 0

17) Operable Unit 9 Hydrogeologic Investigation: Groundwater Sweeps Report. Data Supplement. Volume 4 - G.2 through G.3. Technical Memorandum. Revision 0

**PREPARED BY:**

Mark Gilliat , BWO Technical Staff
Ken Hacker, EG&G Operable Unit 1 Manager
John Price, BWO Soils Project Manager



D11

**MOUND PLANT**
**PRS 414**
**Contaminated Soil**

**RECOMMENDATION:**

**CONCURRENCE:**

DOE/MEMP: _____
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA: _____
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____
Brian K. Nickel, Project Manager (date)

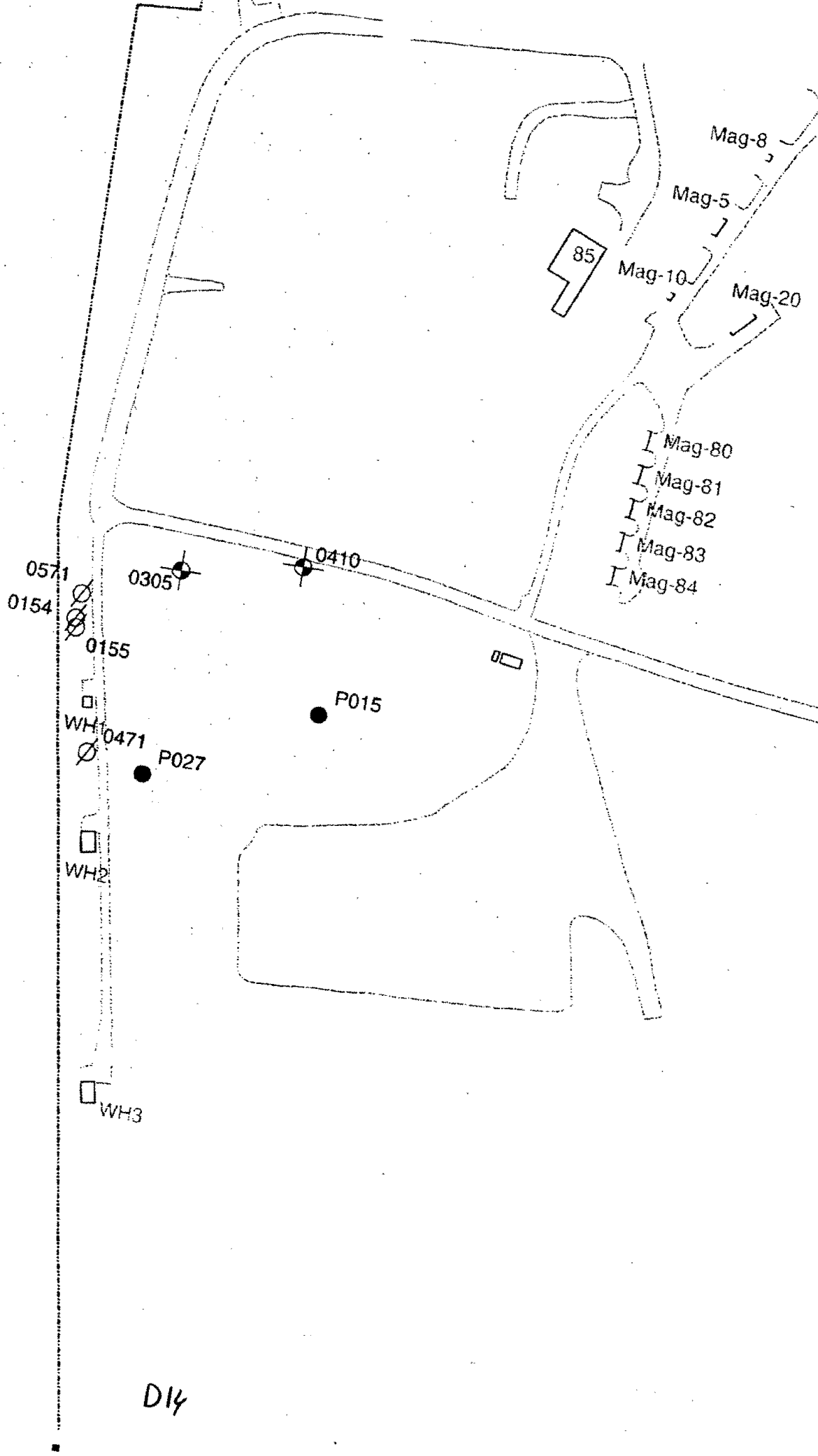
**SUMMARY OF COMMENTS AND RESPONSES:**

Comment period from _____ to _____

☐ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

Reference Material For PRS 414

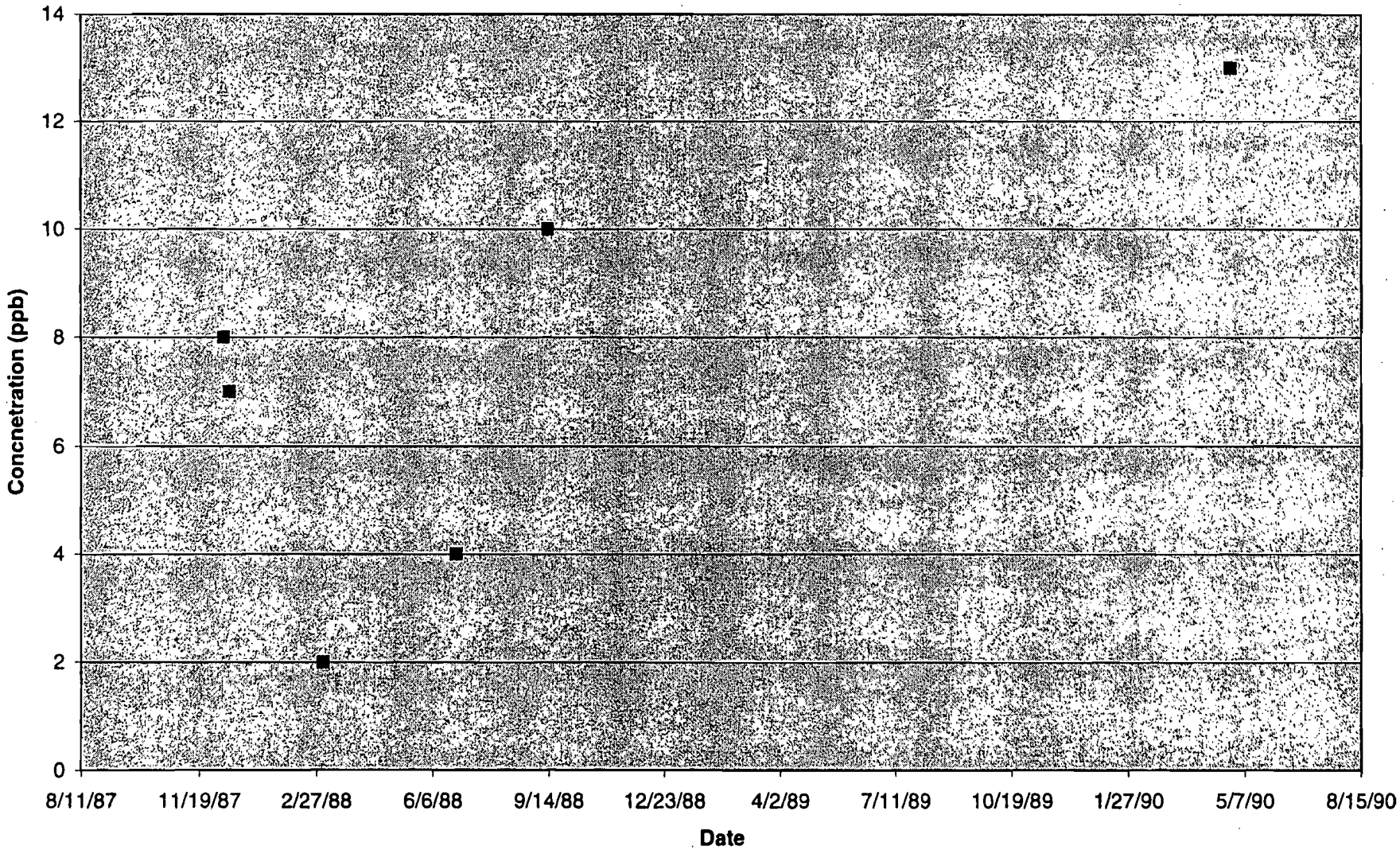

Mag-8
Mag-5
85
Mag-10
Mag-20
Mag-80
Mag-81
Mag-82
Mag-83
Mag-84
0410
0305
0571
0154
0155
P015
WH1
0471
P027
WH2
WH3

D14

# APPENDIX 1

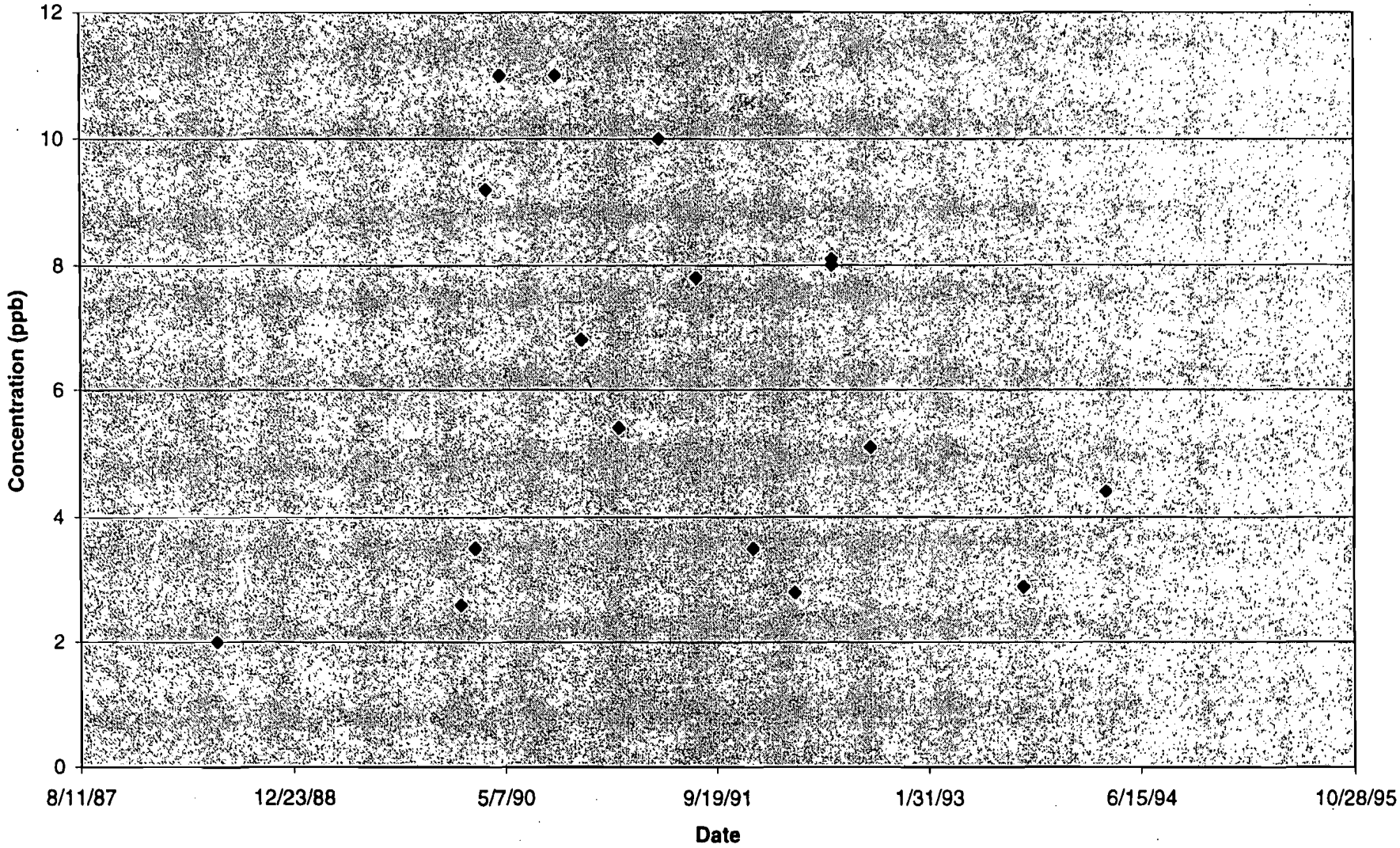
VOC DETECTION

## Methylene Chloride Detections in Groundwater Moinitoring Well 0154

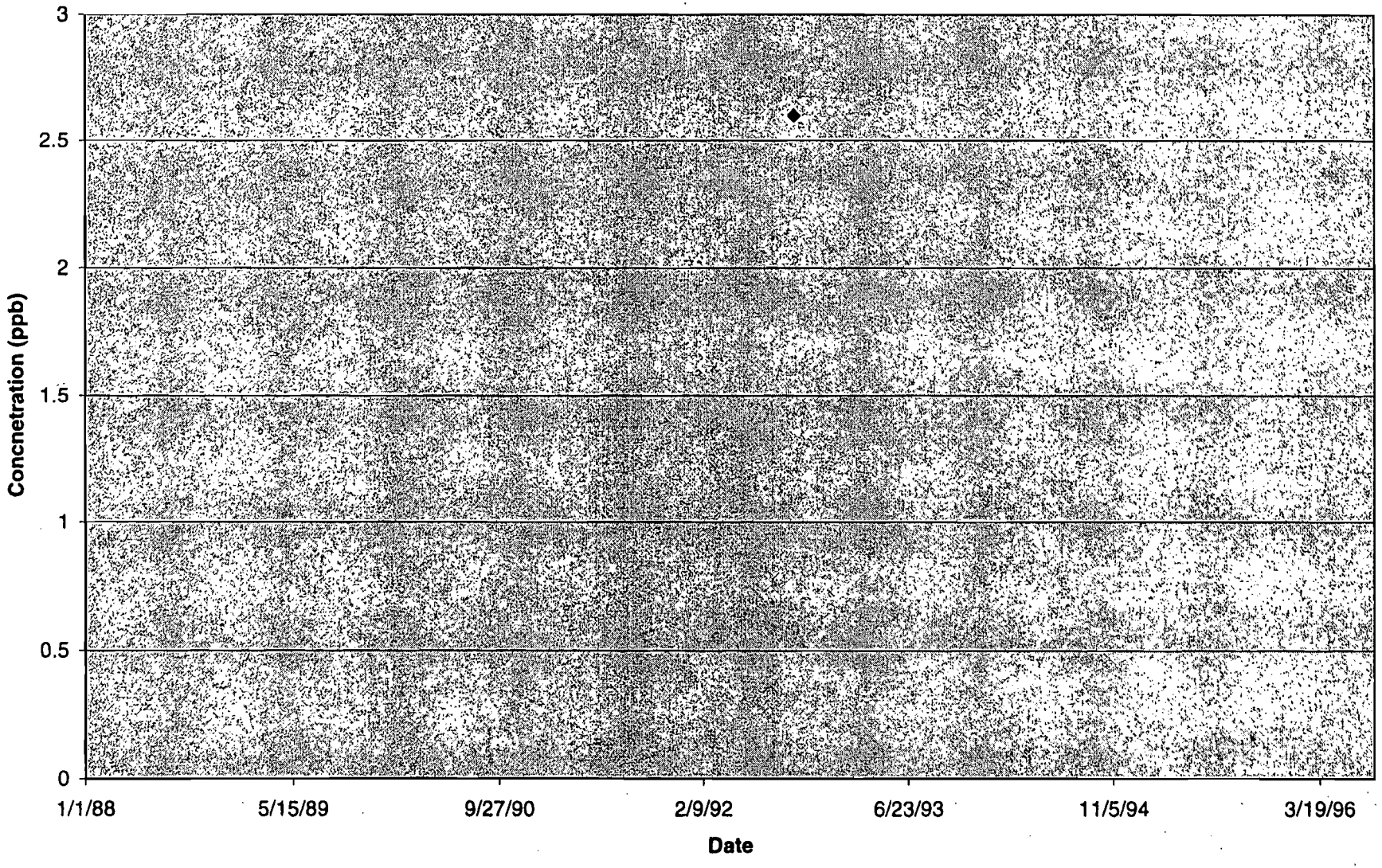



D16

## Trichloroethene Detections in Groundwater Monitoring Well 0154

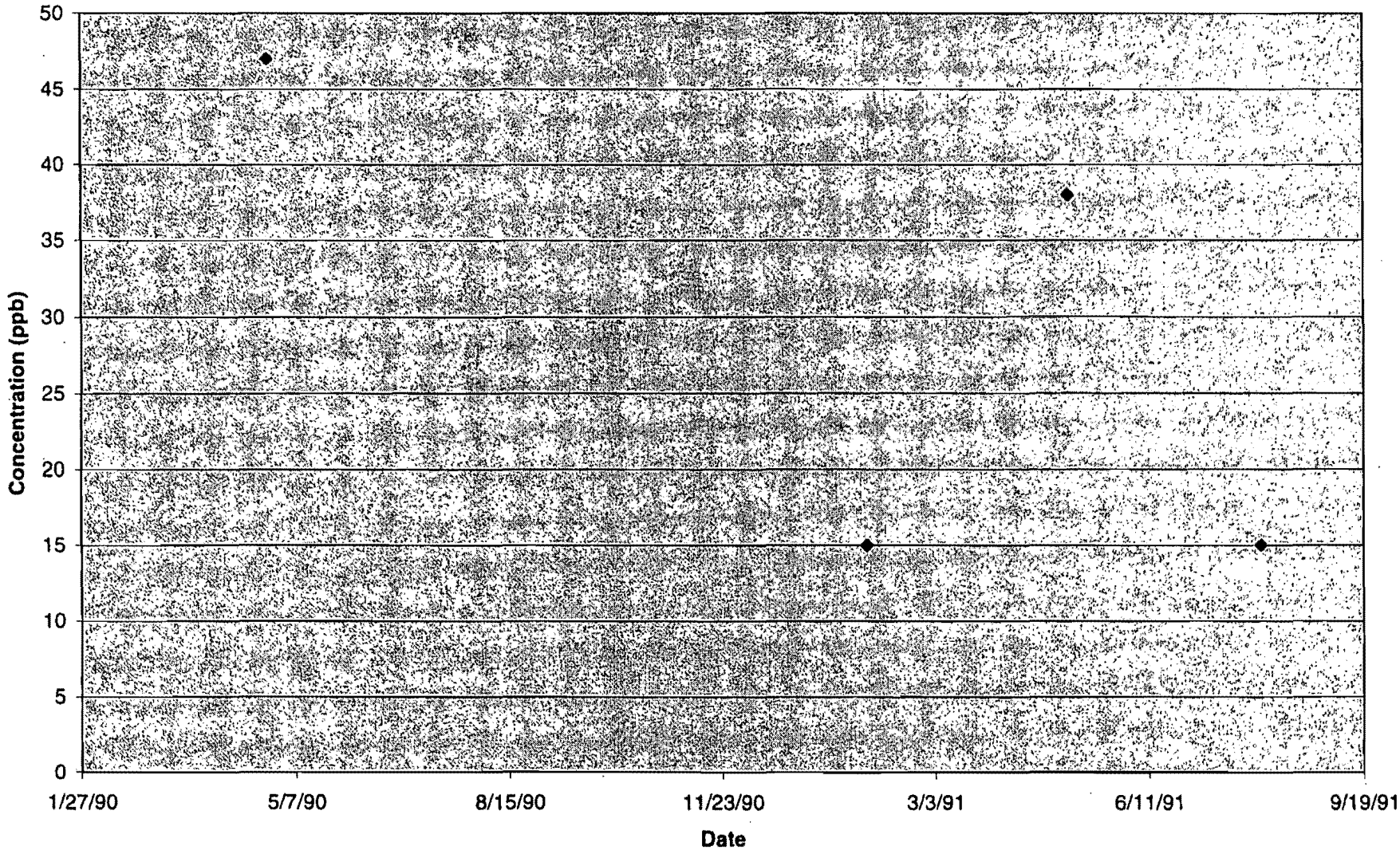


## Vinyl Chloride Detections in Groundwater Monitoring Well 0154

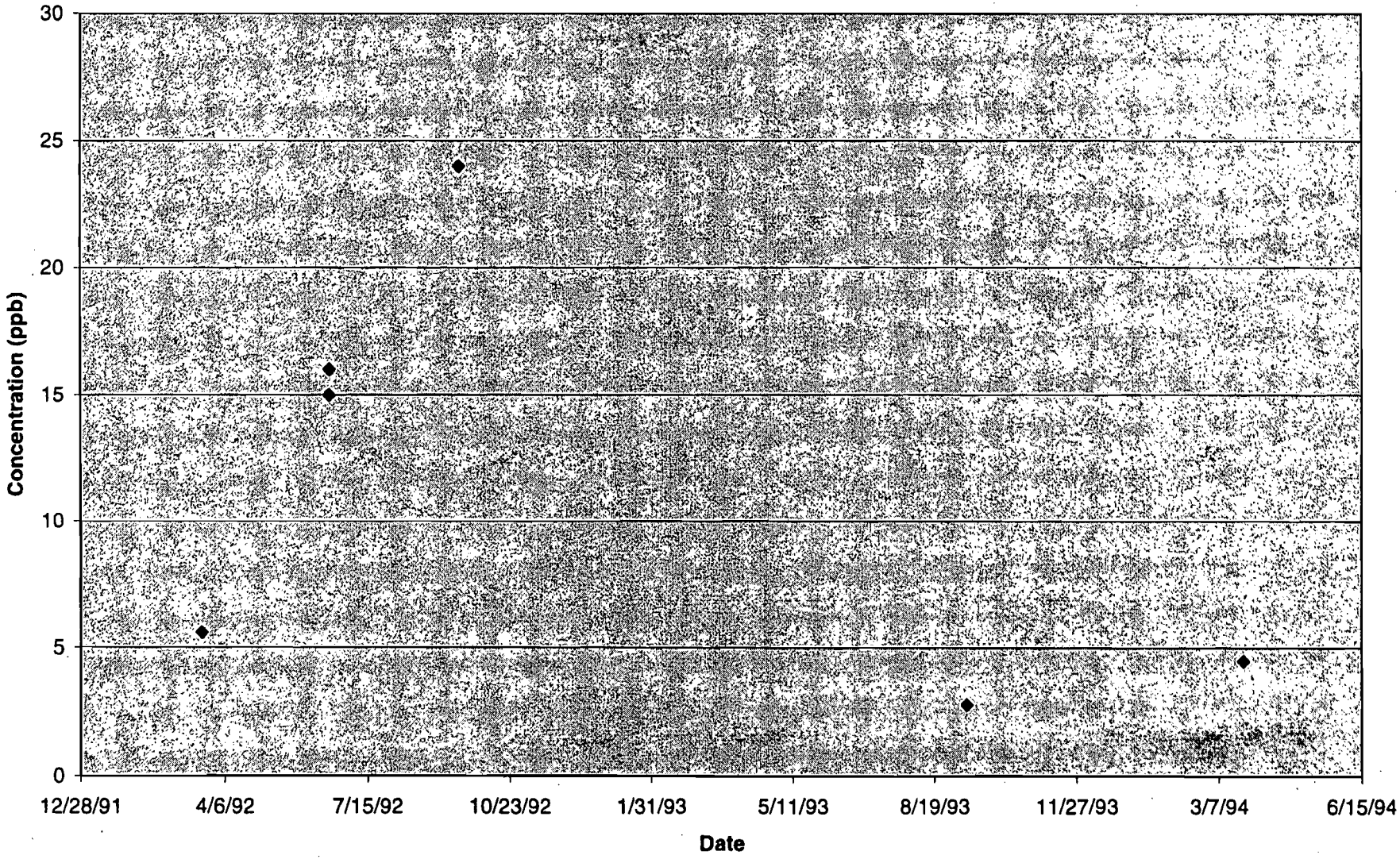



D 16

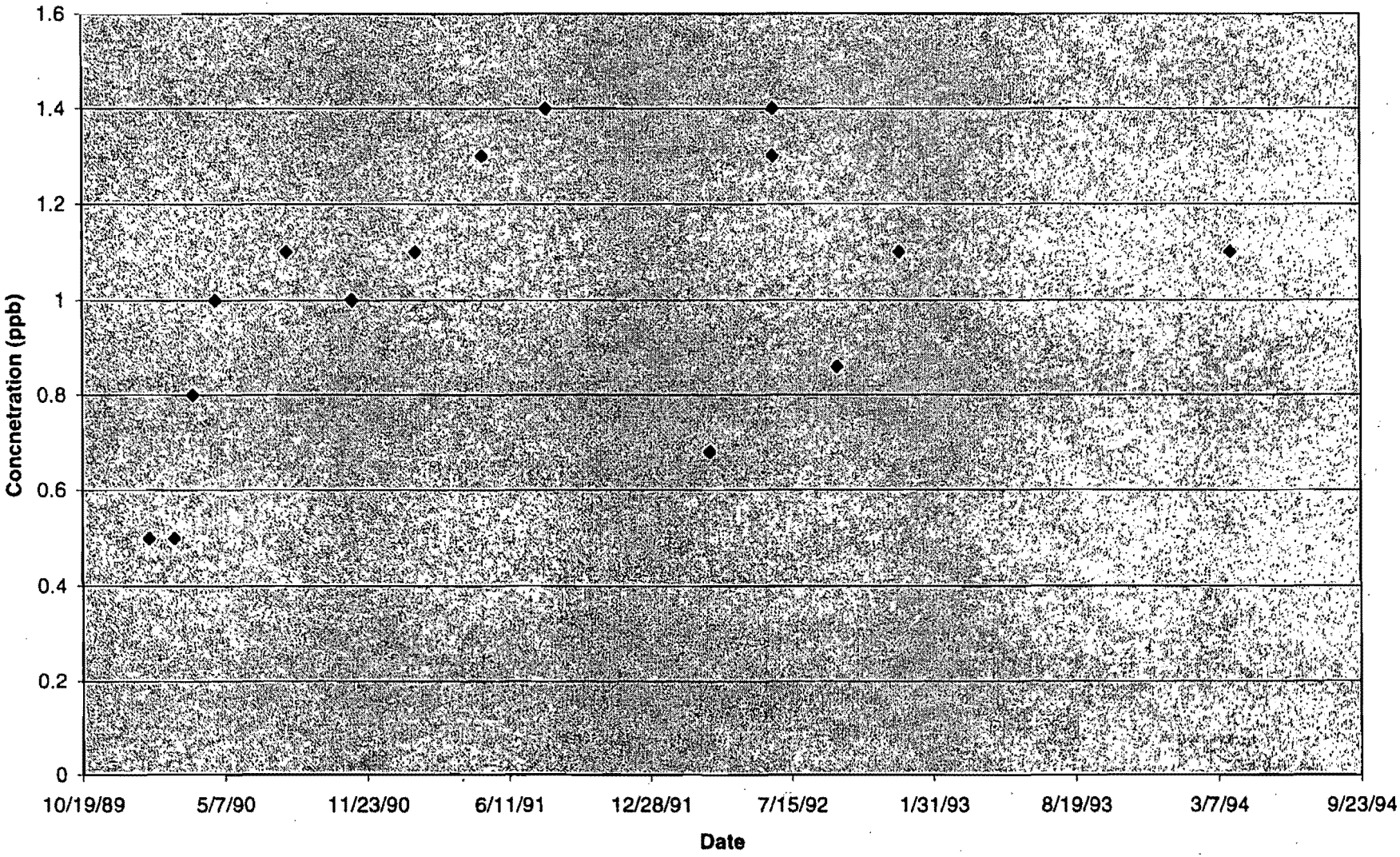
## 1,2- Dichloroethene Detections in Groundwater Monitoring Well 0154



## 1,2-cis-Dichloroethene Detections in Groundwater Monitoring Well 0154

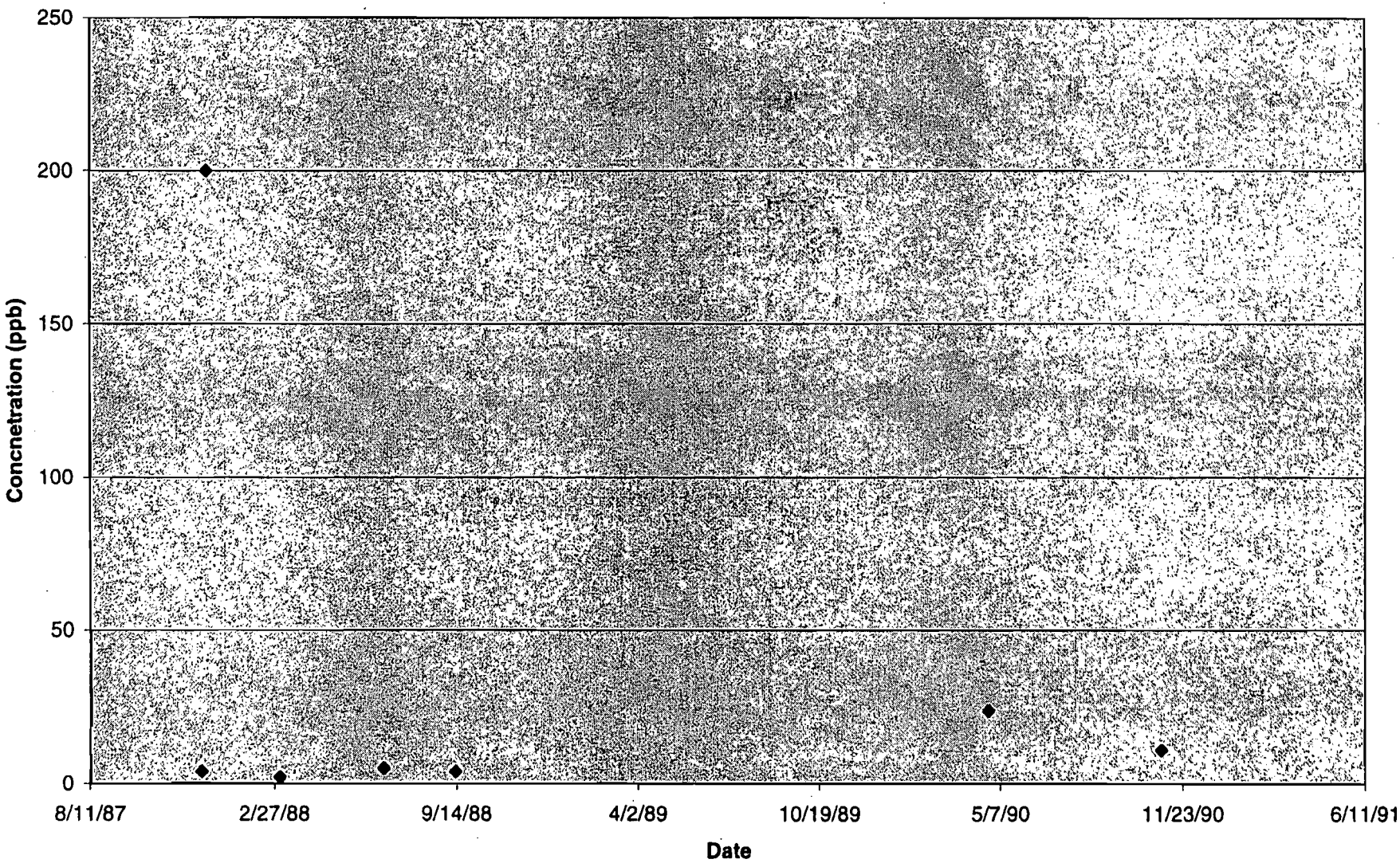


## Tetrachloroethene Detections in Groundwater Monitoring Well 0154



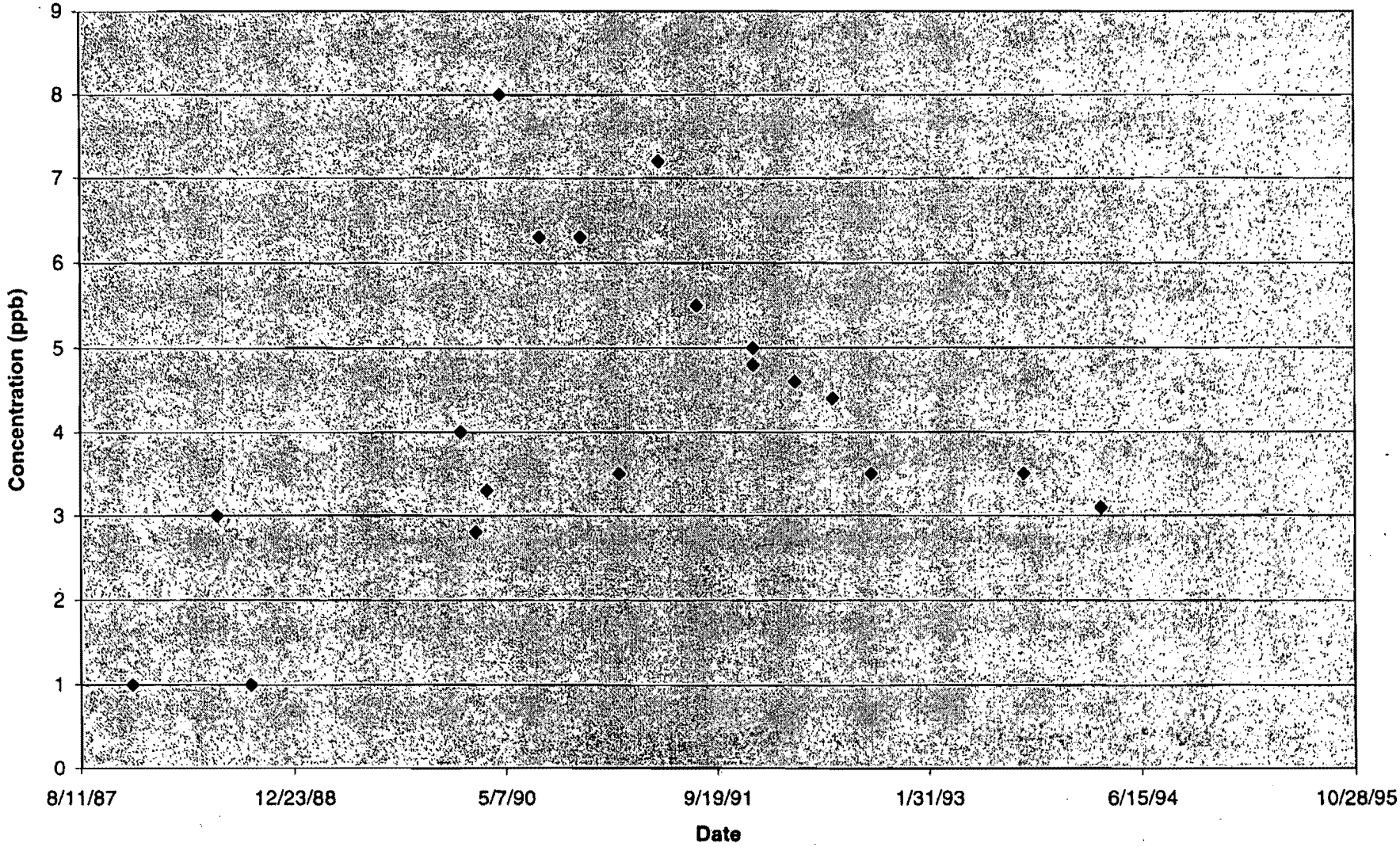

D21

## Methylene Chloride Detections in Groundwater Monitoring Well 0155



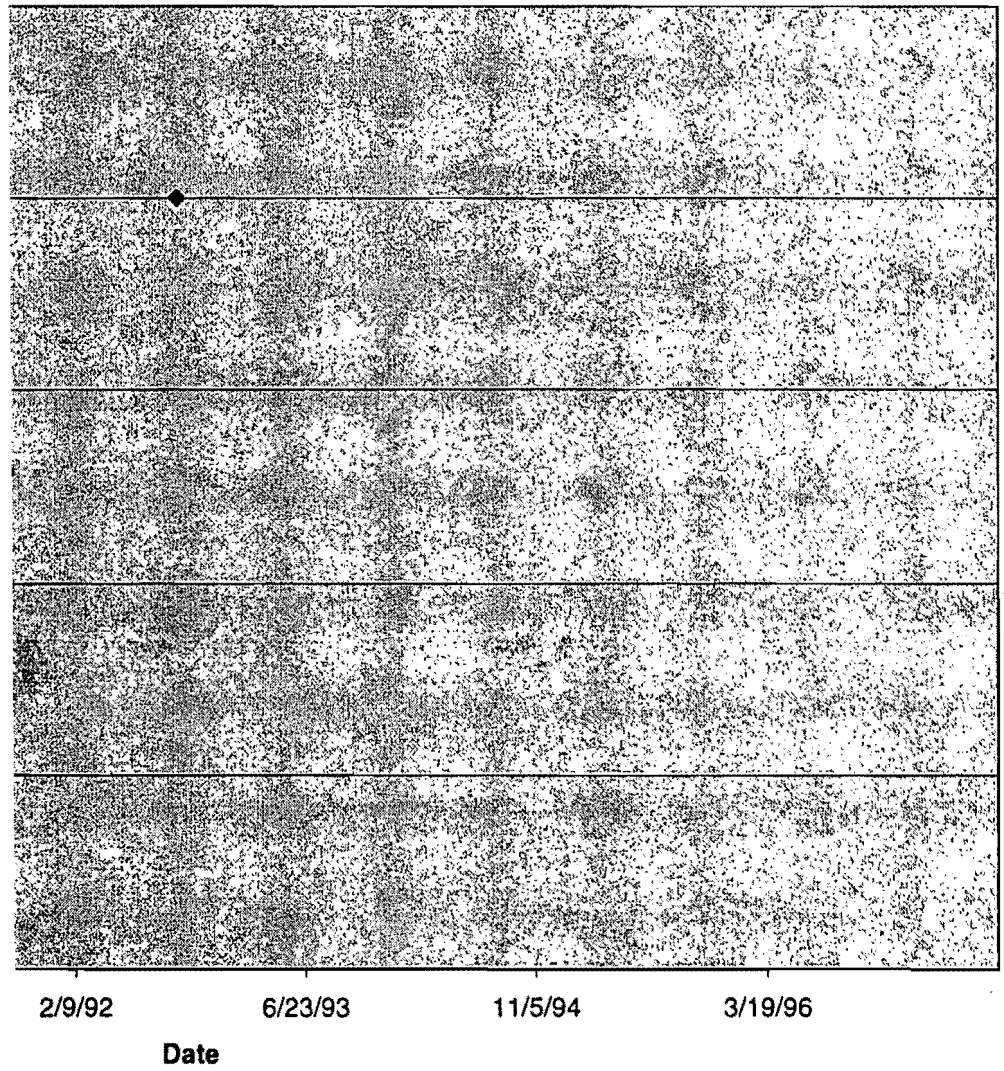

D22

## Trichloroethene Detections in Groundwater Monitoring Well 0155

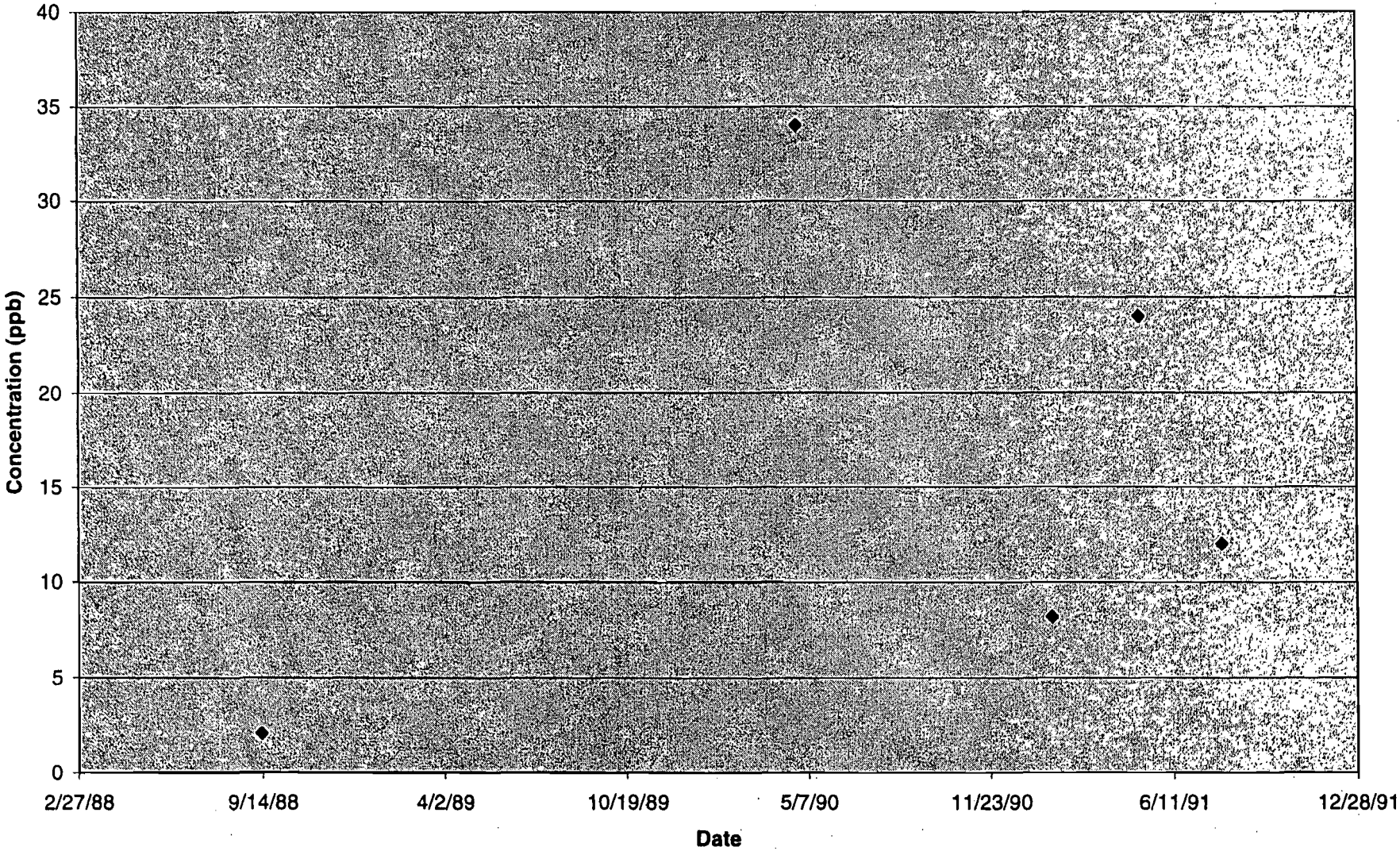



D23

ons in Groundwater Monitoring Well 0155

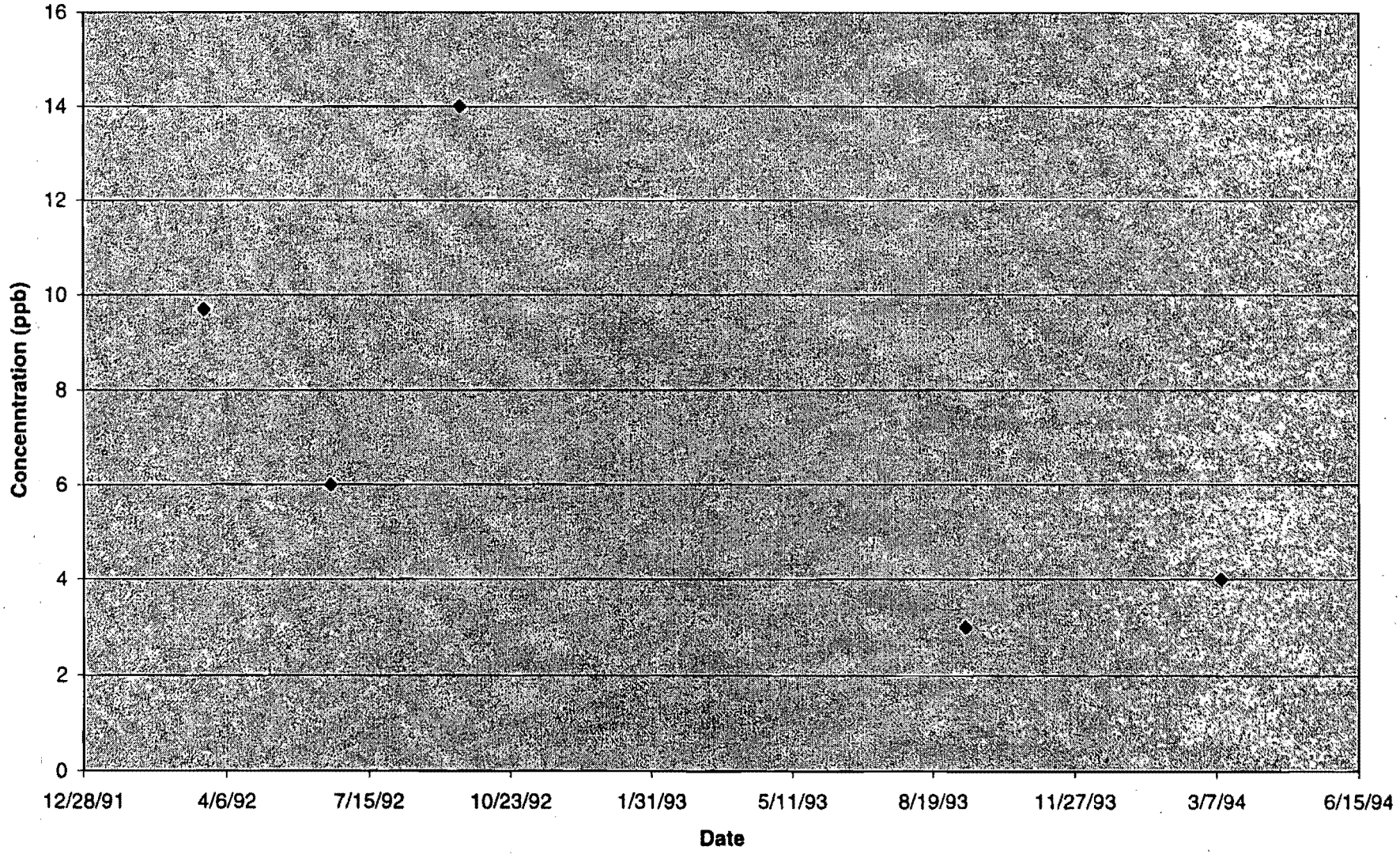


## 1,2-Dichloroethene Detections in Groundwater Monitoring Well 0155

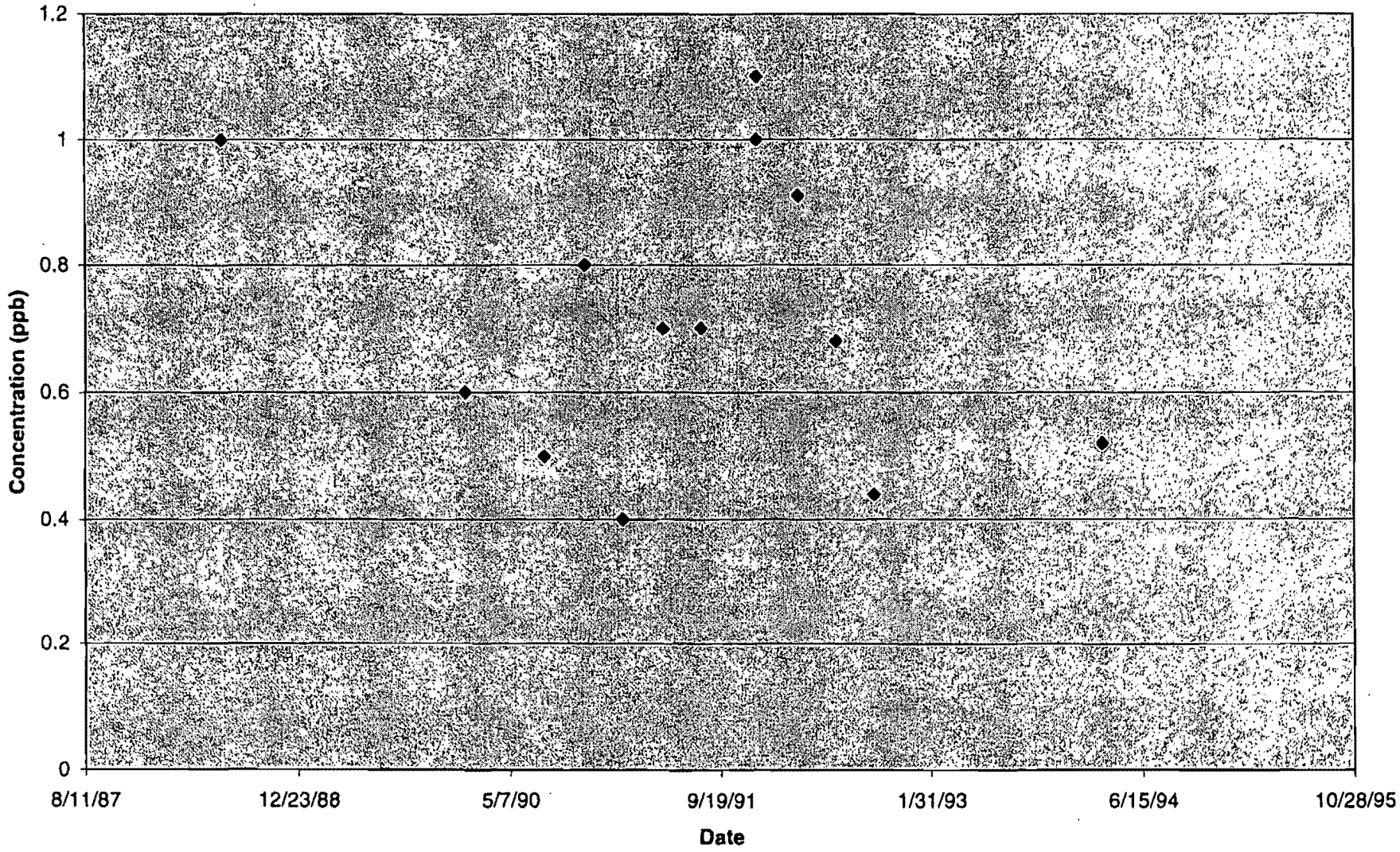



D25

## 1,2-cis-Dichloroethene Detections in Groundwater Monitoring Well 0155

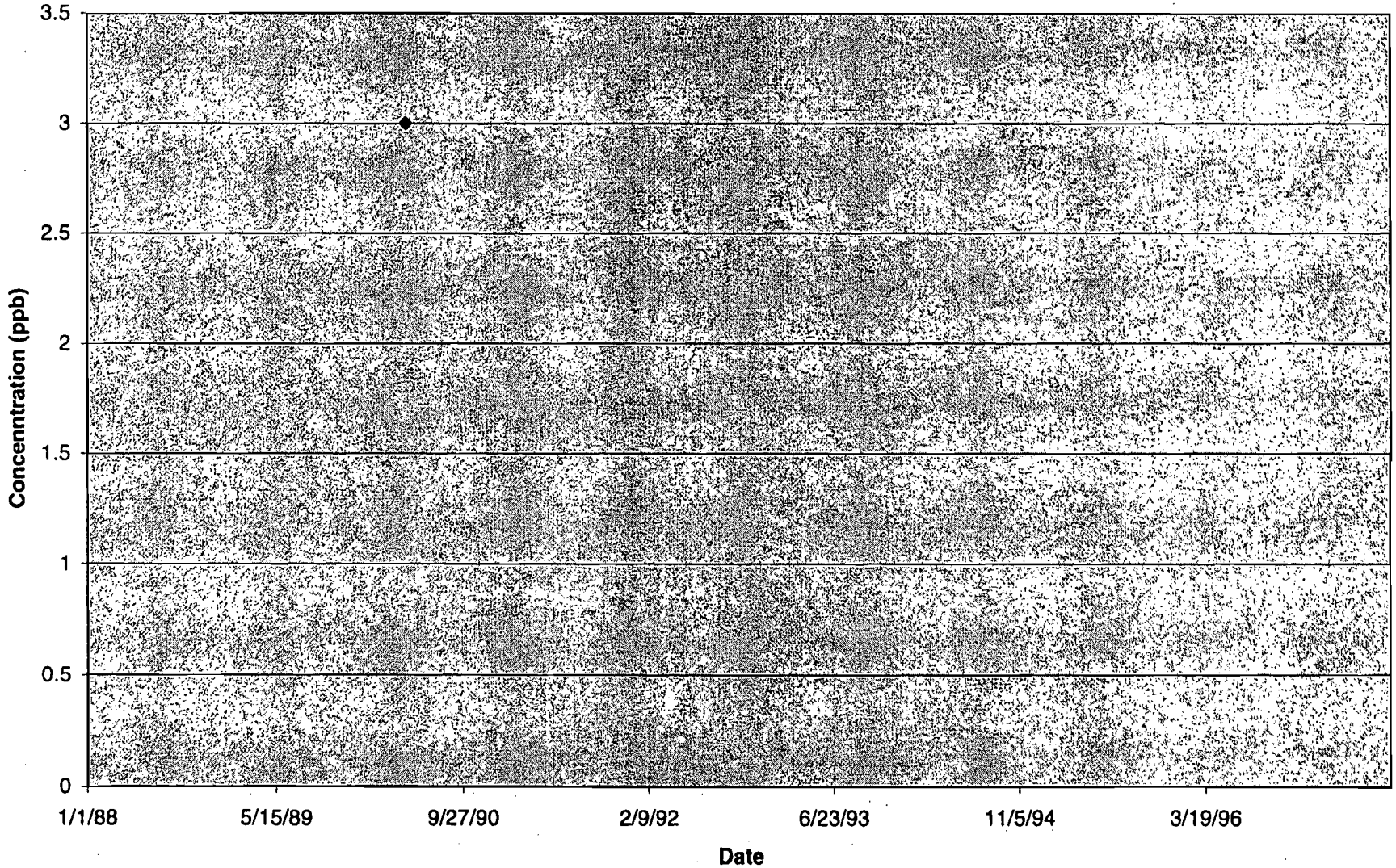


## Tetrachloroethene Detections in Groundwater Monitoring Well 0155



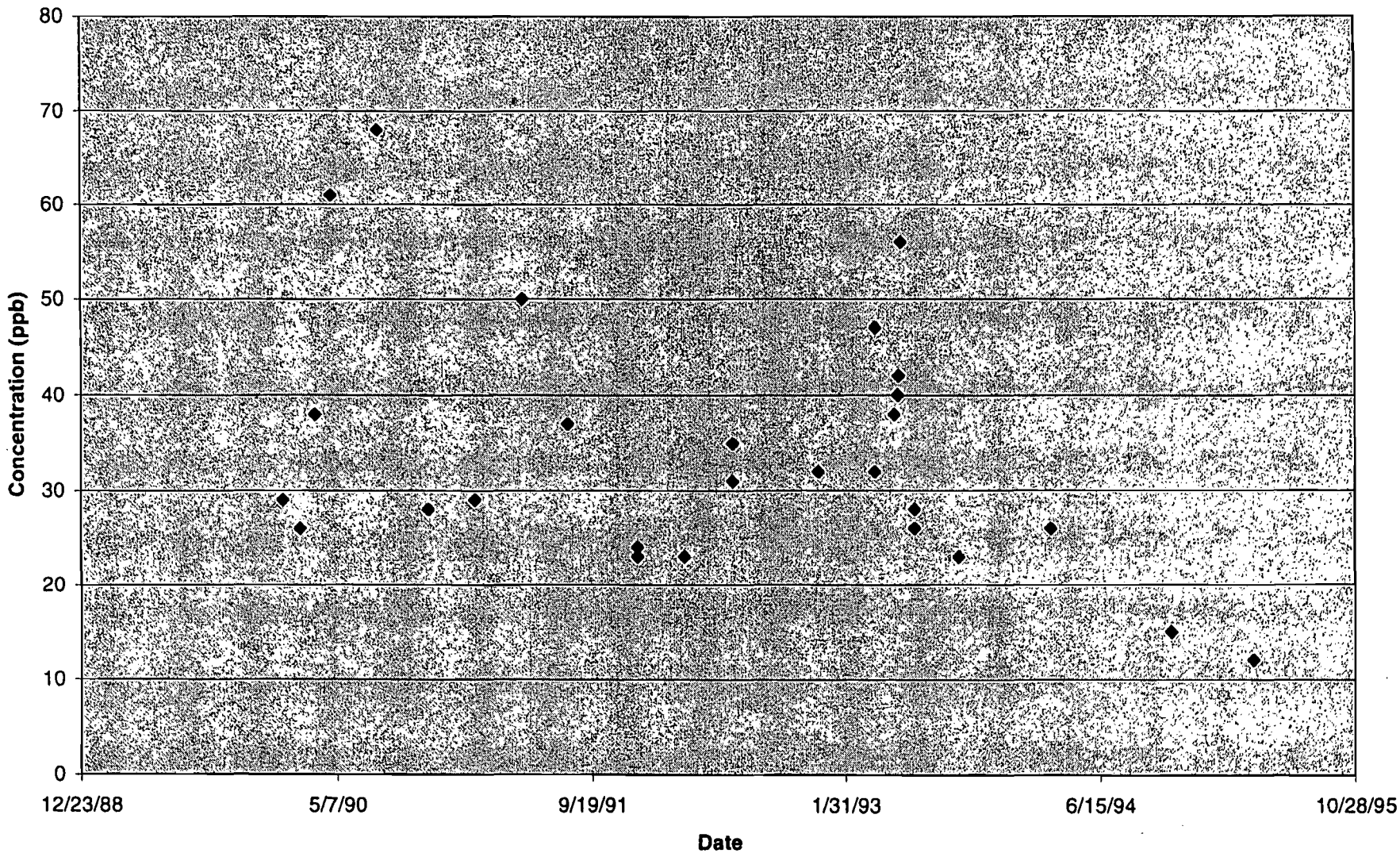

D27

## Methylene Chloride Detections in Groundwater Monitoring Well 0305



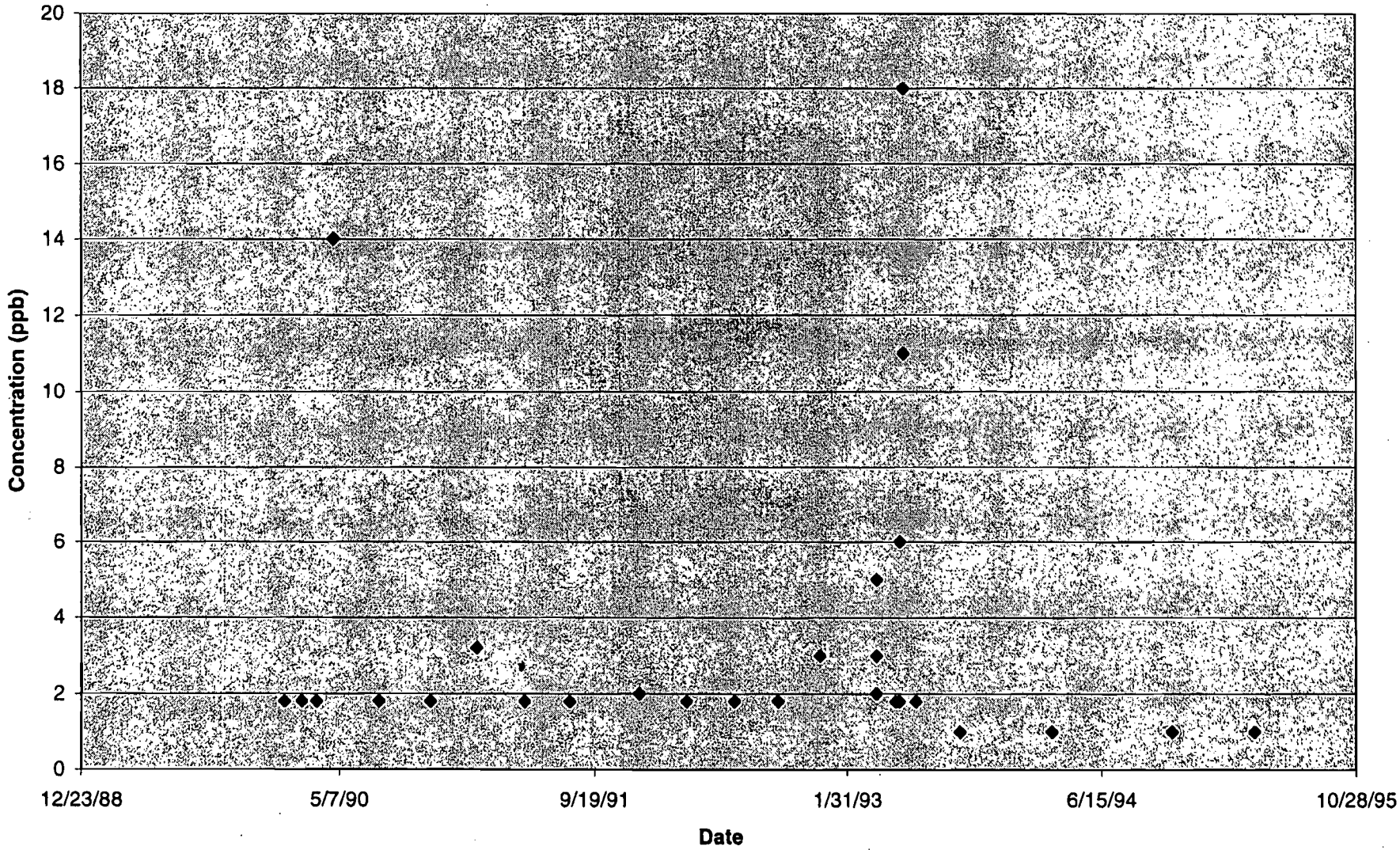

D28

## Trichloroethene Detections in Groundwater Monitoring Well 0305



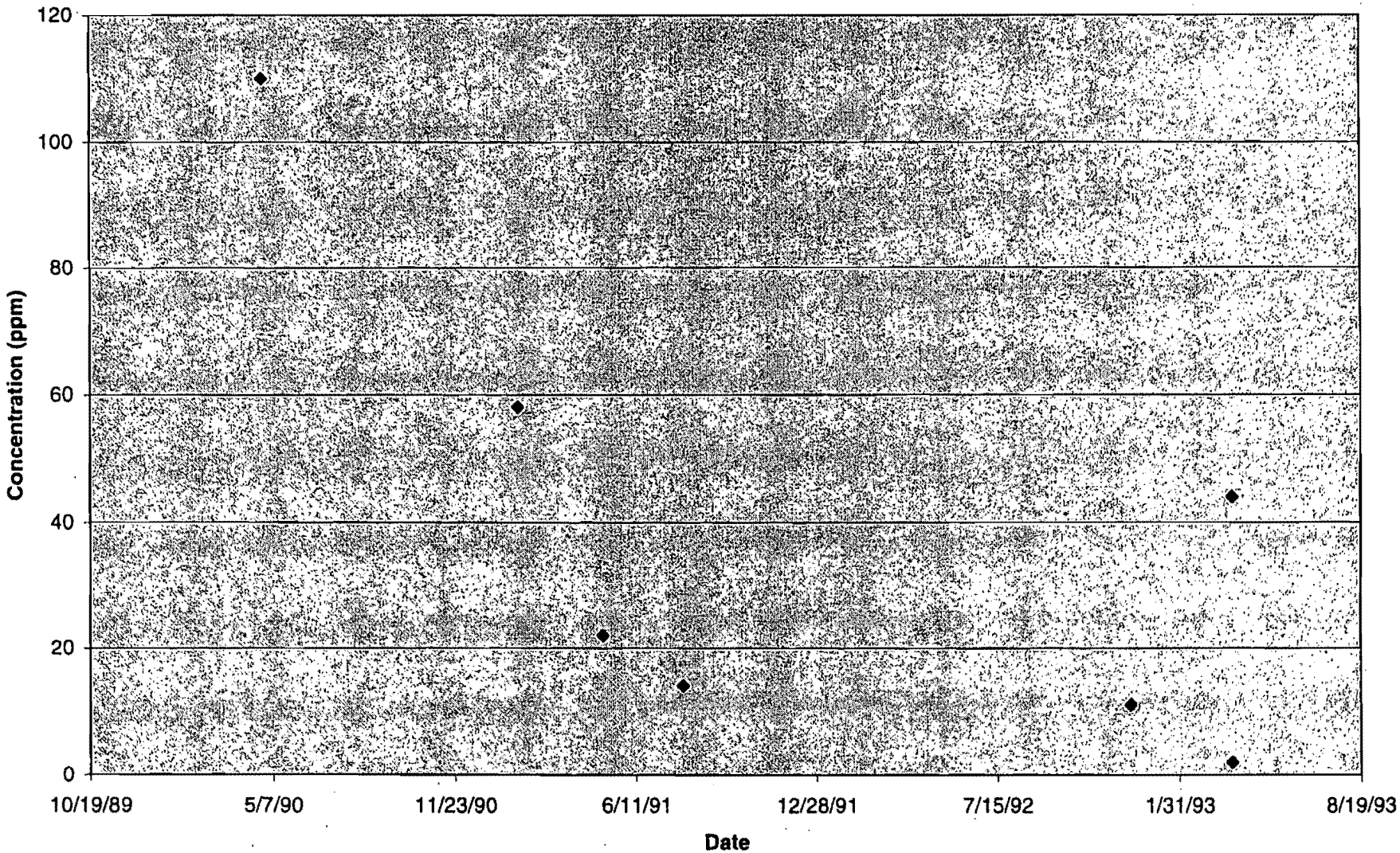

D29

## Vinyl Chloride Detections in Groundwater Monitoring Well 0305



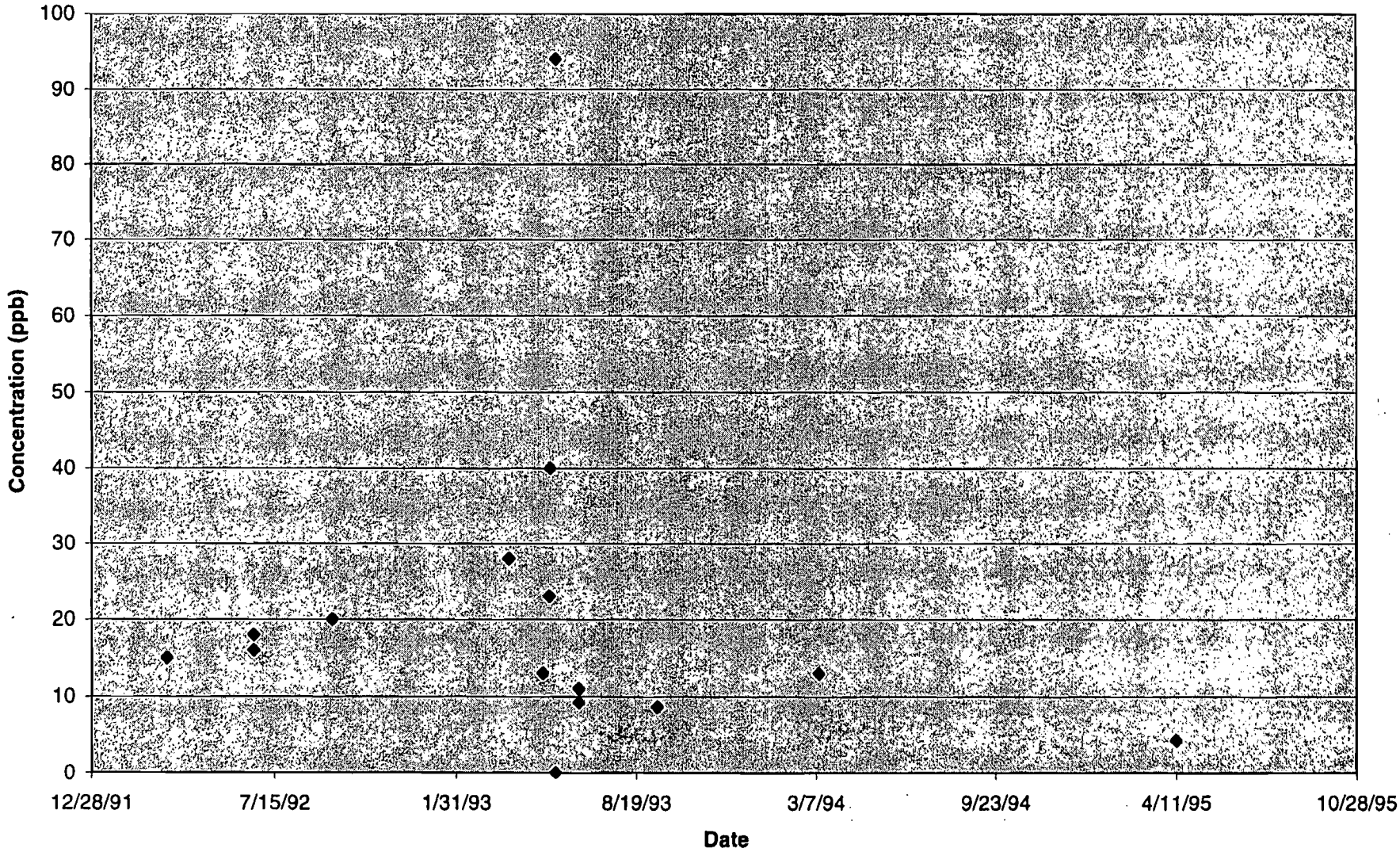

D30

## 1,2-dichloroethene Detections in Groundwater Monitoring Well 0305



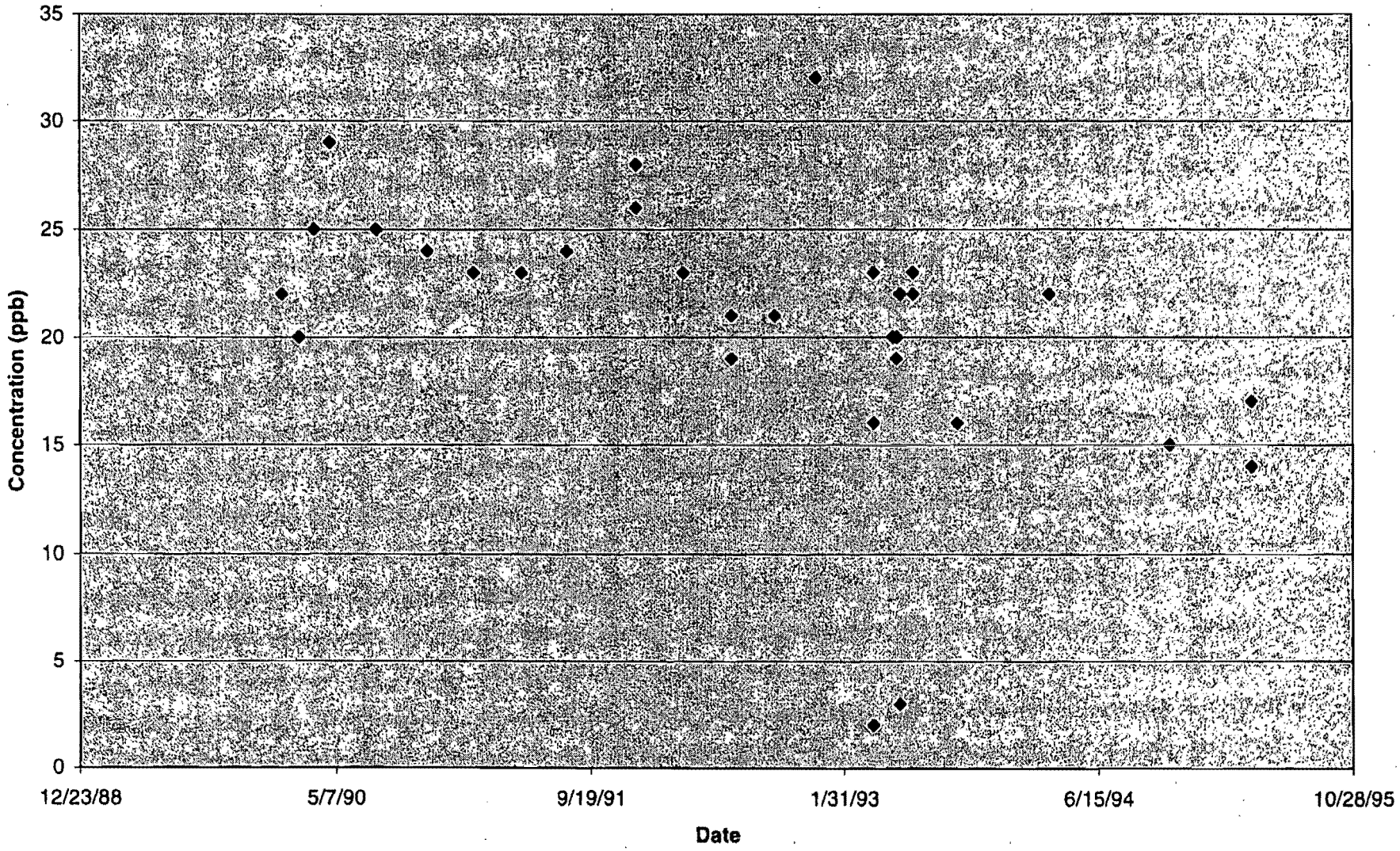

D31

## 1,2-cis-dichloroethene Detections in Groundwater monitoring Well 0305



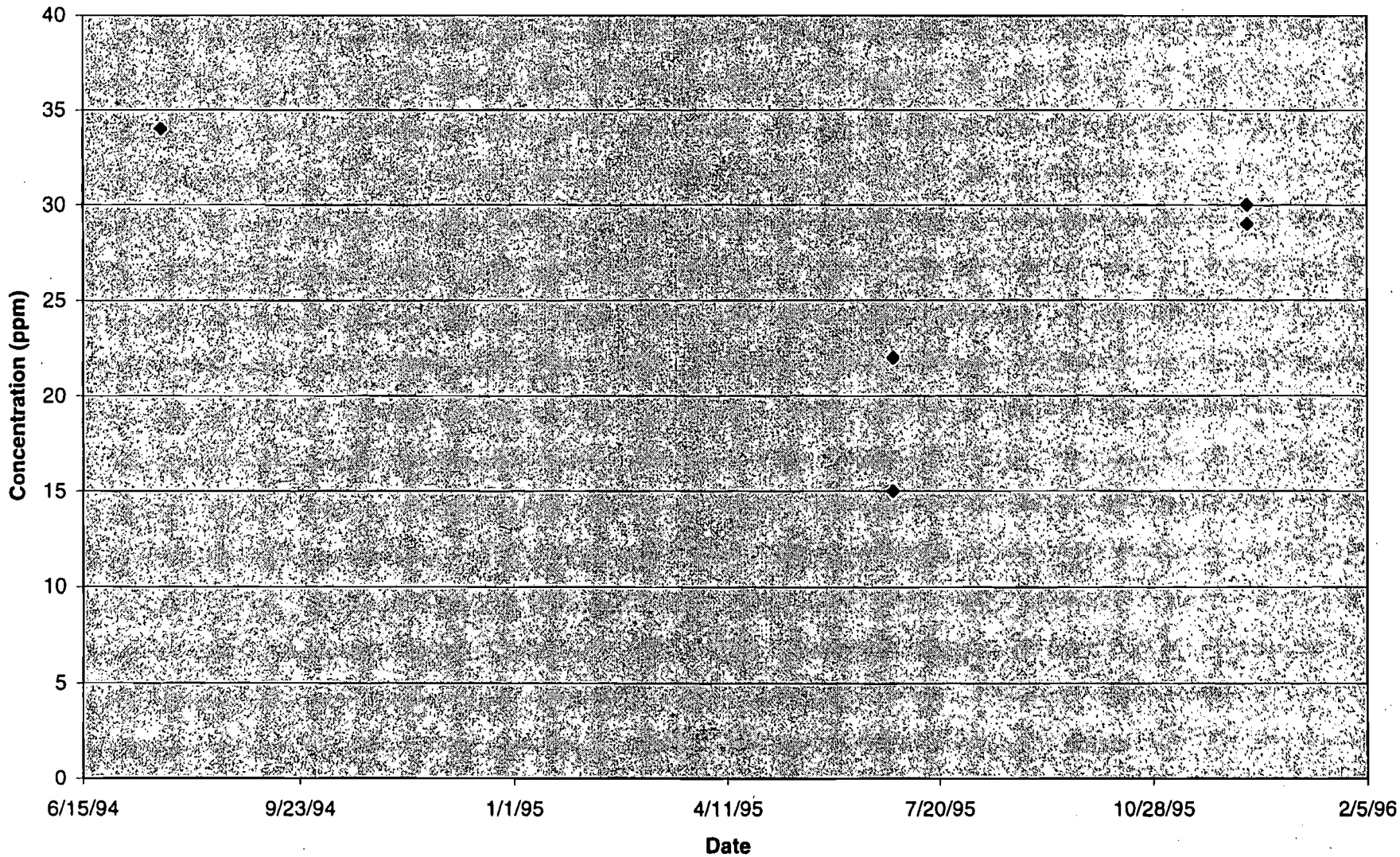

D32

## Tetrachloroethene Detections in Groundwater Monitoring Well 0305



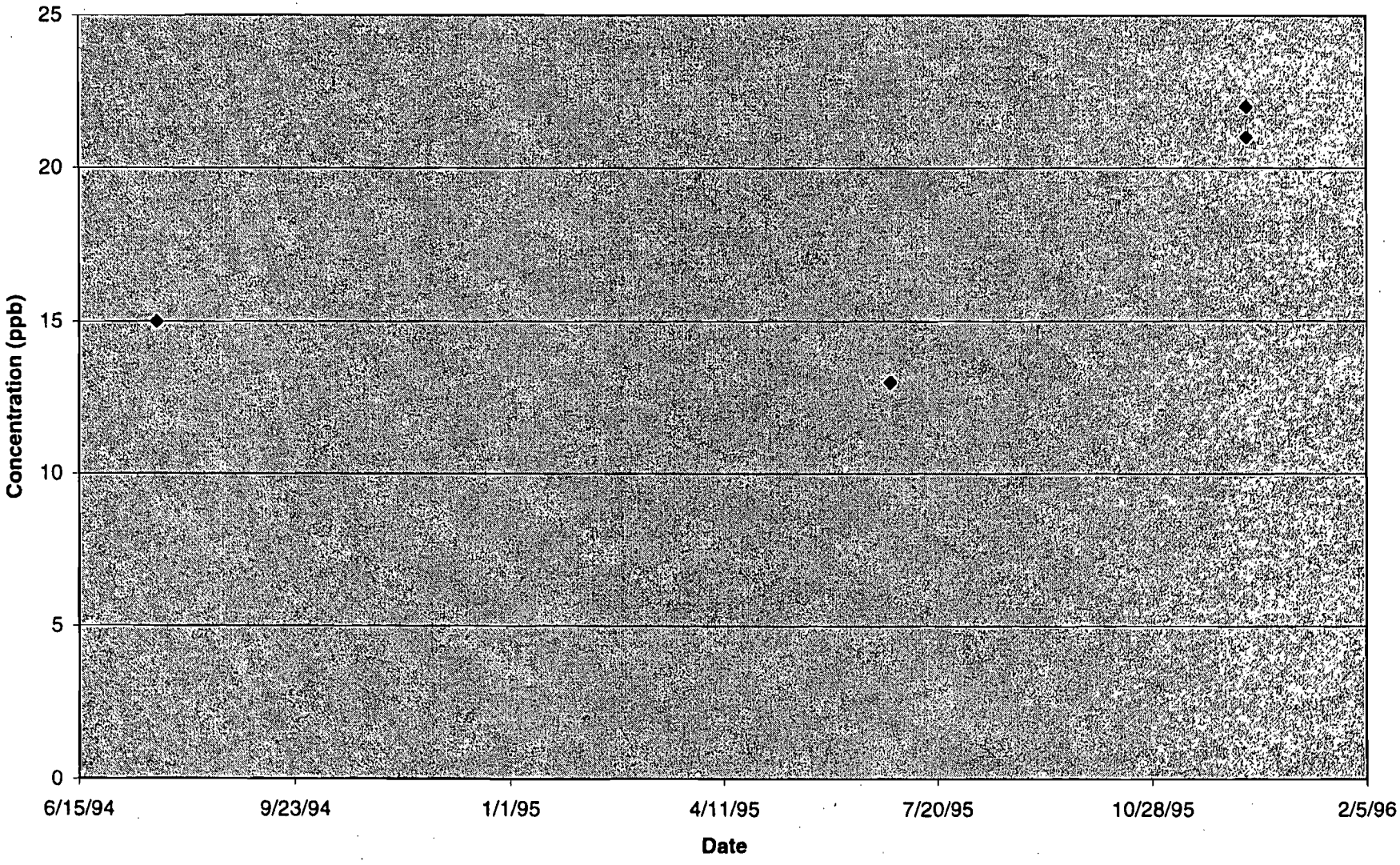

033

## Trichloroethene Detects in Groundwater Monitoring Well 0410



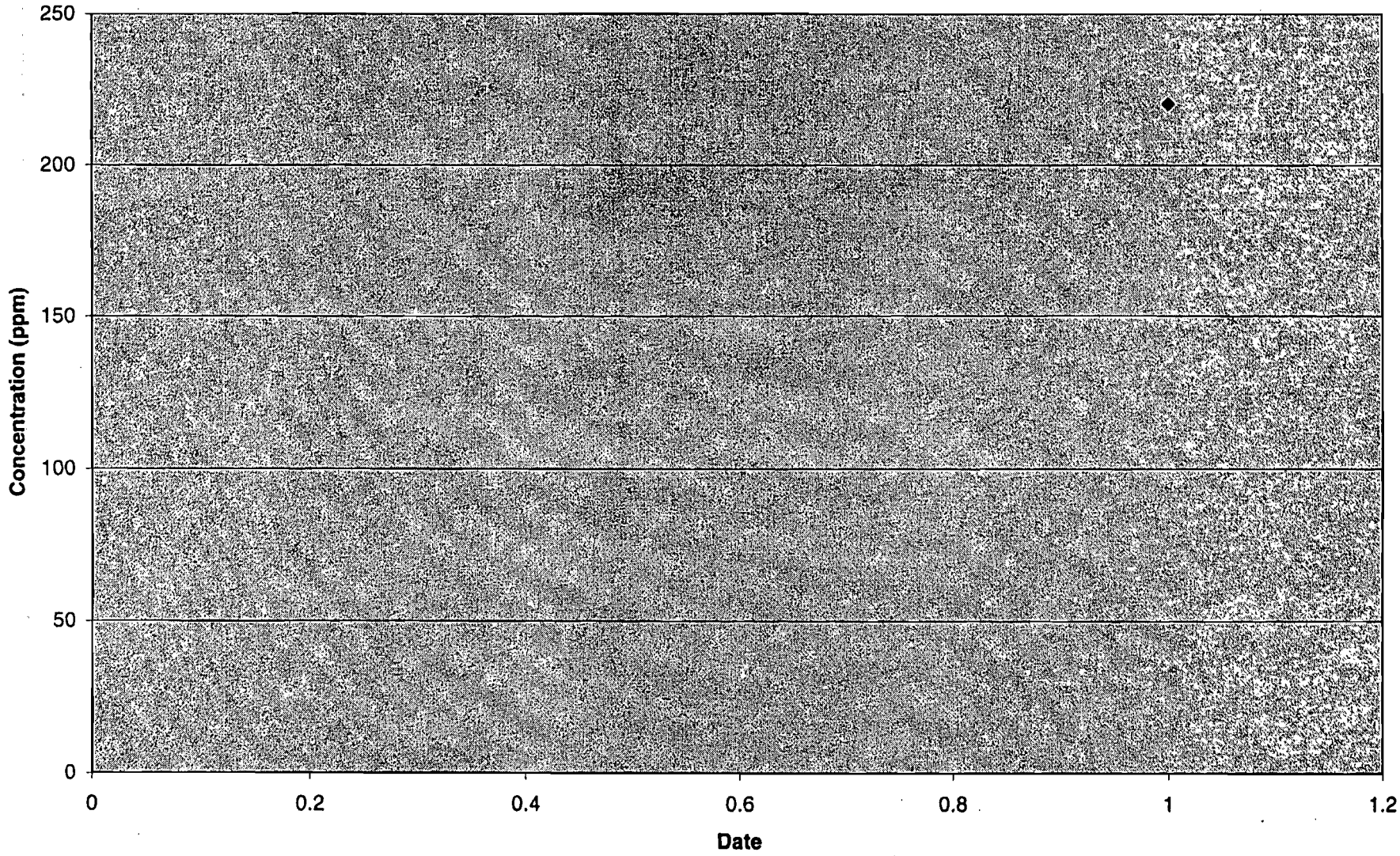

D34

## Vinyl Chloride Detections in Groundwater Monitoring Well 0410



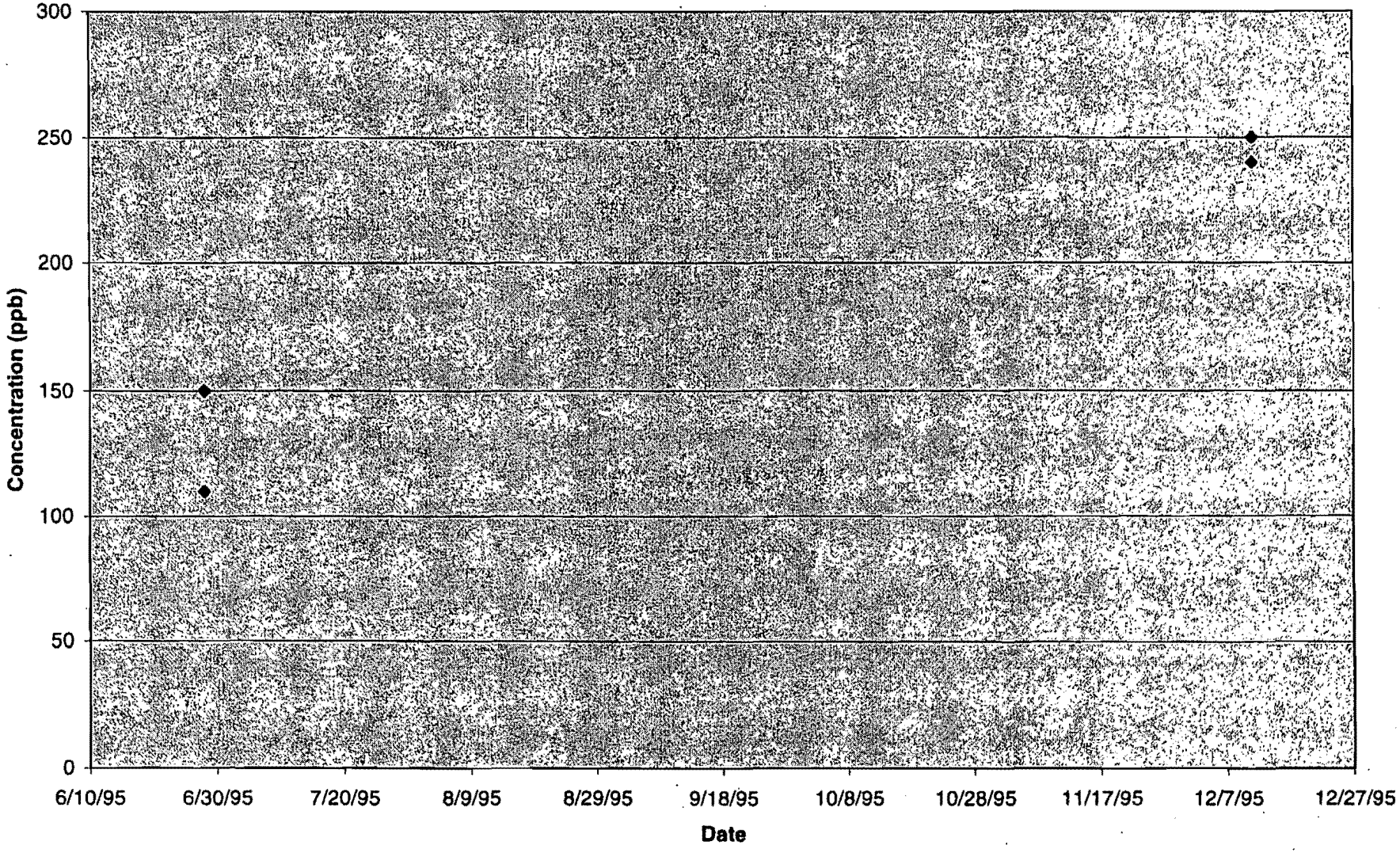

D35

## 1,2-dichloroethene Detections in Groundwater Monitoring Well 0410



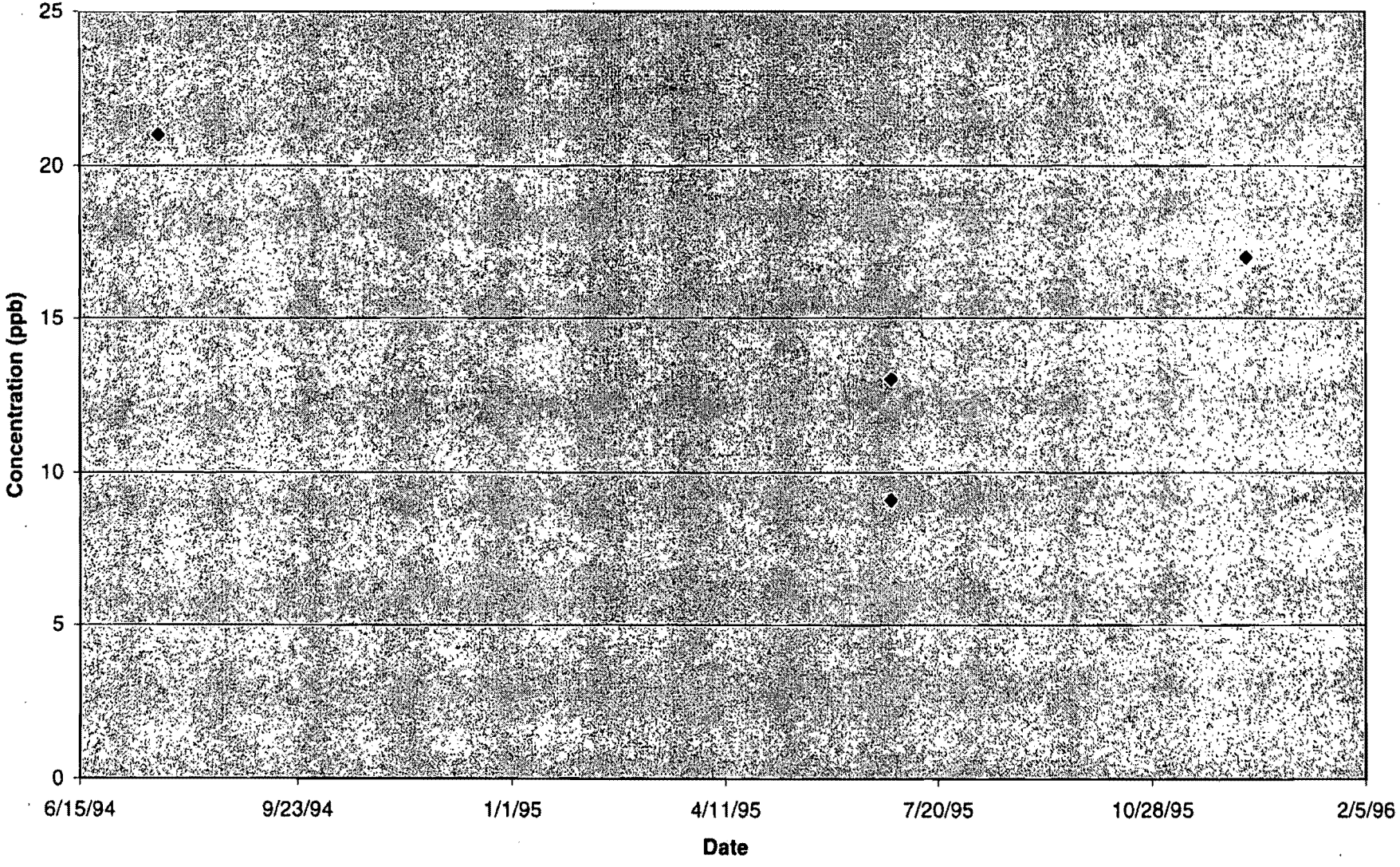

D36

## 1,2-cis-dichloroethene Detections in Groundwater Monitoring Well 0410



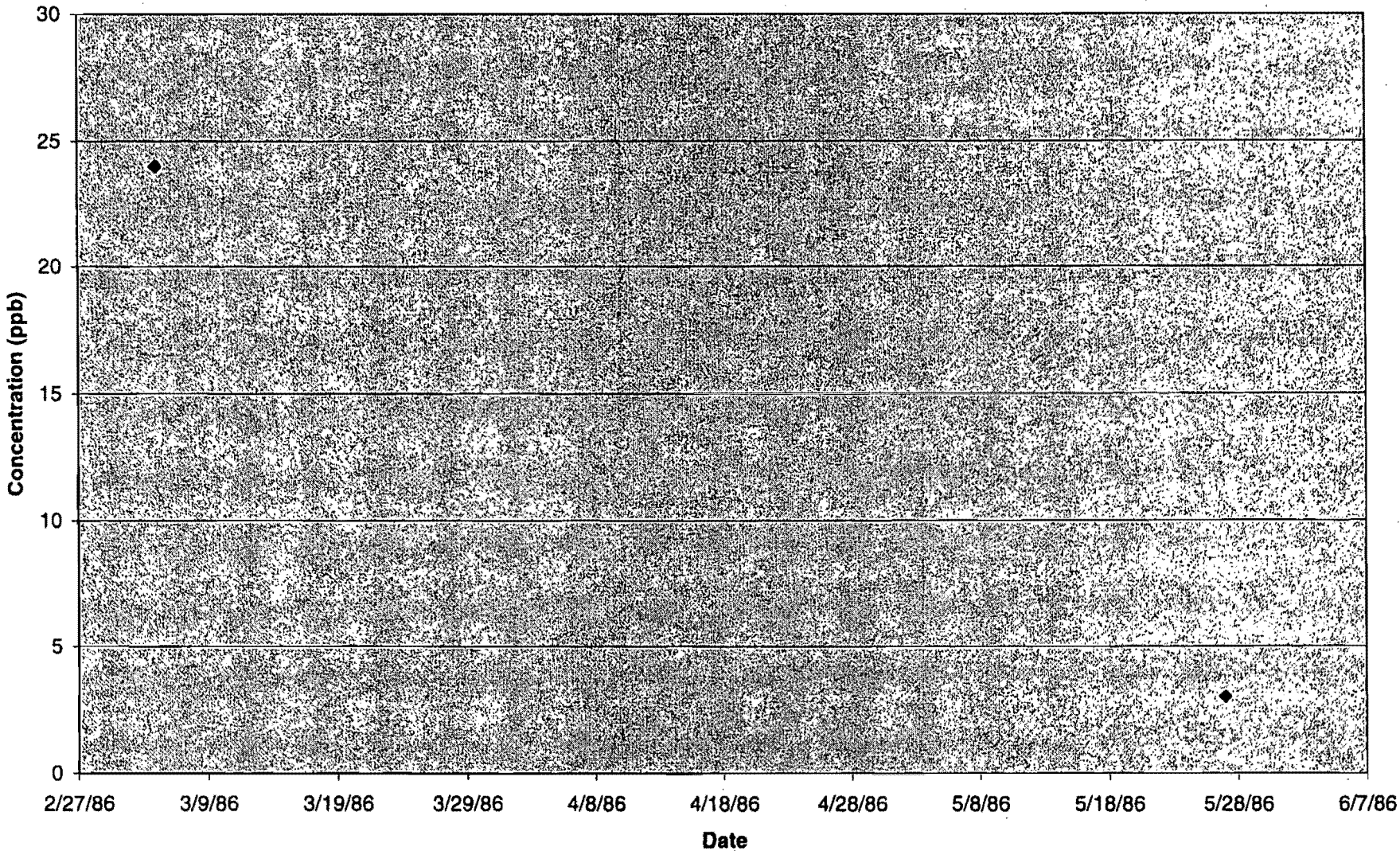

D37

## Tetrachloroethene Detections in Groundwater Monitoring Well 0410

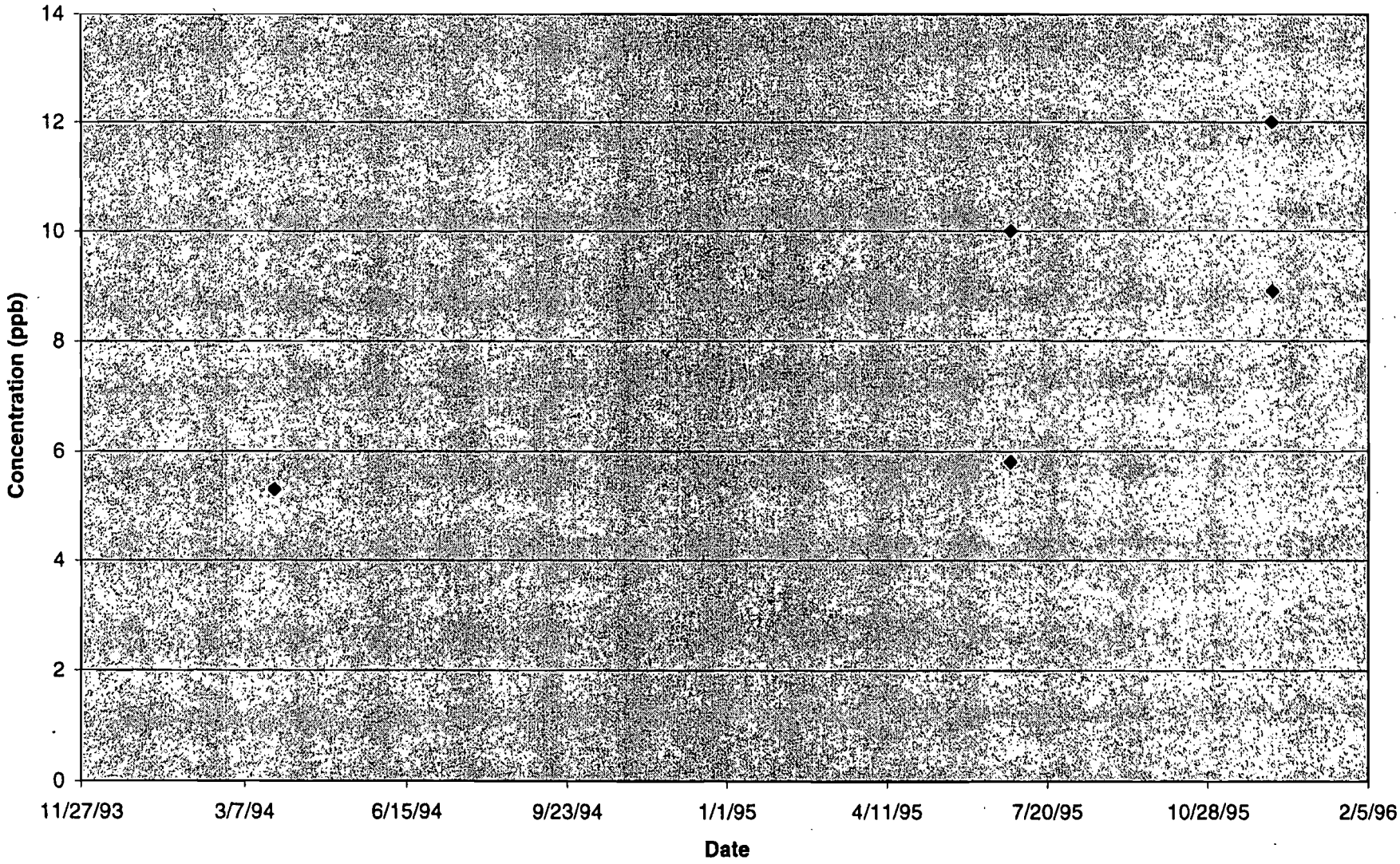



D 38

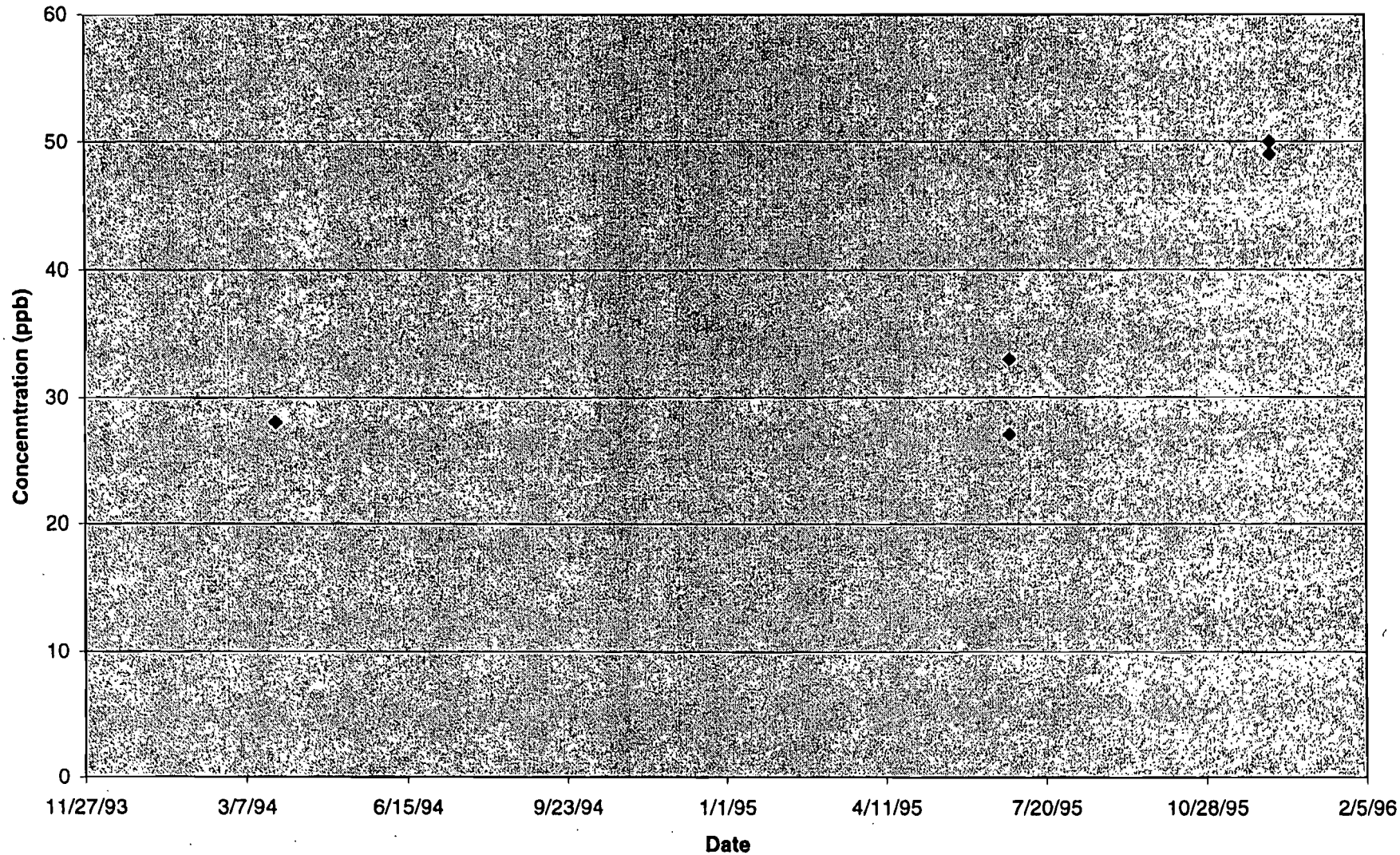
## Methylene Chloride Detections in Well 0571



## Tetrachloroethene Detections in Groundwater Monitoring Well P015

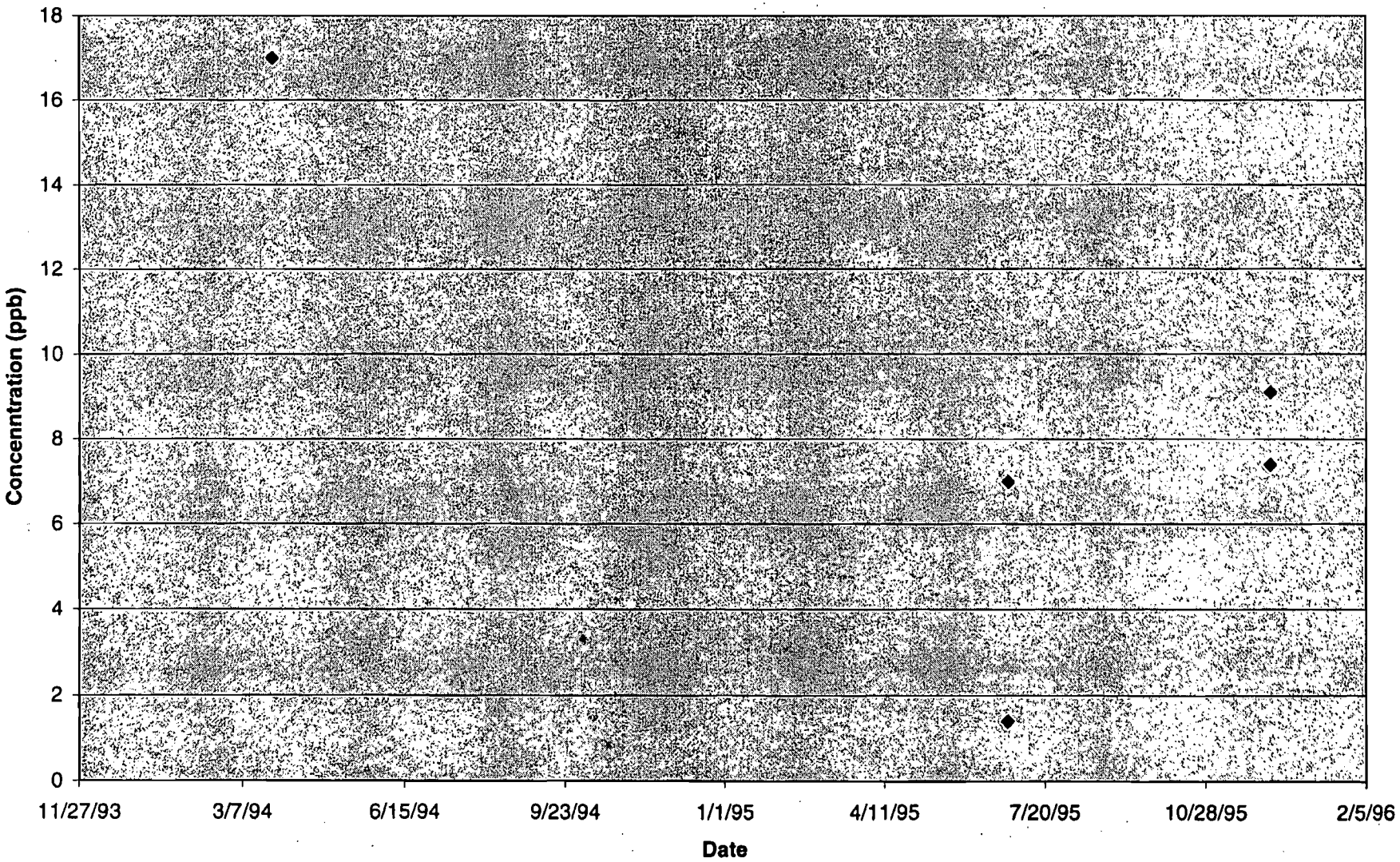


## Trichloroethene Detections in Groundwater Monitoring Well P015

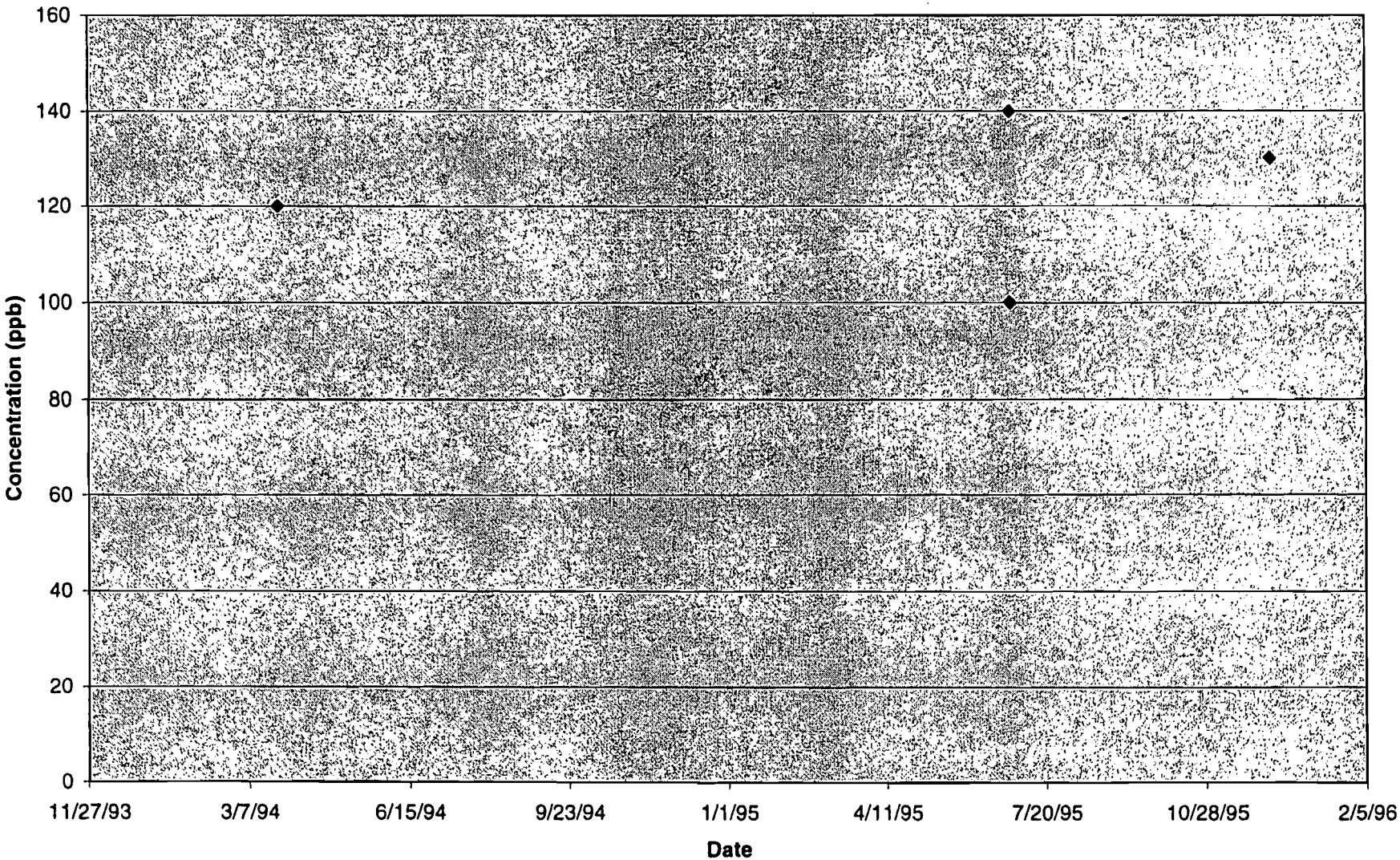



D41

## Vinyl chloride Detections in Groundwater Monitoring Well P015

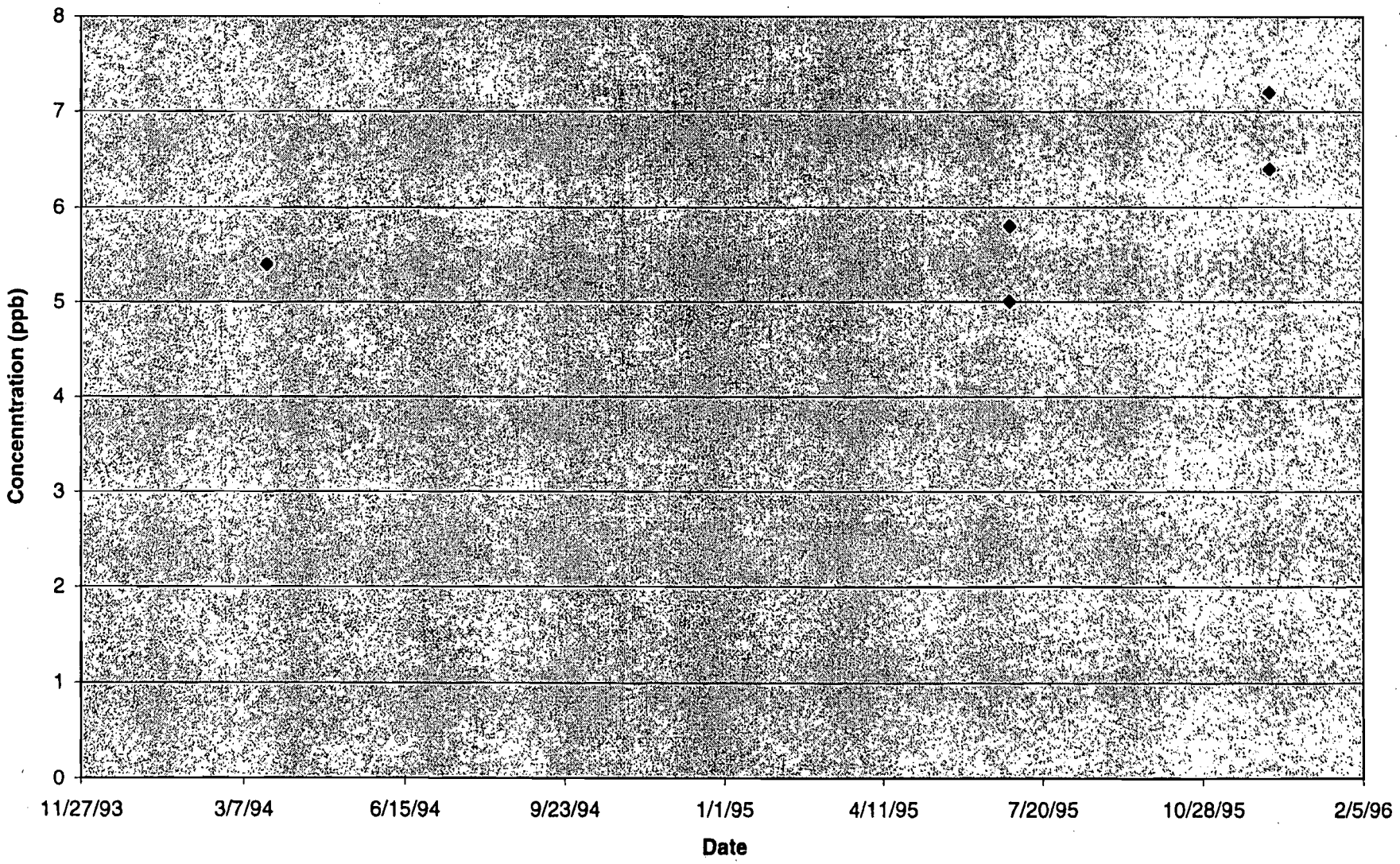


## 1,2-cis-dichloroethene Detections in Groundwater Monitoring Well P015




D43

## Trichloroethene Detections in Groundwater Monitoring Well P027



# APPENDIX 2

GEOLOGIC LOGS OF AFFECTED WELLS AND PIEZOMETERS

| GEOLOGIC LOG | MOUND PLANT | Project Manager William Little | PAGE: 1 of 3 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Company | NORTH STAR DRILLING | Borehole/Well Id | P015 |
| Drilling Method | ROTO SONIC | STATE PLANE COORDINATES | |
| Drilling Fluid | NONE | North (ft) | 596352.10 |
| Date Started | 10/26/92 | East (ft) | 1495271.70 |
| Date Completed | 10/26/92 | Ground Surface Elev. (ft) | 734.99 |
| Logged By | ERIC LARSEN | Top of Casing Elev. (ft) | 737.52 |
| Checked By | TOM THARP | Total Depth (ft) | 57.0 |
| Comments: | Piezometer located within the north-central portion of the spoils area, directly east of Mound production well 0071, and southeast of monitoring wells 0305/0309. | | |

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Casing: PVC, 2" | | | FL | 0.0 to 10.0' - Dark yellowish brown (10YR 4/4) silt, clay, sand, and gravel, soft to firm, variably proportioned, occasional zones of large cobbles and boulders, dry. Fill. |
| | | | | Backfill: Cement and bentonite grout | | | | |
| 5 | O | GC | 0005 | | | | | |
| 10 | O | GC | 0010 | | | | | 10.0 to 20.0' - Dark grayish brown (2.5Y 4/2) clayey silt, slightly firm, some fine to medium gravel, boulder at 13.1', moist. Fill. |
| | O | GC<br>GC | 0014<br>1014 | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 49.20 | 11:55 | 10/26/92 |
| ▼ | 46.92 | | 11/24/92 |

WESTON

D46

# GEOLOGIC LOG

**MOUND PLANT**

Project Manager: William Little



Borehole/Well Id: P015

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 20 | O | GC | 0020 | Casing: PVC, 2" | | | FL | 20.0 to 25.0' - Dark gray (5Y 4/1) clay and silt, sticky, soft, some fine to medium gravel, minor sand, pockets of sludge, scattered wood fragments, moist. Fill. |
| | O | GC | 0022 | | | | | |
| 25 | | | | Backfill: Cement and bentonite grout | | | TI | 25.0 to 40.0' - Brown (10YR 4/3) sandy gravelly silt, soft, very fine to fine grained sand with a few very coarse grains, very fine gravel with scattered very coarse fragments, roots, minor clay content, occasional limonite/hematite staining, dry. Till. |
| 30 | | | | | | | | |
| | O | GC | 0034 | | | | | |
| 35 | | | | | | | | |
| 40 | | | | Seal: Bentonite chips | | | GM-GP | 40.0 to 50.3' - Yellowish brown (10YR 5/4 to 5/6) silty, sandy gravel, soft, very fine to very coarse grained sand, very fine to very coarse gravel, many small to medium cobbles, poorly sorted, minor pockets of clay, increasing in fine to medium gravel from 48.8' to 50.3', damp, wet at 48.0', saturated at 49.2'. Outwash. |
| | | | | Filter Pack: 20/40 quartz sand | | | | |
| 45 | O | GC | 0045 | | | | | |

GROUNDWATER

| DEPTH | HOUR | DATE |
|---|---|---|
| 49.20 | 11:55 | 10/26/92 |
| 46.92 | | 11/24/92 |

WESTON

D47

P

# GEOLOGIC LOG

**MOUND PLANT**

Project Manager: William Little



Borehole/Well Id: P015

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| | O | GC | 0048 | Filter Pack: 20/40 quartz sand | | | GM-GP | |
| 50 | | | | Screen: PVC, 2" | | | SP | 50.3 to 53.9' - Yellowish brown (10YR 5/4) sand, loose, predominantly coarse to very coarse grained, well sorted, minor very fine to fine gravel, trace silt, trace fine to medium grained sand, saturated. Outwash. |
| | | | | | | | GM-GP | 53.9 to 55.0' - Yellowish brown (10YR 5/6) silty, sandy gravel, loose, fine to very coarse grained sand, fine to very coarse gravel, many large cobbles, poorly sorted, trace clay, saturated. Outwash. |
| 55 | O | GC | 0055 | | | | | |
| | O | GC | 0056 | Backfill: Native sediment | | | SH | 55.0 to 57.0' - Gray to dark gray (7.5YR 6/0 to 4/0) shale, hard, slightly fossiliferous, 10 - 20% silt, some foliation, limonite staining along partings, dry. Bedrock. |
| | | | | | | | | Total Depth = 57.0'. |
| 60 | | | | | | | | |
| 65 | | | | | | | | |
| 70 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 49.20 | 11:55 | 10/26/92 |
| ▼ | 46.92 | | 11/24/92 |

D48

WESTON

# GEOLOGIC LOG

## MOUND - OU9

Project Manager: GORDON HORN



| | | | |
|---|---|---|---|
| Drilling Company | NORTH STAR DRILLING | Borehole/Well Id | P027 |
| Drilling Method | ROTOSONIC DRILL | STATE PLANE COORDINATES | |
| Drilling Fluid | WATER | North (ft) | 596249.25 |
| Date Started | 1/9/93 | East (ft) | 1495078.43 |
| Date Completed | 1/9/93 | Ground Surface Elev. (ft) | 703.39 |
| Logged By | DALE FLORES | Top of Casing Elev. (ft) | 705.72 |
| Checked By | PAUL DARR | Total Depth (ft) | 40.0 |
| Comments: | South of Area B landfill. | | |

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Casing: PVC, 2" | | | TS | 0.0 to 1.5' - Brown gravelly clay, root structures. Topsoil. |
| | | | | | | | FL | 1.5 to 5.0' - Dark brown to olive brown gravelly clay, fine to coarse gravels, dense, moist. Fill. |
| | | | | Backfill: Cement - bentonite grout | | | | |
| 5 | | | | | | | CL | 5.0 to 6.5' - Greenish brown clay, trace gravel, root structures, probable buried soil horizon. |
| | | | | | | | GP | 6.5 to 15.0' - Light brown sandy gravel, trace clay, rounded, poorly sorted. Outwash. |
| 10 | | | | | | | | |
| 15 | | | | | | | | 15.0 to 17.0' - Light brown sandy gravel, trace silt, pieces of angular limestone, rounded, poorly sorted. Outwash. |
| | | | | | | | TI | 17.0 to 20.0' - Yellowish brown silty clay, fine to coarse sand, gravel to 2", high plasticity, very stiff. Till. |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 22.30 | 09:55 | 02/06/93 |
| ▽ | 24.71 | 09:57 | 05/19/93 |

WESTON

D49

# GEOLOGIC LOG

**MOUND - OU9**

Project Manager: GORDON HORN



Borehole/Well Id: P027

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | | SP | 20.0 to 25.0' - Brown to yellowish brown gravelly sand, fine to coarse sand, gravel to 2", trace cobble, trace clay, moist to wet. |
| 25 | | | | Seal: 1/4" Bentonite chips | | | SP | 25.0 to 27.0' - Brown sand, fine to medium sand with trace gravel and cobbles, saturated zone. |
| | | | | Filter Pack: 10/20 Colorado silica sand | | | SP | 27.0 to 28.0' - Yellowish brown gravelly sand, gravel to 3", fine to coarse sand, fine and coarse gravel, saturated, major water bearing zone. |
| | | | | | | | SP | 28.0 to 30.0' - Brown sand, fine to medium sand with occasional gravel and cobbles, saturated zone. |
| 30 | | | | Screen: PVC, 2", slot # 10 | | | ML | 30.0 to 32.0' - Brown silt, some clay, fine grained sand, very stiff has 2" medium grained sand zone within unit, major water bearing zone. |
| | | | | | | | ML | 32.0 to 33.0' - Gray sandy silt with organics, trace clay.<br>33.0 to 34.0' - Yellowish brown sandy silt with organics, trace clay. |
| 35 | | | | Backfill: Collapsed borehole material | | | SP | 34.0 to 35.0' - Light brown gravelly sand, fine to coarse sand, fine to coarse gravel, gravel to 3 inches, saturated. |
| 40 | | | | | | | | Total Depth = 40.0'. |
| 45 | | | | | | | | |

GROUNDWATER

| DEPTH | HOUR | DATE |
|---|---|---|
| 22.30 | 09:55 | 02/06/93 |
| 24.71 | 09:57 | 05/19/93 |

WESTON

D50

# GEOLOGIC LOG

## MOUND PLANT

Project Manager: John B. Price



| | | | |
|---|---|---|---|
| Drilling Company | Bowser Morner | Borehole/Well Id | 0154 |
| Drilling Method | Cable Tool | STATE PLANE COORDINATES | |
| Drilling Fluid | None | North (ft) | 596418.78 |
| Date Started | 10/3/87 | East (ft) | 1494969.47 |
| Date Completed | 10/4/87 | Ground Surface Elev. (ft) | 702.90 |
| Logged By | Lyn Lawlor | Top of Casing Elev. (ft) | 704.22 |
| Checked By | Tom Tharp | Total Depth (ft) | 53.5 |

Comments:

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | - | | | SP | Light brown gravelly sand, medium grained, poorly graded, subrounded, dry, weakly cemented, approximately 30% gravel, HNU = 0 |
| 5 | | | | BACKFILL: Cement and bentonite grout. CASING: Stainless steel, 4". | | | | |
| | SS | LI | 0001 | | | | CL | Brown to red gravelly, silty clay, moist, stiff, homogeneous, high plasticity, approximately 25% gravel, HNU = 0 |
| 10 | | | | | | | | |
| | SS | LI | 0002 | | | | CL | Dark brown gravelly, silty clay, moist, stiff, homogeneous, approximately 25% gravel, HNU = 0. |
| 15 | | | | | | | | |
| | SS | LI | 0003 | | | | SP | Light brown to brown gravelly sand, coarse grained, weakly cemented, wet, nonstratified, approximately 40% gravel, HNU = 0. |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 27.88 | 16:35 | 10/13/87 |
| ▼ | 28.66 | 16:30 | 12/10/87 |

WESTON

DS/

# GEOLOGIC LOG

**MOUND PLANT**

Project Manager: John B. Price



Borehole/Well Id 0154

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 20 | | | | BACKFILL: Cement and bentonite grout. | | | | |
| | SS | LI | 0004 | | | | SP | Light brown gravelly sand, coarse grained, wet, poorly graded, medium cementation, approximately 30% gravel, subrounded, HNU = 0. |
| 25 | | | | CASING: Stainless steel, 4". | | | | |
| | SS | LI | 0005 | | | | GP | Light brown sandy gravel, coarse grained, moist, weak cementation, approximately 60% gray limestone and light gray shale fragments, subangular, HNU = 0. |
| 30 | | | | | | | | |
| | SS | LI | 0006 | SEAL: Bentonite pellets. | | | GM | Light brown silty, sandy gravel, moist, weak cementation, approximately 60% gray to brown gravel, HNU = 0. |
| 35 | | | | | | | | |
| | SS | LI | 0007 | | | | GP | Dark brown sandy gravel, medium grained, poorly graded, nonstratified, wet, approximately 60% gravel, subrounded, HNU = 0. |
| 40 | | | | FILTER PACK: #4 quartz sand. | | | | |
| 45 | | | | SCREEN: Stainless steel, 4". | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 27.88 | 16:35 | 10/13/87 |
| ▼ | 28.66 | 16:30 | 12/10/87 |

WESTON

D52

# GEOLOGIC LOG

**MOUND PLANT**

Project Manager: John B. Price



Borehole/Well Id: 0154

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con. | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| | SS | LI | 0008 | | | | CL | Dark gray silty, gravelly clay, moist, very stiff, homogeneous, approximately 20% gravel, HNU = 0. |
| 50 | | | | | | | | |
| | SS | LI | 0009 | | | | LS | Limestone. |
| | | | | | | | | Total Depth = 53.5 feet. |
| 55 | | | | | | | | |
| 60 | | | | | | | | |
| 65 | | | | | | | | |
| 70 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 27.88 | 16:35 | 10/13/87 |
| ▼ | 28.66 | 16:30 | 12/10/87 |

WESTON

D53

# GEOLOGIC LOG

## MOUND PLANT

Project Manager: John B. Price



| | | | |
|---|---|---|---|
| Drilling Company | Bowser Morner | Borehole/Well Id | 0155 |
| Drilling Method | Cable Tool | STATE PLANE COORDINATES | |
| Drilling Fluid | None | North (ft) | 596407.73 |
| Date Started | 10/5/87 | East (ft) | 1494971.57 |
| Date Completed | 10/5/87 | Ground Surface Elev. (ft) | 702.80 |
| Logged By | Lyn Lawlor | Top of Casing Elev. (ft) | 704.28 |
| Checked By | Tom Tharp | Total Depth (ft) | 32.7 |

Comments:

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | SP | Gray to brown gravelly sand, coarse grained, poorly graded, dry, unconsolidated, approximately 30% gravel up to 1 inch in diameter, subrounded. HNU=0. |
| | | | | BACKFILL: Cement and bentonite grout. | | | | |
| 5 | | | | CASING: Stainless steel, 4". | | | | |
| | SS | LI | 0001 | | | | GP | Light brown to gray sandy gravel, coarse grained, poorly graded, moist, nonstratified, firm, medium plasticity, approximately 60% gravel up to 1 1/2 inches in diameter, subrounded, HNU=0. |
| 10 | | | | | | | | |
| | SS | LI | 0002 | | | | GM | Gray to light brown silty, sandy gravel, coarse grained, poorly graded, moist, nonstratified, noncemented, approximately 60% gravel, subrounded, HNU=0. |
| 15 | | | | SEAL: Bentonite pellets. | | | | |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 28.07 | 16:32 | 10/13/87 |
| ▼ | 28.92 | 14:18 | 12/10/87 |

WESTON

D54

# GEOLOGIC LOG

**MOUND PLANT**

Project Manager: John B. Price



Borehole/Well Id: 0155

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | | | |
| | SS | LI | 0003 | | | | SP | Light brown sand, medium grained, homogeneous, moist to wet, firm, nonstratified. |
| 25 | | | | SCREEN: Stainless steel, 4". | | | | |
| | SS | LI | 0004 | | | | SW | Light brown gravelly sand, coarse grained, wet, nonstratified, well graded, firm, approximately 30% gravel, subrounded, HNU = 0. |
| 30 | | | | FILTER PACK: #4 quartz sand. | | | | |
| | SS | LI | 0005 | | | | | |
| | | | | | | | | Total Depth = 32.7 feet. |
| 35 | | | | | | | | |
| 40 | | | | | | | | |
| 45 | | | | | | | | |

GROUNDWATER

| DEPTH | HOUR | DATE |
|---|---|---|
| 28.07 | 16:32 | 10/13/87 |
| 28.92 | 14:18 | 12/10/87 |

WESTON

DSS

# GEOLOGIC LOG

## MOUND PLANT

Project Manager: John B. Price



| | | | |
|---|---|---|---|
| Drilling Company | Bowser Morner | Borehole/Well Id | 0305 |
| Drilling Method | Cable Tool | STATE PLANE COORDINATES | |
| Drilling Fluid | None | North (ft) | 596493.51 |
| Date Started | 8/21/89 | East (ft) | 1495084.47 |
| Date Completed | 8/22/89 | Ground Surface Elev. (ft) | 710.00 |
| Logged By | Tom Tharp | Top of Casing Elev. (ft) | 711.76 |
| Checked By | Jim Brinkman | Total Depth (ft) | 40.1 |

Comments:

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | CASING: Stainless steel, 4". | | | CL | Gray clay, trace silt. |
| 5 | SS | LI | 0001 | BACKFILL: Cement and bentonite grout. | | | CL | Gray clay, trace silt. |
| 10 | SS | LI | 0002 | | | | CL | Brown clay, trace silt. |
| 15 | SS | LI | 0003 | | | | SM | Silty sand, well graded. |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 34.50 | 17:25 | 08/21/89 |
| ▼ | 30.28 | 11:56 | 09/20/90 |

D56

WESTON

# GEOLOGIC LOG

## MOUND PLANT

Project Manager: John B. Price



Borehole/Well Id 0305

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 20 | SS | LI | 0004 | BACKFILL: Cement and bentonite grout. | | | NR | No recovery. |
| | SS | LI | 0005 | CASING: Stainless steel, 4". | | | GC-GM | Clayey, silty gravel. |
| | ST | GT | 0025 | | | | | |
| 25 | | | | SEAL: Bentonite. | | | | |
| 30 | SS | VO | 0030 | | | | GC-GM | Gravel intermixed with sand, silt, and clay. |
| | SS | LI | 0006 | SCREEN: Stainless steel, 4", with .01" wire wrap slot. | | | GC-GM | Gravel intermixed with clay, silt, and some sand. |
| | SS | LI | 0007 | | | | | |
| 35 | | | | FILTER PACK: Quartz sand. | | | | |
| | SS | LI | 0008 | | | | CL | Clay regolith with gravel, sand and silt. |
| 40 | SS | LI | 0009 | | | | | Total Depth = 40.1 feet. |
| 45 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 34.50 | 17:25 | 08/21/89 |
| ▼ | 30.28 | 11:56 | 09/20/90 |

WESTON

D57

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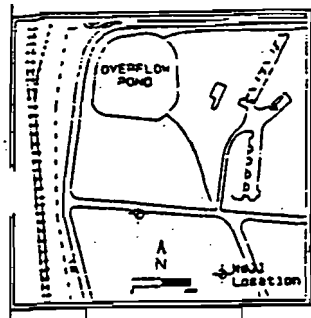


Area of Concern: Non-AOC
Drilling Company: Bowser-Morner
Drilling Method: Cable Tool
Drilling Fluid: Water
Drilling Completed: 7/11/94
Well Installed: 7/12/94, 7/13/94
Logged By: Susan Abston
Total Depth (ft BGS): 41.2

COORDINATES

| | |
|---|---|
| State Plane: Northing: | 596520.9127 |
| Easting: | 1485226.1001 |
| Mound Plant: South: | 3145.7534 |
| West: | 4857.5850 |
| Ground Surface Elevation (ft MSL): | 713.25 |
| Top of Casing Elevation (ft MSL): | 715.50 |

| GROUNDWATER | DATE | DEPTH (ft BGS) | COMMENTS |
|---|---|---|---|
| ▼ | 7/11/94 | 30.95 | Encountered during drilling. |
| ▽ | 7/21/94 | 32.10 | Sample collected. |

| DEPTH (ft BGS) | SAMPLES: Water | SAMPLES: Soil | WELL CONSTRUCTION | LITHOLOGY | USCS | DESCRIPTION / COMMENTS |
|---|---|---|---|---|---|---|
| 0 | | B41001 | steel protective casing with locking cap (2.25 ft AGS); concrete pad | | CL | 0–5.0 CLAY and SILT, trace coarse sand and gravel; dry; 7.5YR4/2 brown. |
| 4 | | | | | SC | 5.0–14.0 CLAY, SILT, and SAND, trace gravel; dry; 7.5YR5/3 brown. |
| 8 | | | cement bentonite grout | | | |
| 12 | | | 2" stainless steel riser | | | |
| 14 | | | | | SP | 14.0–18.0 SAND, some gravel, trace silt; coarse sand; dry. |
| 18 | | | | | SW | 18.0–28.0 SAND, some gravel; fine to coarse sand; dry. |
| 20 | | | (21.48 ft BGS); 3/8" bentonite pellet seal | | | |
| 24 | | | | | | |

Figure 2.10. Well Log of Monitoring Well W410
(Page 1 of 2)

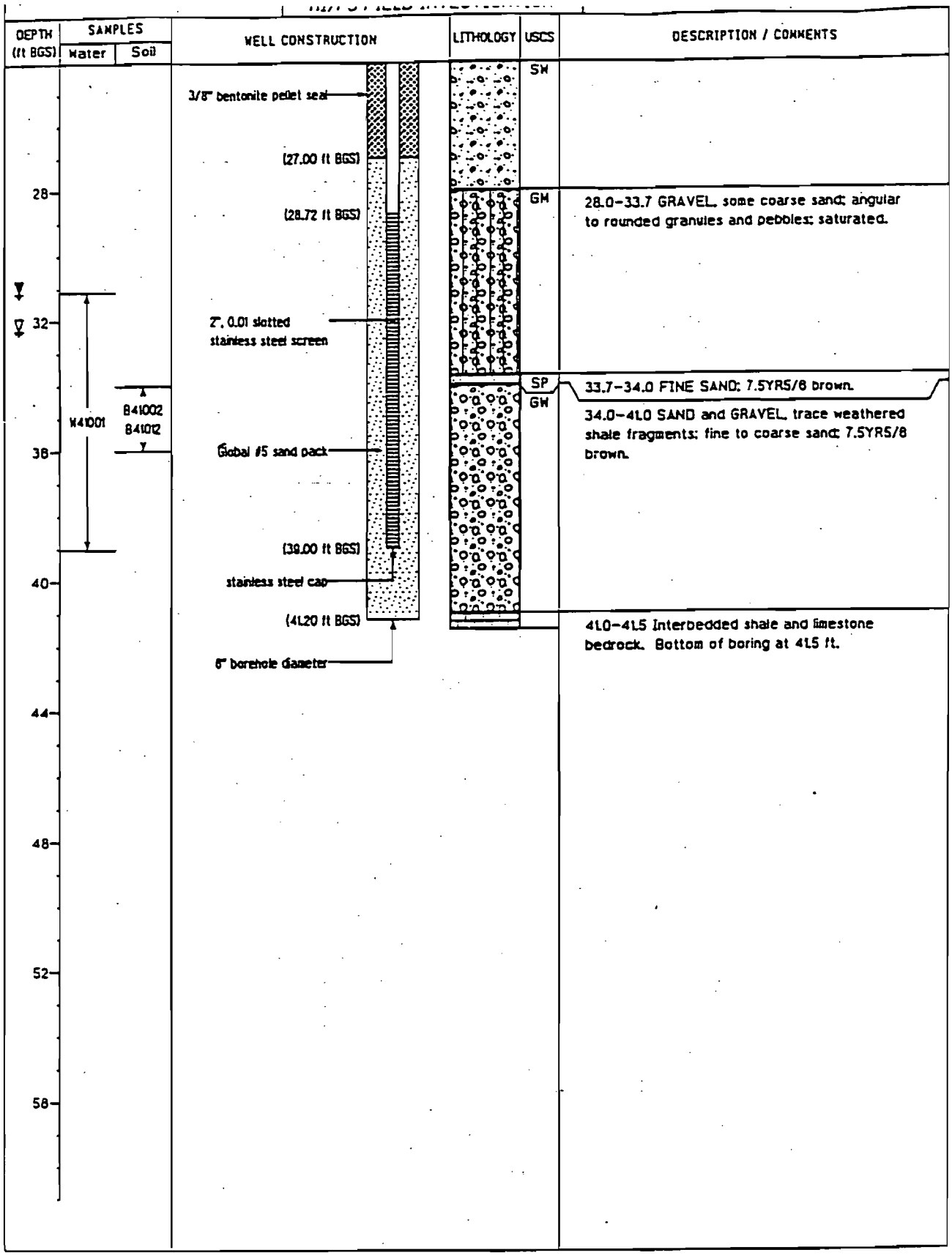


Figure 2.10. Well Log of Monitoring Well W410
(Page 2 of 2)

# GEOLOGIC LOG

## MOUND PLANT

Project Manager: MRC Engineering



| | | | |
|---|---|---|---|
| Drilling Company | Earth Sci. Lab. Inc. | Borehole/Well Id | 0471 |
| Drilling Method | Precussion Point | STATE PLANE COORDINATES | |
| Drilling Fluid | None | North (ft) | 596265.23 |
| Date Started | | East (ft) | 1495008.91 |
| Date Completed | 4/5/61 | Ground Surface Elev. (ft) | 702.50 |
| Logged By | Unk | Top of Casing Elev. (ft) | 704.73 |
| Checked By | Tom Tharp | Total Depth (ft) | 44.5 |
| Comments: | Originally numbered 71-4. Also known historically as Test Well # 2. | | |

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Well completion information is unknown. | | | TS | Topsoil. |
| 5 | | | | | | | GW | Clean fine to coarse gravel. |
| 10 | | | | 2 inch iron pipe 42.5 feet. 2 inch drive point screen. | | | GW | Sandy gravel, medium to coarse. |
| 15 | | | | | | | | |
| 20 | | | | | | | | Medium to coarse sand, some gravel. |

GROUNDWATER

| DEPTH | HOUR | DATE |
|---|---|---|
| | | |
| | | |

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WESTON

| GEOLOGIC LOG | MOUND PLANT | Project Manager<br>MRC Engineering | PAGE:<br>2 of 2 |
|---|---|---|---|

Borehole/Well Id 0471

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | | | |
| 25 | | | | | | | | Caving in bottom of well. |
| 30 | | | | | | | | |
| 35 | | | | | | | | |
| 40 | | | | | | | | |
| 45 | | | | | | | | Total Depth = 44.5 feet. |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | | | |
| ▼ | | | |

WESTON

D 61

# GEOLOGIC LOG

## MOUND PLANT

Project Manager
MRC Engineering



| | | | |
|---|---|---|---|
| Drilling Company | Earth Sci. Lab. Inc. | Borehole/Well Id | 0571 |
| Drilling Method | Precussion Point | STATE PLANE COORDINATES | |
| Drilling Fluid | None | North (ft) | 596448.77 |
| Date Started | | East (ft) | 1494972.83 |
| Date Completed | 4/6/61 | Ground Surface Elev. (ft) | 702.60 |
| Logged By | Unk | Top of Casing Elev. (ft) | 704.73 |
| Checked By | Tom Tharp | Total Depth (ft) | 44.0 |
| Comments: | Originally numbered 71-5. Also known historically as Test Well # 3. | | |

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Well completion information is unknown. | | | GW | Sandy gravel. |
| 5 | | | | | | | GW | Medium gravel to cobbles. |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | | | |
| ▼ | | | |

D62

WESTON

| GEOLOGIC LOG | MOUND PLANT | Project Manager<br>MRC Engineering | PAGE:<br>2 of 2 |
|---|---|---|---|

Borehole/Well Id 0571

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | | | No sample. |
| 25 | | | | | | | | |
| | | | | | | | GW | Coarse gravel. |
| 30 | | | | | | | | |
| | | | | | | | | No sample. |
| 35 | | | | | | | | |
| 40 | | | | | | | GW | Coarse gravel. |
| | | | | | | | | Total Depth = 44.0 feet. |
| 45 | | | | | | | | |

GROUNDWATER

| DEPTH | HOUR | DATE |
|---|---|---|
| | | |
| | | |

WESTON

063

40 CFR Sec. 141.61 Maximum contaminant levels for organic contaminants.

(a) The following maximum contaminant levels for organic contaminants apply to community and non-transient, non-community wate systems.

| | CAS No. | Contaminant | MCL (mg/l) |
|---|---|---|---|
| (1) | 75-01-4 | Vinyl chloride | 0.002 |
| (2) | 71-43-2 | Benzene | 0.005 |
| (3) | 56-23-5 | Carbon tetrachloride | 0.005 |
| (4) | 107-06-2 | 1,2-Dichloroethane | 0.005 |
| (5) | 79-01-6 | Trichloroethylene | 0.005 |
| (6) | 106-46-7 | para-Dichlorobenzene | 0.075 |
| (7) | 75-35-4 | 1,1-Dichloroethylene | 0.007 |
| (8) | 71-55-6 | 1,1,1-Trichloroethane | 0.2 |
| (9) | 156-59-2 | cis-1,2-Dichloroethylene | 0.07 |
| (10) | 78-87-5 | 1,2-Dichloropropane | 0.005 |
| (11) | 100-41-4 | Ethylbenzene | 0.7 |
| (12) | 108-90-7 | Monochlorobenzene | 0.1 |
| (13) | 95-50-1 | o-Dichlorobenzene | 0.6 |
| (14) | 100-42-5 | Styrene | 0.1 |
| (15) | 127-18-4 | Tetrachloroethylene | 0.005 |
| (16) | 108-88-3 | Toluene | 1 |
| (17) | 156-60-5 | trans-1,2-Dichloroethylene | 0.1 |
| (18) | 1330-20-7 | Xylenes (total) | 10 |
| (19) | 75-09-2 | Dichloromethane | 0.005 |
| (20) | 120-82-1 | 1,2,4-Trichlorobenzene | .07 |
| (21) | 79-00-5 | 1,1,2-Trichloroethane | .005 |

# Attachment E

## PRS 414 Further Assessment Data Report, January 2004, Rev. 0

# PRS 414

## FURTHER ASSESSMENT DATA REPORT

January 2004

Rev. 0

MIAMISBURG
CLOSURE PROJECT

CH2MHILL

E 1

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| 2.0 | FIELD ACTIVITIES | 1 |
| 2.1 | Sample Locations | 1 |
| 2.2 | Sample Summary | 2 |
| 3.0 | RESULTS | 2 |
| 3.1 | VOC Groundwater Results | 2 |
| 3.2 | PRS 282 VOC Soil Results | 2 |


# Figures


Figure 1: Location of PRS 414

Figure 2: PRS 414 Monitoring Well Locations


# Appendices


Appendix A Groundwater VOC Detections

Appendix B Time Series Charts

Appendix C Geologic Well Logs

# Acronyms

| | |
|---|---|
| BVA | Buried Valley Aquifer |
| MCL | Maximum Contaminant Level |
| NFA | No Further Assessment |
| OU-1 | Operable Unit One |
| PCE | tetrachloroethene |
| PRS | Potential Release Site |
| SAP | Sampling and Analysis Plan |
| TCE | trichloroethene |
| VOC | volatile organic compound |

# 1.0 PURPOSE

This Further Assessment Data Report documents the characterization activities of Potential Release Site (PRS) 414 (location shown on Figure 1). PRS 414 represents volatile organic compound (VOC) contamination in the Buried Valley Aquifer (BVA) groundwater south of the Operable Unit 1 (OU-1) compliance boundary. Operation of the OU-1 remedial pump and treat groundwater system was expected to have an impact on the downgradient groundwater. The characterization effort associated with PRS 414 was therefore limited to groundwater monitoring of wells screened in the BVA within the bounds of PRS 414. Characterization of PRS 282 (spoils area) also provides some information regarding the nature of the soils above PRS 414.

The purposes of this Data Report are to:

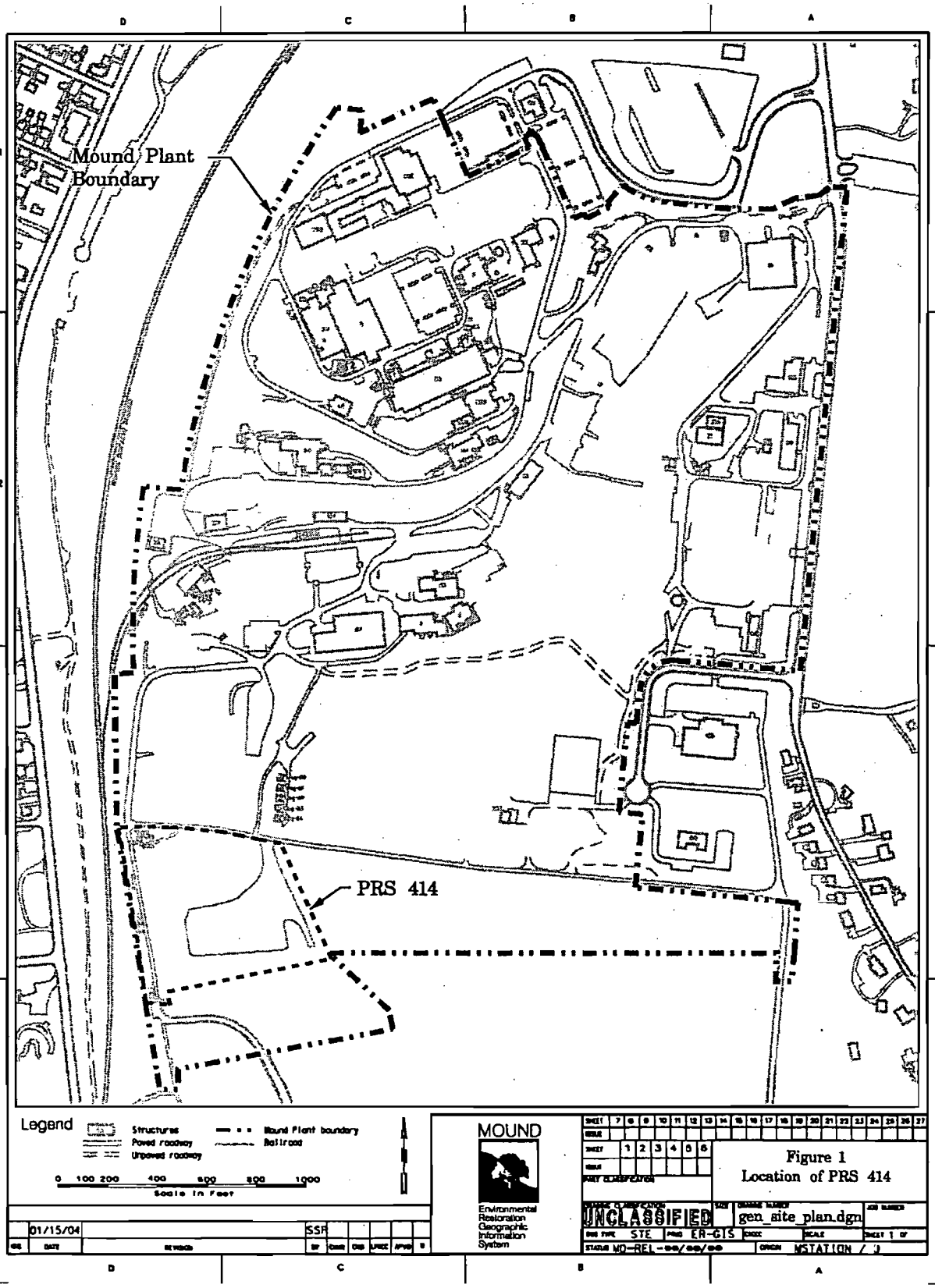
- document the characterization of PRS 414 and
- present the analytical results.

# 2.0 FIELD ACTIVITIES

Groundwater sampling activities occurred from 1998 through 2003. Sampling occurred during both active groundwater remediation (pump and treat system on continuously from Jan 1997 through May 2003) and during the OU-1 rebound test (initiated May 2003 involving shut down of pump and treat system).

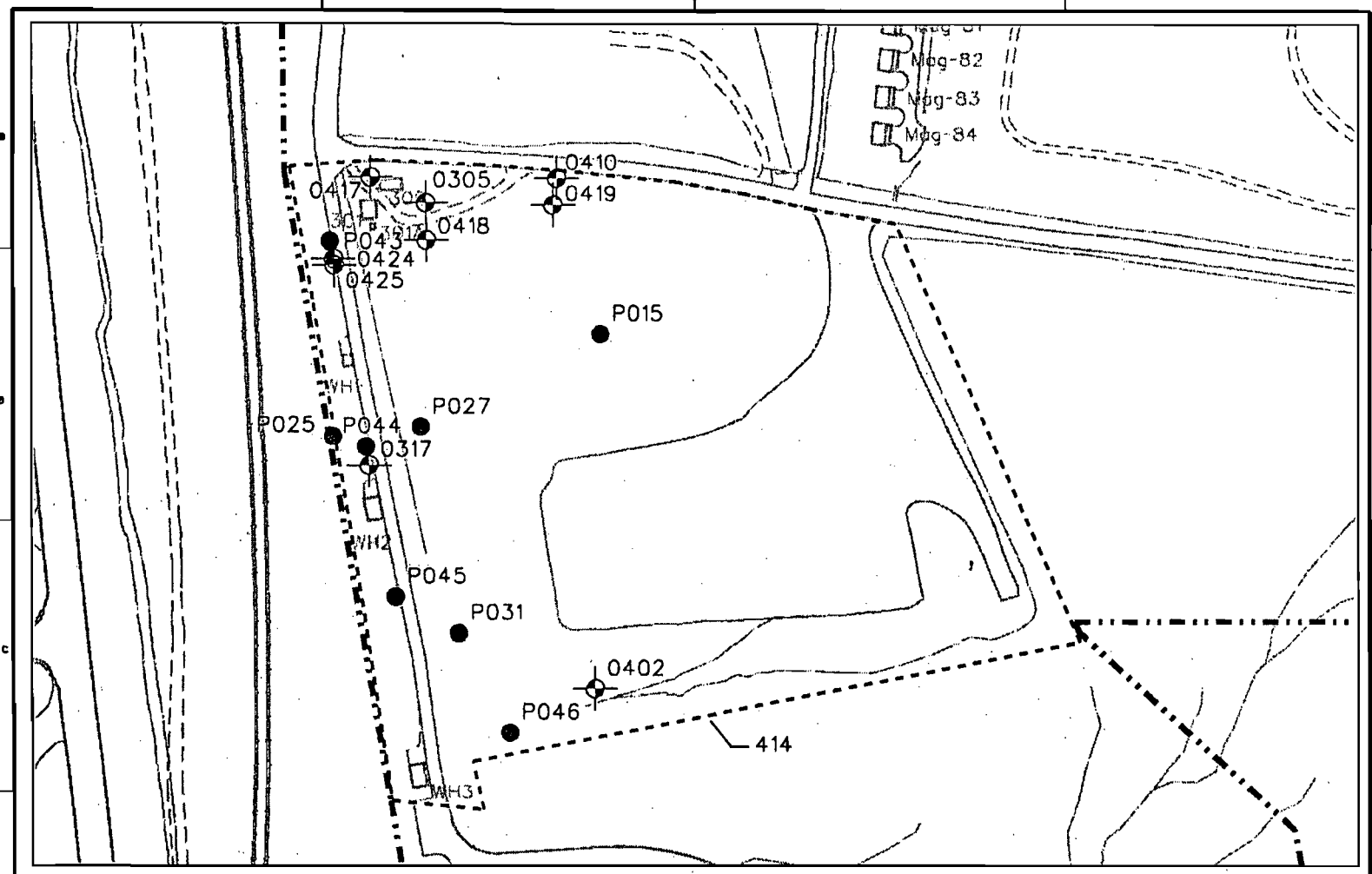
## 2.1 SAMPLE LOCATIONS

Groundwater samples were collected during quarterly groundwater sampling events from BVA wells located within the PRS 414 area. The wells include: 0305, 0317, 0402, 0410, 0417, 0418, 0419, 0424, 0425, P015, P025, P027, P031, P043, P044, P045, and P046. Figure 2 shows the location of the monitoring wells. Well logs are included as Appendix C.


Mound Plant Boundary
PRS 414
Legend
Structures
Paved roadway
Unpaved roadway
Mound Plant boundary
Railroad
0 100 200 400 600 800 1000
Scale in Feet
MOUND
Environmental Restoration Geographic Information System
Figure 1
Location of PRS 414
UNCLASSIFIED
gen_site_plan.dgn
01/15/04
SSR



E6




Piezometer

Monitoring Well

0 25 50 100 150 200 250
Scale In Feet

MOUND
Environmental Restoration Geographic Information System

| | | | | | | |
|---|---|---|---|---|---|---|
| | 01/15/04 | | SSF | | | |
| REV | DATE | REVISION | BY | CHKR | ENG | APVD |

Figure 2:
PRS 414 Area Wells

UNCLASSIFIED

prs414wells.dgn

STE ER-GIS

STATUS WD-REL-00/00/00 MSTATION / J

## 2.2 SAMPLE SUMMARY

Samples were collected and analyzed in accordance with procedures outlined in the Methods Compendium (MD-80045, May 2000).

# 3.0 RESULTS

The following analytical providers were used in support of the SAP:

- RCRA Lionville for offsite volatile organic compound analysis.

## 3.1 VOC GROUNDWATER RESULTS

Offsite chemical analysis for VOCs was performed on all groundwater samples. Appendix A shows all VOC groundwater detections for the monitoring period of interest (Jan 1997 through May 2003). Trichloroethene (TCE) and Tetrachloroethene (PCE) are the only VOCs that currently occur above Federal Maximum Contaminanat Levels (MCLs) within the groundwater associated with PRS 414. Appendix B shows time series groundwater concentration charts for TCE and PCE in the PRS 414 monitoring wells.

## 3.2 PRS 282 VOC SOIL RESULTS

VOC soil samples were collected as part of the PRS 282 Further Assessment. Based on the results it was determined that the soils posed no threat to the underlying groundwater system (see PRS 282 Data Report). The PRS was binned No Further Assessment (NFA) by the Core Team on December 11, 2002.

# APPENDIX A

## GROUNDWATER VOC DETECTIONS

# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0305 | 03/30/1998 | 1,1,1-Trichloroethane | 2.300000 | UG/L | 0.300000 |
| 0305 | 03/30/1998 | 1,1,1-Trichloroethane | 1.800000 | UG/L | 0.300000 |
| 0305 | 03/30/1998 | 1,1,1-Trichloroethane | 1.800000 | UG/L | 0.300000 |
| 0305 | 03/30/1998 | Tetrachloroethene | 8.200000 | UG/L | 0.300000 |
| 0305 | 03/30/1998 | Tetrachloroethene | 7.000000 | UG/L | 0.300000 |
| 0305 | 03/30/1998 | Tetrachloroethene | 9.000000 | UG/L | 0.300000 |
| 0305 | 03/30/1998 | Trichloroethylene (TCE) | 8.400000 | UG/L | 1.200000 |
| 0305 | 03/30/1998 | Trichloroethylene (TCE) | 7.000000 | UG/L | 1.200000 |
| 0305 | 03/30/1998 | Trichloroethylene (TCE) | 9.100000 | UG/L | 1.200000 |
| 0305 | 06/18/1998 | 1,1,1-Trichloroethane | 5.100000 | UG/L | 0.300000 |
| 0305 | 06/18/1998 | 1,1,1-Trichloroethane | 4.500000 | UG/L | 0.300000 |
| 0305 | 06/18/1998 | Tetrachloroethene | 6.600000 | UG/L | 0.300000 |
| 0305 | 06/18/1998 | Tetrachloroethene | 7.100000 | UG/L | 0.300000 |
| 0305 | 06/18/1998 | Trichloroethylene (TCE) | 4.900000 | UG/L | 1.200000 |
| 0305 | 06/18/1998 | Trichloroethylene (TCE) | 5.500000 | UG/L | 1.200000 |
| 0305 | 10/12/1998 | 1,1,1-Trichloroethane | 4.600000 | UG/L | 0.300000 |
| 0305 | 10/12/1998 | 1,1,1-Trichloroethane | 3.900000 | UG/L | 0.300000 |
| 0305 | 10/12/1998 | Tetrachloroethene | 6.100000 | UG/L | 0.300000 |
| 0305 | 10/12/1998 | Tetrachloroethene | 5.600000 | UG/L | 0.300000 |
| 0305 | 10/12/1998 | Trichloroethylene (TCE) | 4.500000 | UG/L | 1.200000 |
| 0305 | 10/12/1998 | Trichloroethylene (TCE) | 4.700000 | UG/L | 1.200000 |
| 0305 | 01/07/1999 | 1,1,1-Trichloroethane | 4.800000 | UG/L | 0.300000 |
| 0305 | 01/07/1999 | Tetrachloroethene | 7.100000 | UG/L | 0.300000 |
| 0305 | 01/07/1999 | Trichloroethylene (TCE) | 6.400000 | UG/L | 1.200000 |
| 0305 | 04/27/1999 | 1,1,1-Trichloroethane | 2.800000 | UG/L | 0.300000 |
| 0305 | 04/27/1999 | Tetrachloroethene | 5.600000 | UG/L | 0.300000 |
| 0305 | 04/27/1999 | Trichloroethylene (TCE) | 2.600000 | UG/L | 1.200000 |
| 0305 | 06/15/1999 | 1,1,1-Trichloroethane | 5.700000 | UG/L | 0.300000 |
| 0305 | 06/15/1999 | Tetrachloroethene | 5.500000 | UG/L | 0.300000 |
| 0305 | 06/15/1999 | Trichloroethylene (TCE) | 4.100000 | UG/L | 1.200000 |
| 0305 | 08/31/1999 | 1,1,1-Trichloroethane | 4.400000 | UG/L | 0.300000 |
| 0305 | 08/31/1999 | 1,1,1-Trichloroethane | 4.400000 | UG/L | 0.300000 |
| 0305 | 08/31/1999 | 1,1,1-Trichloroethane | 4.800000 | UG/L | 0.300000 |
| 0305 | 08/31/1999 | 1,1,1-Trichloroethane | 5.000000 | UG/L | 0.300000 |
| 0305 | 08/31/1999 | Tetrachloroethene | 3.900000 | UG/L | 0.300000 |
| 0305 | 08/31/1999 | Tetrachloroethene | 5.500000 | UG/L | 0.300000 |
| 0305 | 08/31/1999 | Tetrachloroethene | 4.300000 | UG/L | 0.300000 |
| 0305 | 08/31/1999 | Tetrachloroethene | 6.400000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0305 | 08/31/1999 | Trichloroethylene (TCE) | 3.100000 | UG/L | 1.200000 |
| 0305 | 08/31/1999 | Trichloroethylene (TCE) | 3.500000 | UG/L | 1.200000 |
| 0305 | 08/31/1999 | Trichloroethylene (TCE) | 3.200000 | UG/L | 1.200000 |
| 0305 | 08/31/1999 | Trichloroethylene (TCE) | 3.500000 | UG/L | 1.200000 |
| 0305 | 01/19/2000 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| 0305 | 01/19/2000 | Tetrachloroethene | 4.900000 | UG/L | 0.300000 |
| 0305 | 01/19/2000 | Trichloroethylene (TCE) | 5.200000 | UG/L | 1.200000 |
| 0305 | 01/19/2000 | Trichloromethane | 0.780000 | UG/L | 0.500000 |
| 0305 | 04/10/2000 | 1,1,1-Trichloroethane | 0.740000 | UG/L | 0.300000 |
| 0305 | 04/10/2000 | Bromodichloromethane | 1.000000 | UG/L | 1.000000 |
| 0305 | 04/10/2000 | Dibromochloromethane | 1.200000 | UG/L | 0.900000 |
| 0305 | 04/10/2000 | Tetrachloroethene | 2.100000 | UG/L | 0.300000 |
| 0305 | 04/10/2000 | Trichloroethylene (TCE) | 2.300000 | UG/L | 1.200000 |
| 0305 | 04/10/2000 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0305 | 06/21/2000 | 1,1,1-Trichloroethane | 0.470000 | UG/L | 0.300000 |
| 0305 | 06/21/2000 | Bromodichloromethane | 1.200000 | UG/L | 1.000000 |
| 0305 | 06/21/2000 | Dibromochloromethane | 1.700000 | UG/L | 0.900000 |
| 0305 | 06/21/2000 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| 0305 | 06/21/2000 | Trichloroethylene (TCE) | 1.400000 | UG/L | 1.200000 |
| 0305 | 06/21/2000 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0305 | 09/19/2000 | 1,1,1-Trichloroethane | 0.580000 | UG/L | 0.300000 |
| 0305 | 09/19/2000 | Bromodichloromethane | 1.600000 | UG/L | 1.000000 |
| 0305 | 09/19/2000 | Dibromochloromethane | 1.100000 | UG/L | 0.900000 |
| 0305 | 09/19/2000 | Tetrachloroethene | 2.900000 | UG/L | 0.300000 |
| 0305 | 09/19/2000 | Trichloroethylene (TCE) | 3.600000 | UG/L | 1.200000 |
| 0305 | 09/19/2000 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0305 | 01/31/2001 | 1,1,1-Trichloroethane | 0.800000 | UG/L | 0.300000 |
| 0305 | 01/31/2001 | Tetrachloroethene | 2.700000 | UG/L | 0.300000 |
| 0305 | 01/31/2001 | Trichloroethylene (TCE) | 2.300000 | UG/L | 1.200000 |
| 0305 | 01/31/2001 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0305 | 05/02/2001 | 1,1,1-Trichloroethane | 0.690000 | UG/L | 0.300000 |
| 0305 | 05/02/2001 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| 0305 | 05/02/2001 | Trichloroethylene (TCE) | 2.200000 | UG/L | 1.200000 |
| 0305 | 05/02/2001 | Trichloromethane | 0.820000 | UG/L | 0.500000 |
| 0305 | 07/26/2001 | 1,1,1-Trichloroethane | 0.710000 | UG/L | 0.300000 |
| 0305 | 07/26/2001 | Tetrachloroethene | 2.600000 | UG/L | 0.300000 |
| 0305 | 07/26/2001 | Trichloroethylene (TCE) | 2.400000 | UG/L | 1.200000 |
| 0305 | 07/26/2001 | Trichloromethane | 1.400000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0305 | 10/22/2001 | 1,1,1-Trichloroethane | 0.550000 | UG/L | 0.300000 |
| 0305 | 10/22/2001 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| 0305 | 10/22/2001 | Trichloroethylene (TCE) | 2.100000 | UG/L | 1.200000 |
| 0305 | 10/22/2001 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0305 | 02/01/2002 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| 0305 | 02/01/2002 | Tetrachloroethene | 2.000000 | UG/L | 0.300000 |
| 0305 | 02/01/2002 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| 0305 | 02/01/2002 | Trichloromethane | 0.890000 | UG/L | 0.500000 |
| 0305 | 04/23/2002 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| 0305 | 04/23/2002 | Tetrachloroethene | 2.600000 | UG/L | 0.300000 |
| 0305 | 04/23/2002 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| 0305 | 04/23/2002 | Trichloromethane | 1.800000 | UG/L | 0.500000 |
| 0305 | 07/26/2002 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| 0305 | 07/26/2002 | Tetrachloroethene | 2.300000 | UG/L | 0.300000 |
| 0305 | 07/26/2002 | Trichloroethylene (TCE) | 1.800000 | UG/L | 1.200000 |
| 0305 | 07/26/2002 | Trichloromethane | 1.900000 | UG/L | 0.500000 |
| 0305 | 11/04/2002 | 1,1,1-Trichloroethane | 0.870000 | UG/L | 0.300000 |
| 0305 | 11/04/2002 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| 0305 | 11/04/2002 | Trichloroethylene (TCE) | 1.400000 | UG/L | 1.200000 |
| 0305 | 02/05/2003 | Tetrachloroethene | 2.100000 | UG/L | 0.300000 |
| 0305 | 02/05/2003 | Trichloroethylene (TCE) | 1.900000 | UG/L | 1.200000 |
| 0305 | 05/19/2003 | 1,1,1-Trichloroethane | 0.880000 | UG/L | 0.300000 |
| 0305 | 05/19/2003 | 1,1,1-Trichloroethane | 0.880000 | UG/L | 0.300000 |
| 0305 | 05/19/2003 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| 0305 | 05/19/2003 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| 0305 | 05/19/2003 | Trichloroethylene (TCE) | 1.200000 | UG/L | 1.200000 |
| 0305 | 05/19/2003 | Trichloroethylene (TCE) | 1.200000 | UG/L | 1.200000 |
| 0305 | 05/19/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0305 | 05/19/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0305 | 05/27/2003 | 1,1,1-Trichloroethane | 0.730000 | UG/L | 0.300000 |
| 0305 | 05/27/2003 | Tetrachloroethene | 2.100000 | UG/L | 0.300000 |
| 0305 | 05/27/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0305 | 06/02/2003 | 1,1,1-Trichloroethane | 0.720000 | UG/L | 0.300000 |
| 0305 | 06/02/2003 | Tetrachloroethene | 2.000000 | UG/L | 0.300000 |
| 0305 | 06/02/2003 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| 0305 | 06/09/2003 | 1,1,1-Trichloroethane | 0.620000 | UG/L | 0.300000 |
| 0305 | 06/09/2003 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| 0305 | 06/09/2003 | Trichloromethane | 1.400000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0305 | 07/14/2003 | 1,1,1-Trichloroethane | 0.500000 | UG/L | 0.300000 |
| 0305 | 07/14/2003 | 1,1,1-Trichloroethane | 0.500000 | UG/L | 0.300000 |
| 0305 | 07/14/2003 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| 0305 | 07/14/2003 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| 0305 | 07/14/2003 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| 0305 | 07/14/2003 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| 0305 | 07/14/2003 | Trichloromethane | 18.000000 | UG/L | 0.500000 |
| 0305 | 07/14/2003 | Trichloromethane | 18.000000 | UG/L | 0.500000 |
| 0305 | 08/15/2003 | 1,1,1-Trichloroethane | 0.790000 | UG/L | 0.300000 |
| 0305 | 08/15/2003 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| 0305 | 08/15/2003 | Trichloroethylene (TCE) | 1.900000 | UG/L | 1.200000 |
| 0305 | 08/15/2003 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0305 | 09/16/2003 | 1,1,1-Trichloroethane | 0.700000 | UG/L | 0.300000 |
| 0305 | 09/16/2003 | Tetrachloroethene | 1.900000 | UG/L | 0.300000 |
| 0305 | 09/16/2003 | Trichloroethylene (TCE) | 3.800000 | UG/L | 1.200000 |
| 0305 | 09/16/2003 | Trichloromethane | 0.900000 | UG/L | 0.500000 |
| 0305 | 10/14/2003 | 1,1,1-Trichloroethane | 0.740000 | UG/L | 0.300000 |
| 0305 | 10/14/2003 | 1,1,1-Trichloroethane | 0.740000 | UG/L | 0.300000 |
| 0305 | 10/14/2003 | 1,2-cis-Dichloroethene | 2.000000 | UG/L | 1.000000 |
| 0305 | 10/14/2003 | 1,2-cis-Dichloroethene | 2.000000 | UG/L | 1.000000 |
| 0305 | 10/14/2003 | Tetrachloroethene | 2.100000 | UG/L | 0.300000 |
| 0305 | 10/14/2003 | Tetrachloroethene | 2.100000 | UG/L | 0.300000 |
| 0305 | 10/14/2003 | Trichloroethylene (TCE) | 3.500000 | UG/L | 1.200000 |
| 0305 | 10/14/2003 | Trichloroethylene (TCE) | 3.500000 | UG/L | 1.200000 |
| 0305 | 10/14/2003 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| 0305 | 10/14/2003 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| 0317 | 06/26/2000 | 1,1,1-Trichloroethane | 0.650000 | UG/L | 0.300000 |
| 0317 | 07/16/2003 | 1,1,1-Trichloroethane | 0.400000 | UG/L | 0.300000 |
| 0402 | 10/21/2003 | 1,1,1-Trichloroethane | 0.340000 | UG/L | 0.300000 |
| 0410 | 03/26/1998 | 1,2-cis-Dichloroethene | 2.900000 | UG/L | 1.000000 |
| 0410 | 03/26/1998 | 1,2-cis-Dichloroethene | 4.000000 | UG/L | 1.000000 |
| 0410 | 03/26/1998 | Tetrachloroethene | 3.000000 | UG/L | 0.300000 |
| 0410 | 03/26/1998 | Tetrachloroethene | 5.300000 | UG/L | 0.300000 |
| 0410 | 03/26/1998 | Trichloroethylene (TCE) | 20.000000 | UG/L | 1.200000 |
| 0410 | 03/26/1998 | Trichloroethylene (TCE) | 25.000000 | UG/L | 1.200000 |
| 0410 | 03/26/1998 | Trichloromethane | 2.100000 | UG/L | 0.500000 |
| 0410 | 03/26/1998 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0410 | 06/24/1998 | 1,2-cis-Dichloroethene | 1.000000 | UG/L | 1.000000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0410 | 06/24/1998 | 1,2-cis-Dichloroethene | 1.200000 | UG/L | 1.000000 |
| 0410 | 06/24/1998 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| 0410 | 06/24/1998 | Tetrachloroethene | 0.920000 | UG/L | 0.300000 |
| 0410 | 06/24/1998 | Trichloroethylene (TCE) | 5.300000 | UG/L | 1.200000 |
| 0410 | 06/24/1998 | Trichloroethylene (TCE) | 6.800000 | UG/L | 1.200000 |
| 0410 | 06/24/1998 | Trichloromethane | 0.570000 | UG/L | 0.500000 |
| 0410 | 10/13/1998 | 1,2-cis-Dichloroethene | 84.000000 | UG/L | 2.000000 |
| 0410 | 10/13/1998 | Tetrachloroethene | 4.700000 | UG/L | 0.300000 |
| 0410 | 10/13/1998 | Tetrachloroethene | 4.300000 | UG/L | 0.300000 |
| 0410 | 10/13/1998 | Trichloroethylene (TCE) | 30.000000 | UG/L | 1.200000 |
| 0410 | 10/13/1998 | Trichloroethylene (TCE) | 31.000000 | UG/L | 1.200000 |
| 0410 | 10/13/1998 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0410 | 10/13/1998 | Trichloromethane | 2.100000 | UG/L | 0.500000 |
| 0410 | 10/13/1998 | Vinyl Chloride | 1.600000 | UG/L | 1.000000 |
| 0410 | 10/13/1998 | Vinyl Chloride | 1.500000 | UG/L | 1.000000 |
| 0410 | 01/08/1999 | 1,2-cis-Dichloroethene | 30.000000 | UG/L | 1.000000 |
| 0410 | 01/08/1999 | Tetrachloroethene | 4.400000 | UG/L | 0.300000 |
| 0410 | 01/08/1999 | Trichloroethylene (TCE) | 32.000000 | UG/L | 1.200000 |
| 0410 | 01/08/1999 | Trichloromethane | 2.100000 | UG/L | 0.500000 |
| 0410 | 04/29/1999 | Tetrachloroethene | 3.400000 | UG/L | 0.300000 |
| 0410 | 04/29/1999 | Trichloroethylene (TCE) | 16.000000 | UG/L | 1.200000 |
| 0410 | 06/17/1999 | Bromochloromethane | 121.000000 | UG/L | |
| 0410 | 06/17/1999 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| 0410 | 06/17/1999 | Trichloroethylene (TCE) | 18.000000 | UG/L | 1.200000 |
| 0410 | 09/01/1999 | 1,2-cis-Dichloroethene | 140.000000 | UG/L | 5.000000 |
| 0410 | 09/01/1999 | 1,2-cis-Dichloroethene | 180.000000 | UG/L | 5.000000 |
| 0410 | 09/01/1999 | Tetrachloroethene | 5.700000 | UG/L | 1.500000 |
| 0410 | 09/01/1999 | Trichloroethylene (TCE) | 51.000000 | UG/L | 6.000000 |
| 0410 | 09/01/1999 | Trichloroethylene (TCE) | 66.000000 | UG/L | 6.000000 |
| 0410 | 01/19/2000 | 1,2-cis-Dichloroethene | 74.000000 | UG/L | 5.000000 |
| 0410 | 01/19/2000 | 1,2-trans-Dichloroethene | 1.200000 | UG/L | 1.000000 |
| 0410 | 01/19/2000 | Tetrachloroethene | 6.900000 | UG/L | 0.300000 |
| 0410 | 01/19/2000 | Trichloroethylene (TCE) | 29.000000 | UG/L | 1.200000 |
| 0410 | 01/19/2000 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0410 | 04/11/2000 | 1,2-cis-Dichloroethene | 45.000000 | UG/L | 1.000000 |
| 0410 | 04/11/2000 | Tetrachloroethene | 4.400000 | UG/L | 0.300000 |
| 0410 | 04/11/2000 | Trichloroethylene (TCE) | 18.000000 | UG/L | 1.200000 |
| 0410 | 04/11/2000 | Trichloromethane | 0.930000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0410 | 06/20/2000 | 1,2-cis-Dichloroethene | 40.000000 | UG/L | 1.000000 |
| 0410 | 06/20/2000 | FREON-113 | 3.400000 | UG/L | 2.000000 |
| 0410 | 06/20/2000 | Tetrachloroethene | 2.900000 | UG/L | 0.300000 |
| 0410 | 06/20/2000 | Trichloroethylene (TCE) | 10.000000 | UG/L | 1.200000 |
| 0410 | 06/20/2000 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0410 | 09/27/2000 | 1,2-cis-Dichloroethene | 49.000000 | UG/L | 1.000000 |
| 0410 | 09/27/2000 | Tetrachloroethene | 2.100000 | UG/L | 0.300000 |
| 0410 | 09/27/2000 | Toluene | 3.800000 | UG/L | 2.000000 |
| 0410 | 09/27/2000 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0410 | 09/27/2000 | Trichloromethane | 0.760000 | UG/L | 0.500000 |
| 0410 | 02/08/2001 | 1,2-cis-Dichloroethene | 37.000000 | UG/L | 1.000000 |
| 0410 | 02/08/2001 | Tetrachloroethene | 3.000000 | UG/L | 0.300000 |
| 0410 | 02/08/2001 | Trichloroethylene (TCE) | 23.000000 | UG/L | 1.200000 |
| 0410 | 02/08/2001 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0410 | 04/25/2001 | 1,2-cis-Dichloroethene | 2.200000 | UG/L | 1.000000 |
| 0410 | 04/25/2001 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| 0410 | 04/25/2001 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0410 | 07/25/2001 | 1,2-cis-Dichloroethene | 1.200000 | UG/L | 1.000000 |
| 0410 | 07/25/2001 | Tetrachloroethene | 3.300000 | UG/L | 0.300000 |
| 0410 | 07/25/2001 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0410 | 07/25/2001 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0410 | 10/18/2001 | 1,2-cis-Dichloroethene | 35.000000 | UG/L | 1.000000 |
| 0410 | 10/18/2001 | FREON-113 | 2.600000 | UG/L | 2.000000 |
| 0410 | 10/18/2001 | Tetrachloroethene | 4.600000 | UG/L | 0.300000 |
| 0410 | 10/18/2001 | Trichloroethylene (TCE) | 22.000000 | UG/L | 1.200000 |
| 0410 | 10/18/2001 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0410 | 02/01/2002 | Tetrachloroethene | 2.300000 | UG/L | 0.300000 |
| 0410 | 02/01/2002 | Trichloroethylene (TCE) | 7.200000 | UG/L | 1.200000 |
| 0410 | 04/22/2002 | Tetrachloroethene | 1.300000 | UG/L | 0.300000 |
| 0410 | 04/22/2002 | Trichloroethylene (TCE) | 2.900000 | UG/L | 1.200000 |
| 0410 | 07/25/2002 | 1,2-cis-Dichloroethene | 1.600000 | UG/L | 1.000000 |
| 0410 | 07/25/2002 | Tetrachloroethene | 3.000000 | UG/L | 0.300000 |
| 0410 | 07/25/2002 | Trichloroethylene (TCE) | 13.000000 | UG/L | 1.200000 |
| 0410 | 11/08/2002 | 1,2-cis-Dichloroethene | 9.000000 | UG/L | 1.000000 |
| 0410 | 11/08/2002 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| 0410 | 11/08/2002 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| 0410 | 11/08/2002 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0410 | 02/05/2003 | Tetrachloroethene | 2.600000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0410 | 02/05/2003 | Trichloroethylene (TCE) | 6.300000 | UG/L | 1.200000 |
| 0410 | 05/19/2003 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| 0410 | 05/19/2003 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| 0410 | 05/19/2003 | Trichloroethylene (TCE) | 5.600000 | UG/L | 1.200000 |
| 0410 | 05/19/2003 | Trichloroethylene (TCE) | 5.600000 | UG/L | 1.200000 |
| 0410 | 05/27/2003 | Trichloroethylene (TCE) | 5.900000 | UG/L | 1.200000 |
| 0410 | 06/02/2003 | 1,2-cis-Dichloroethene | 5.800000 | UG/L | 1.000000 |
| 0410 | 06/02/2003 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0410 | 06/02/2003 | Trichloromethane | 0.900000 | UG/L | 0.500000 |
| 0410 | 06/09/2003 | Tetrachloroethene | 2.000000 | UG/L | 0.300000 |
| 0410 | 06/09/2003 | Trichloroethylene (TCE) | 19.000000 | UG/L | 1.200000 |
| 0410 | 06/09/2003 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0410 | 06/30/2003 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0410 | 06/30/2003 | Trichloromethane | 1.000000 | UG/L | 0.500000 |
| 0410 | 07/14/2003 | 1,1,2-Trichloroethane | 0.200000 | UG/L | 0.200000 |
| 0410 | 07/14/2003 | 1,1,2-Trichloroethane | 0.200000 | UG/L | 0.200000 |
| 0410 | 07/14/2003 | Carbon Tetrachloride | 1.600000 | UG/L | 1.200000 |
| 0410 | 07/14/2003 | Carbon Tetrachloride | 1.600000 | UG/L | 1.200000 |
| 0410 | 07/14/2003 | FREON-113 | 2.200000 | UG/L | 2.000000 |
| 0410 | 07/14/2003 | FREON-113 | 2.200000 | UG/L | 2.000000 |
| 0410 | 07/14/2003 | Tetrachloroethene | 4.100000 | UG/L | 0.300000 |
| 0410 | 07/14/2003 | Tetrachloroethene | 4.100000 | UG/L | 0.300000 |
| 0410 | 07/14/2003 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| 0410 | 07/14/2003 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| 0410 | 07/14/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0410 | 07/14/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0410 | 08/13/2003 | FREON-113 | 2.000000 | UG/L | 2.000000 |
| 0410 | 08/13/2003 | Tetrachloroethene | 2.900000 | UG/L | 0.300000 |
| 0410 | 08/13/2003 | Trichloroethylene (TCE) | 20.000000 | UG/L | 1.200000 |
| 0410 | 08/13/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0410 | 09/16/2003 | 1,2-cis-Dichloroethene | 2.200000 | UG/L | 1.000000 |
| 0410 | 09/16/2003 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| 0410 | 09/16/2003 | Trichloroethylene (TCE) | 5.300000 | UG/L | 1.200000 |
| 0410 | 10/17/2003 | 1,1,1-Trichloroethane | 0.690000 | UG/L | 0.300000 |
| 0410 | 10/17/2003 | 1,1,1-Trichloroethane | 0.690000 | UG/L | 0.300000 |
| 0410 | 10/17/2003 | 1,2-cis-Dichloroethene | 18.000000 | UG/L | 1.000000 |
| 0410 | 10/17/2003 | 1,2-cis-Dichloroethene | 18.000000 | UG/L | 1.000000 |
| 0410 | 10/17/2003 | FREON-113 | 2.500000 | UG/L | 2.000000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0410 | 10/17/2003 | FREON-113 | 2.500000 | UG/L | 2.000000 |
| 0410 | 10/17/2003 | Tetrachloroethene | 4.000000 | UG/L | 0.300000 |
| 0410 | 10/17/2003 | Tetrachloroethene | 4.000000 | UG/L | 0.300000 |
| 0410 | 10/17/2003 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| 0410 | 10/17/2003 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| 0410 | 10/17/2003 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0410 | 10/17/2003 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0417 | 03/30/1998 | 1,1,1-Trichloroethane | 2.500000 | UG/L | 0.300000 |
| 0417 | 03/30/1998 | 1,1,1-Trichloroethane | 2.300000 | UG/L | 0.300000 |
| 0417 | 03/30/1998 | Tetrachloroethene | 0.770000 | UG/L | 0.300000 |
| 0417 | 03/30/1998 | Tetrachloroethene | 0.620000 | UG/L | 0.300000 |
| 0417 | 03/30/1998 | Trichloroethylene (TCE) | 1.600000 | UG/L | 1.200000 |
| 0417 | 03/30/1998 | Trichloroethylene (TCE) | 1.800000 | UG/L | 1.200000 |
| 0417 | 06/18/1998 | 1,1,1-Trichloroethane | 5.000000 | UG/L | 0.300000 |
| 0417 | 06/18/1998 | 1,1,1-Trichloroethane | 4.400000 | UG/L | 0.300000 |
| 0417 | 06/18/1998 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| 0417 | 06/18/1998 | Tetrachloroethene | 0.780000 | UG/L | 0.300000 |
| 0417 | 06/18/1998 | Trichloroethylene (TCE) | 2.600000 | UG/L | 1.200000 |
| 0417 | 06/18/1998 | Trichloroethylene (TCE) | 2.600000 | UG/L | 1.200000 |
| 0417 | 10/13/1998 | 1,1,1-Trichloroethane | 1.800000 | UG/L | 0.300000 |
| 0417 | 10/13/1998 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| 0417 | 10/13/1998 | Tetrachloroethene | 0.590000 | UG/L | 0.300000 |
| 0417 | 10/13/1998 | Trichloroethylene (TCE) | 1.500000 | UG/L | 1.200000 |
| 0417 | 10/13/1998 | Trichloroethylene (TCE) | 1.500000 | UG/L | 1.200000 |
| 0417 | 01/07/1999 | 1,1,1-Trichloroethane | 2.700000 | UG/L | 0.300000 |
| 0417 | 01/07/1999 | Tetrachloroethene | 0.560000 | UG/L | 0.300000 |
| 0417 | 04/29/1999 | 1,1,1-Trichloroethane | 4.000000 | UG/L | 0.300000 |
| 0417 | 04/29/1999 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| 0417 | 04/29/1999 | Trichloroethylene (TCE) | 2.100000 | UG/L | 1.200000 |
| 0417 | 06/15/1999 | 1,1,1-Trichloroethane | 4.100000 | UG/L | 0.300000 |
| 0417 | 06/15/1999 | Tetrachloroethene | 0.720000 | UG/L | 0.300000 |
| 0417 | 06/15/1999 | Trichloroethylene (TCE) | 1.400000 | UG/L | 1.200000 |
| 0417 | 08/31/1999 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| 0417 | 08/31/1999 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| 0417 | 08/31/1999 | Tetrachloroethene | 0.390000 | UG/L | 0.300000 |
| 0417 | 08/31/1999 | Tetrachloroethene | 0.560000 | UG/L | 0.300000 |
| 0417 | 01/20/2000 | Bromodichloromethane | 1.100000 | UG/L | 1.000000 |
| 0417 | 01/20/2000 | Trichloromethane | 0.660000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0417 | 04/11/2000 | Bromodichloromethane | 1.900000 | UG/L | 1.000000 |
| 0417 | 04/11/2000 | Dibromochloromethane | 1.400000 | UG/L | 0.900000 |
| 0417 | 04/11/2000 | Tetrachloroethene | 1.200000 | UG/L | 0.300000 |
| 0417 | 04/11/2000 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0417 | 06/20/2000 | 1,1,1-Trichloroethane | 0.350000 | UG/L | 0.300000 |
| 0417 | 06/20/2000 | Bromodichloromethane | 1.300000 | UG/L | 1.000000 |
| 0417 | 06/20/2000 | Dibromochloromethane | 1.800000 | UG/L | 0.900000 |
| 0417 | 06/20/2000 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| 0417 | 06/20/2000 | Trichloroethylene (TCE) | 1.200000 | UG/L | 1.200000 |
| 0417 | 06/20/2000 | Trichloromethane | 0.990000 | UG/L | 0.500000 |
| 0417 | 09/20/2000 | 1,1,1-Trichloroethane | 0.650000 | UG/L | 0.300000 |
| 0417 | 09/20/2000 | Bromodichloromethane | 2.100000 | UG/L | 1.000000 |
| 0417 | 09/20/2000 | Dibromochloromethane | 1.200000 | UG/L | 0.900000 |
| 0417 | 09/20/2000 | Tetrachloroethene | 0.730000 | UG/L | 0.300000 |
| 0417 | 09/20/2000 | Trichloromethane | 2.300000 | UG/L | 0.500000 |
| 0417 | 02/01/2001 | 1,1,1-Trichloroethane | 0.540000 | UG/L | 0.300000 |
| 0417 | 02/01/2001 | Tetrachloroethene | 0.860000 | UG/L | 0.300000 |
| 0417 | 02/01/2001 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0417 | 05/02/2001 | 1,1,1-Trichloroethane | 0.680000 | UG/L | 0.300000 |
| 0417 | 05/02/2001 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0417 | 07/26/2001 | 1,1,1-Trichloroethane | 0.930000 | UG/L | 0.300000 |
| 0417 | 07/26/2001 | Tetrachloroethene | 0.850000 | UG/L | 0.300000 |
| 0417 | 07/26/2001 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0417 | 10/22/2001 | 1,1,1-Trichloroethane | 0.550000 | UG/L | 0.300000 |
| 0417 | 10/22/2001 | 1,1,1-Trichloroethane | 0.410000 | UG/L | 0.300000 |
| 0417 | 10/22/2001 | Tetrachloroethene | 0.800000 | UG/L | 0.300000 |
| 0417 | 10/22/2001 | Tetrachloroethene | 0.860000 | UG/L | 0.300000 |
| 0417 | 10/22/2001 | Trichloromethane | 2.100000 | UG/L | 0.500000 |
| 0417 | 10/22/2001 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0417 | 02/01/2002 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| 0417 | 02/01/2002 | Tetrachloroethene | 0.640000 | UG/L | 0.300000 |
| 0417 | 02/01/2002 | Trichloromethane | 1.000000 | UG/L | 0.500000 |
| 0417 | 04/23/2002 | 1,1,1-Trichloroethane | 0.970000 | UG/L | 0.300000 |
| 0417 | 04/23/2002 | Tetrachloroethene | 0.610000 | UG/L | 0.300000 |
| 0417 | 04/23/2002 | Trichloromethane | 1.800000 | UG/L | 0.500000 |
| 0417 | 07/26/2002 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| 0417 | 07/26/2002 | Tetrachloroethene | 0.780000 | UG/L | 0.300000 |
| 0417 | 07/26/2002 | Trichloromethane | 2.200000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0417 | 11/13/2002 | 1,1,1-Trichloroethane | 0.590000 | UG/L | 0.300000 |
| 0417 | 11/13/2002 | Tetrachloroethene | 0.750000 | UG/L | 0.300000 |
| 0417 | 02/14/2003 | Tetrachloroethene | 0.540000 | UG/L | 0.300000 |
| 0417 | 05/19/2003 | 1,1,1-Trichloroethane | 0.460000 | UG/L | 0.300000 |
| 0417 | 05/19/2003 | 1,1,1-Trichloroethane | 0.460000 | UG/L | 0.300000 |
| 0417 | 05/19/2003 | Tetrachloroethene | 0.980000 | UG/L | 0.300000 |
| 0417 | 05/19/2003 | Tetrachloroethene | 0.980000 | UG/L | 0.300000 |
| 0417 | 05/19/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0417 | 05/19/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0417 | 05/27/2003 | 1,1,1-Trichloroethane | 0.480000 | UG/L | 0.300000 |
| 0417 | 05/27/2003 | 2-Butanone | 2.700000 | UG/L | 2.000000 |
| 0417 | 05/27/2003 | Trichloromethane | 0.960000 | UG/L | 0.500000 |
| 0417 | 06/02/2003 | 1,1,1-Trichloroethane | 0.730000 | UG/L | 0.300000 |
| 0417 | 06/02/2003 | Tetrachloroethene | 0.610000 | UG/L | 0.300000 |
| 0417 | 06/02/2003 | Trichloromethane | 0.810000 | UG/L | 0.500000 |
| 0417 | 06/09/2003 | Tetrachloroethene | 0.800000 | UG/L | 0.300000 |
| 0417 | 06/09/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0417 | 07/14/2003 | Trichloromethane | 1.800000 | UG/L | 0.500000 |
| 0417 | 07/14/2003 | Trichloromethane | 1.800000 | UG/L | 0.500000 |
| 0417 | 08/15/2003 | 1,1,1-Trichloroethane | 0.360000 | UG/L | 0.300000 |
| 0417 | 08/15/2003 | Tetrachloroethene | 1.200000 | UG/L | 0.300000 |
| 0417 | 08/15/2003 | Trichloroethylene (TCE) | 3.000000 | UG/L | 1.200000 |
| 0417 | 08/15/2003 | Trichloromethane | 1.900000 | UG/L | 0.500000 |
| 0417 | 09/16/2003 | 1,1,1-Trichloroethane | 0.510000 | UG/L | 0.300000 |
| 0417 | 09/16/2003 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| 0417 | 09/16/2003 | Trichloroethylene (TCE) | 5.700000 | UG/L | 1.200000 |
| 0417 | 09/16/2003 | Trichloromethane | 2.600000 | UG/L | 0.500000 |
| 0417 | 10/14/2003 | 1,1,1-Trichloroethane | 0.530000 | UG/L | 0.300000 |
| 0417 | 10/14/2003 | 1,1,1-Trichloroethane | 0.530000 | UG/L | 0.300000 |
| 0417 | 10/14/2003 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| 0417 | 10/14/2003 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| 0417 | 10/14/2003 | Trichloroethylene (TCE) | 2.500000 | UG/L | 1.200000 |
| 0417 | 10/14/2003 | Trichloroethylene (TCE) | 2.500000 | UG/L | 1.200000 |
| 0418 | 03/30/1998 | 1,1,1-Trichloroethane | 2.300000 | UG/L | 0.300000 |
| 0418 | 03/30/1998 | 1,1,1-Trichloroethane | 2.400000 | UG/L | 0.300000 |
| 0418 | 03/30/1998 | Tetrachloroethene | 10.000000 | UG/L | 0.300000 |
| 0418 | 03/30/1998 | Tetrachloroethene | 11.000000 | UG/L | 0.300000 |
| 0418 | 03/30/1998 | Trichloroethylene (TCE) | 10.000000 | UG/L | 1.200000 |

# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0418 | 03/30/1998 | Trichloroethylene (TCE) | 13.000000 | UG/L | 1.200000 |
| 0418 | 06/18/1998 | 1,1,1-Trichloroethane | 4.400000 | UG/L | 0.300000 |
| 0418 | 06/18/1998 | 1,1,1-Trichloroethane | 4.000000 | UG/L | 0.300000 |
| 0418 | 06/18/1998 | Tetrachloroethene | 11.000000 | UG/L | 0.300000 |
| 0418 | 06/18/1998 | Tetrachloroethene | 12.000000 | UG/L | 0.300000 |
| 0418 | 06/18/1998 | Trichloroethylene (TCE) | 9.600000 | UG/L | 1.200000 |
| 0418 | 06/18/1998 | Trichloroethylene (TCE) | 12.000000 | UG/L | 1.200000 |
| 0418 | 10/13/1998 | 1,1,1-Trichloroethane | 3.900000 | UG/L | 0.300000 |
| 0418 | 10/13/1998 | 1,1,1-Trichloroethane | 1.700000 | UG/L | 0.300000 |
| 0418 | 10/13/1998 | Tetrachloroethene | 7.500000 | UG/L | 0.300000 |
| 0418 | 10/13/1998 | Tetrachloroethene | 5.300000 | UG/L | 0.300000 |
| 0418 | 10/13/1998 | Trichloroethylene (TCE) | 5.200000 | UG/L | 1.200000 |
| 0418 | 10/13/1998 | Trichloroethylene (TCE) | 3.700000 | UG/L | 1.200000 |
| 0418 | 01/07/1999 | 1,1,1-Trichloroethane | 5.000000 | UG/L | 0.300000 |
| 0418 | 01/07/1999 | Tetrachloroethene | 7.900000 | UG/L | 0.300000 |
| 0418 | 01/07/1999 | Trichloroethylene (TCE) | 5.000000 | UG/L | 1.200000 |
| 0418 | 04/29/1999 | 1,1,1-Trichloroethane | 6.800000 | UG/L | 0.300000 |
| 0418 | 04/29/1999 | Tetrachloroethene | 10.000000 | UG/L | 0.300000 |
| 0418 | 04/29/1999 | Trichloroethylene (TCE) | 8.500000 | UG/L | 1.200000 |
| 0418 | 06/15/1999 | 1,1,1-Trichloroethane | 5.600000 | UG/L | 0.300000 |
| 0418 | 06/15/1999 | Tetrachloroethene | 7.200000 | UG/L | 0.300000 |
| 0418 | 06/15/1999 | Trichloroethylene (TCE) | 5.400000 | UG/L | 1.200000 |
| 0418 | 08/31/1999 | 1,1,1-Trichloroethane | 5.000000 | UG/L | 0.300000 |
| 0418 | 08/31/1999 | 1,1,1-Trichloroethane | 3.900000 | UG/L | 0.300000 |
| 0418 | 08/31/1999 | Tetrachloroethene | 5.100000 | UG/L | 0.300000 |
| 0418 | 08/31/1999 | Tetrachloroethene | 5.100000 | UG/L | 0.300000 |
| 0418 | 08/31/1999 | Trichloroethylene (TCE) | 3.000000 | UG/L | 1.200000 |
| 0418 | 08/31/1999 | Trichloroethylene (TCE) | 2.300000 | UG/L | 1.200000 |
| 0418 | 01/24/2000 | 1,1,1-Trichloroethane | 0.890000 | UG/L | 0.300000 |
| 0418 | 01/24/2000 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| 0418 | 01/24/2000 | Tetrachloroethene | 2.900000 | UG/L | 0.300000 |
| 0418 | 01/24/2000 | Tetrachloroethene | 2.600000 | UG/L | 0.300000 |
| 0418 | 01/24/2000 | Trichloroethylene (TCE) | 3.200000 | UG/L | 1.200000 |
| 0418 | 01/24/2000 | Trichloroethylene (TCE) | 3.300000 | UG/L | 1.200000 |
| 0418 | 01/24/2000 | Trichloromethane | 0.940000 | UG/L | 0.500000 |
| 0418 | 01/24/2000 | Trichloromethane | 0.750000 | UG/L | 0.500000 |
| 0418 | 04/10/2000 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| 0418 | 04/10/2000 | Bromodichloromethane | 1.300000 | UG/L | 1.000000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0418 | 04/10/2000 | Dibromochloromethane | 1.100000 | UG/L | 0.900000 |
| 0418 | 04/10/2000 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| 0418 | 04/10/2000 | Trichloroethylene (TCE) | 2.900000 | UG/L | 1.200000 |
| 0418 | 04/10/2000 | Trichloromethane | 2.000000 | UG/L | 0.500000 |
| 0418 | 06/20/2000 | 1,1,1-Trichloroethane | 0.770000 | UG/L | 0.300000 |
| 0418 | 06/20/2000 | Bromodichloromethane | 2.200000 | UG/L | 1.000000 |
| 0418 | 06/20/2000 | Dibromochloromethane | 1.400000 | UG/L | 0.900000 |
| 0418 | 06/20/2000 | Tetrachloroethene | 1.500000 | UG/L | 0.300000 |
| 0418 | 06/20/2000 | Trichloroethylene (TCE) | 2.000000 | UG/L | 1.200000 |
| 0418 | 06/20/2000 | Trichloromethane | 1.000000 | UG/L | 0.500000 |
| 0418 | 09/20/2000 | 1,1,1-Trichloroethane | 0.880000 | UG/L | 0.300000 |
| 0418 | 09/20/2000 | Bromodichloromethane | 1.900000 | UG/L | 1.000000 |
| 0418 | 09/20/2000 | Dibromochloromethane | 1.400000 | UG/L | 0.900000 |
| 0418 | 09/20/2000 | Tetrachloroethene | 2.400000 | UG/L | 0.300000 |
| 0418 | 09/20/2000 | Trichloroethylene (TCE) | 2.500000 | UG/L | 1.200000 |
| 0418 | 09/20/2000 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0418 | 02/01/2001 | 1,1,1-Trichloroethane | 0.940000 | UG/L | 0.300000 |
| 0418 | 02/01/2001 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| 0418 | 02/01/2001 | Trichloroethylene (TCE) | 2.700000 | UG/L | 1.200000 |
| 0418 | 02/01/2001 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0418 | 05/02/2001 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| 0418 | 05/02/2001 | Tetrachloroethene | 2.000000 | UG/L | 0.300000 |
| 0418 | 05/02/2001 | Trichloroethylene (TCE) | 1.500000 | UG/L | 1.200000 |
| 0418 | 05/02/2001 | Trichloromethane | 2.000000 | UG/L | 0.500000 |
| 0418 | 07/26/2001 | 1,1,1-Trichloroethane | 0.790000 | UG/L | 0.300000 |
| 0418 | 07/26/2001 | Tetrachloroethene | 2.700000 | UG/L | 0.300000 |
| 0418 | 07/26/2001 | Trichloroethylene (TCE) | 2.200000 | UG/L | 1.200000 |
| 0418 | 07/26/2001 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0418 | 10/22/2001 | 1,1,1-Trichloroethane | 0.780000 | UG/L | 0.300000 |
| 0418 | 10/22/2001 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| 0418 | 10/22/2001 | Trichloroethylene (TCE) | 1.600000 | UG/L | 1.200000 |
| 0418 | 10/22/2001 | Trichloromethane | 1.900000 | UG/L | 0.500000 |
| 0418 | 02/01/2002 | 1,1,1-Trichloroethane | 0.950000 | UG/L | 0.300000 |
| 0418 | 02/01/2002 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| 0418 | 02/01/2002 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| 0418 | 02/01/2002 | Trichloromethane | 0.920000 | UG/L | 0.500000 |
| 0418 | 04/22/2002 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| 0418 | 04/22/2002 | Tetrachloroethene | 2.700000 | UG/L | 0.300000 |

E21

# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0418 | 04/22/2002 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| 0418 | 04/22/2002 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| 0418 | 07/29/2002 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| 0418 | 07/29/2002 | Tetrachloroethene | 2.800000 | UG/L | 0.300000 |
| 0418 | 07/29/2002 | Trichloroethylene (TCE) | 2.100000 | UG/L | 1.200000 |
| 0418 | 07/29/2002 | Trichloromethane | 1.800000 | UG/L | 0.500000 |
| 0418 | 11/08/2002 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| 0418 | 11/08/2002 | Trichloroethylene (TCE) | 1.400000 | UG/L | 1.200000 |
| 0418 | 02/14/2003 | 1,1,1-Trichloroethane | 0.840000 | UG/L | 0.300000 |
| 0418 | 02/14/2003 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| 0418 | 02/14/2003 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| 0418 | 06/09/2003 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| 0418 | 06/09/2003 | 2-Butanone | 2.700000 | UG/L | 2.000000 |
| 0418 | 06/09/2003 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| 0418 | 06/09/2003 | Trichloroethylene (TCE) | 1.800000 | UG/L | 1.200000 |
| 0418 | 06/09/2003 | Trichloromethane | 0.710000 | UG/L | 0.500000 |
| 0418 | 07/17/2003 | 1,1,1-Trichloroethane | 0.760000 | UG/L | 0.300000 |
| 0418 | 07/17/2003 | Tetrachloroethene | 2.300000 | UG/L | 0.300000 |
| 0418 | 07/17/2003 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| 0418 | 07/17/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0418 | 10/14/2003 | 1,1,1-Trichloroethane | 0.920000 | UG/L | 0.300000 |
| 0418 | 10/14/2003 | 1,1,1-Trichloroethane | 0.920000 | UG/L | 0.300000 |
| 0418 | 10/14/2003 | 1,2-cis-Dichloroethene | 1.000000 | UG/L | 1.000000 |
| 0418 | 10/14/2003 | 1,2-cis-Dichloroethene | 1.000000 | UG/L | 1.000000 |
| 0418 | 10/14/2003 | Tetrachloroethene | 2.300000 | UG/L | 0.300000 |
| 0418 | 10/14/2003 | Tetrachloroethene | 2.300000 | UG/L | 0.300000 |
| 0418 | 10/14/2003 | Trichloroethylene (TCE) | 2.900000 | UG/L | 1.200000 |
| 0418 | 10/14/2003 | Trichloroethylene (TCE) | 2.900000 | UG/L | 1.200000 |
| 0418 | 10/14/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0418 | 10/14/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0419 | 03/26/1998 | 1,2-cis-Dichloroethene | 4.600000 | UG/L | 1.000000 |
| 0419 | 03/26/1998 | 1,2-cis-Dichloroethene | 5.300000 | UG/L | 1.000000 |
| 0419 | 03/26/1998 | FREON-113 | 3.300000 | UG/L | 2.000000 |
| 0419 | 03/26/1998 | FREON-113 | 3.000000 | UG/L | 2.000000 |
| 0419 | 03/26/1998 | Tetrachloroethene | 13.000000 | UG/L | 0.300000 |
| 0419 | 03/26/1998 | Tetrachloroethene | 18.000000 | UG/L | 0.300000 |
| 0419 | 03/26/1998 | Trichloroethylene (TCE) | 34.000000 | UG/L | 1.200000 |
| 0419 | 03/26/1998 | Trichloroethylene (TCE) | 35.000000 | UG/L | 1.200000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0419 | 03/26/1998 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0419 | 03/26/1998 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0419 | 06/25/1998 | 1,2-cis-Dichloroethene | 4.000000 | UG/L | 1.000000 |
| 0419 | 06/25/1998 | 1,2-cis-Dichloroethene | 3.500000 | UG/L | 1.000000 |
| 0419 | 06/25/1998 | Tetrachloroethene | 8.000000 | UG/L | 0.300000 |
| 0419 | 06/25/1998 | Tetrachloroethene | 8.800000 | UG/L | 0.300000 |
| 0419 | 06/25/1998 | Trichloroethylene (TCE) | 18.000000 | UG/L | 1.200000 |
| 0419 | 06/25/1998 | Trichloroethylene (TCE) | 21.000000 | UG/L | 1.200000 |
| 0419 | 06/25/1998 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0419 | 06/25/1998 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0419 | 10/13/1998 | 1,2-cis-Dichloroethene | 14.000000 | UG/L | 1.000000 |
| 0419 | 10/13/1998 | FREON-113 | 2.400000 | UG/L | 2.000000 |
| 0419 | 10/13/1998 | Tetrachloroethene | 11.000000 | UG/L | 0.300000 |
| 0419 | 10/13/1998 | Trichloroethylene (TCE) | 28.000000 | UG/L | 1.200000 |
| 0419 | 10/13/1998 | Trichloromethane | 2.100000 | UG/L | 0.500000 |
| 0419 | 01/08/1999 | 1,2-cis-Dichloroethene | 75.000000 | UG/L | 2.000000 |
| 0419 | 01/08/1999 | 1,2-cis-Dichloroethene | 56.000000 | UG/L | 2.000000 |
| 0419 | 01/08/1999 | Tetrachloroethene | 18.000000 | UG/L | 0.600000 |
| 0419 | 01/08/1999 | Tetrachloroethene | 12.000000 | UG/L | 0.600000 |
| 0419 | 01/08/1999 | Trichloroethylene (TCE) | 43.000000 | UG/L | 2.400000 |
| 0419 | 01/08/1999 | Trichloroethylene (TCE) | 29.000000 | UG/L | 2.400000 |
| 0419 | 01/08/1999 | Trichloromethane | 2.300000 | UG/L | 1.000000 |
| 0419 | 01/08/1999 | Trichloromethane | 2.500000 | UG/L | 1.000000 |
| 0419 | 04/30/1999 | 1,2-cis-Dichloroethene | 3.500000 | UG/L | 1.000000 |
| 0419 | 04/30/1999 | Carbon Tetrachloride | 1.400000 | UG/L | 1.200000 |
| 0419 | 04/30/1999 | Tetrachloroethene | 16.000000 | UG/L | 0.300000 |
| 0419 | 04/30/1999 | Trichloroethylene (TCE) | 44.000000 | UG/L | 1.200000 |
| 0419 | 04/30/1999 | Trichloromethane | 1.800000 | UG/L | 0.500000 |
| 0419 | 06/15/1999 | 1,2-cis-Dichloroethene | 1.900000 | UG/L | 1.000000 |
| 0419 | 06/15/1999 | FREON-113 | 2.100000 | UG/L | 2.000000 |
| 0419 | 06/15/1999 | Tetrachloroethene | 14.000000 | UG/L | 0.300000 |
| 0419 | 06/15/1999 | Trichloroethylene (TCE) | 40.000000 | UG/L | 1.200000 |
| 0419 | 06/15/1999 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0419 | 08/31/1999 | 1,2-cis-Dichloroethene | 23.000000 | UG/L | 1.000000 |
| 0419 | 08/31/1999 | 1,2-cis-Dichloroethene | 27.000000 | UG/L | 1.000000 |
| 0419 | 08/31/1999 | Carbon Tetrachloride | 1.300000 | UG/L | 1.200000 |
| 0419 | 08/31/1999 | Carbon Tetrachloride | 1.700000 | UG/L | 1.200000 |
| 0419 | 08/31/1999 | FREON-113 | 3.000000 | UG/L | 2.000000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0419 | 08/31/1999 | FREON-113 | 2.400000 | UG/L | 2.000000 |
| 0419 | 08/31/1999 | Tetrachloroethene | 11.000000 | UG/L | 0.300000 |
| 0419 | 08/31/1999 | Tetrachloroethene | 14.000000 | UG/L | 0.300000 |
| 0419 | 08/31/1999 | Trichloroethylene (TCE) | 33.000000 | UG/L | 1.200000 |
| 0419 | 08/31/1999 | Trichloroethylene (TCE) | 37.000000 | UG/L | 1.200000 |
| 0419 | 08/31/1999 | Trichloromethane | 2.000000 | UG/L | 0.500000 |
| 0419 | 08/31/1999 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0419 | 01/24/2000 | 1,2-cis-Dichloroethene | 20.000000 | UG/L | 1.000000 |
| 0419 | 01/24/2000 | Carbon Tetrachloride | 1.900000 | UG/L | 1.200000 |
| 0419 | 01/24/2000 | FREON-113 | 2.300000 | UG/L | 2.000000 |
| 0419 | 01/24/2000 | Tetrachloroethene | 12.000000 | UG/L | 0.300000 |
| 0419 | 01/24/2000 | Trichloroethylene (TCE) | 30.000000 | UG/L | 1.200000 |
| 0419 | 01/24/2000 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0419 | 04/10/2000 | 1,2-cis-Dichloroethene | 14.000000 | UG/L | 1.000000 |
| 0419 | 04/10/2000 | Carbon Tetrachloride | 1.900000 | UG/L | 1.200000 |
| 0419 | 04/10/2000 | Tetrachloroethene | 10.000000 | UG/L | 0.300000 |
| 0419 | 04/10/2000 | Trichloroethylene (TCE) | 21.000000 | UG/L | 1.200000 |
| 0419 | 04/10/2000 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| 0419 | 06/20/2000 | 1,2-cis-Dichloroethene | 5.500000 | UG/L | 1.000000 |
| 0419 | 06/20/2000 | Carbon Tetrachloride | 1.300000 | UG/L | 1.200000 |
| 0419 | 06/20/2000 | FREON-113 | 2.400000 | UG/L | 2.000000 |
| 0419 | 06/20/2000 | Tetrachloroethene | 7.200000 | UG/L | 0.300000 |
| 0419 | 06/20/2000 | Trichloroethylene (TCE) | 19.000000 | UG/L | 1.200000 |
| 0419 | 06/20/2000 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0419 | 09/20/2000 | 1,1,1-Trichloroethane | 0.360000 | UG/L | 0.300000 |
| 0419 | 09/20/2000 | 1,2-cis-Dichloroethene | 40.000000 | UG/L | 1.000000 |
| 0419 | 09/20/2000 | Carbon Tetrachloride | 1.700000 | UG/L | 1.200000 |
| 0419 | 09/20/2000 | Tetrachloroethene | 10.000000 | UG/L | 0.300000 |
| 0419 | 09/20/2000 | Trichloroethylene (TCE) | 26.000000 | UG/L | 1.200000 |
| 0419 | 09/20/2000 | Trichloromethane | 2.600000 | UG/L | 0.500000 |
| 0419 | 02/20/2001 | 1,2-cis-Dichloroethene | 38.000000 | UG/L | 1.000000 |
| 0419 | 02/20/2001 | 1,2-trans-Dichloroethene | 1.800000 | UG/L | 1.000000 |
| 0419 | 02/20/2001 | Carbon Tetrachloride | 1.400000 | UG/L | 1.200000 |
| 0419 | 02/20/2001 | FREON-113 | 3.600000 | UG/L | 2.000000 |
| 0419 | 02/20/2001 | Tetrachloroethene | 8.700000 | UG/L | 0.300000 |
| 0419 | 02/20/2001 | Trichloroethylene (TCE) | 20.000000 | UG/L | 1.200000 |
| 0419 | 02/20/2001 | Trichloromethane | 2.000000 | UG/L | 0.500000 |
| 0419 | 05/02/2001 | 1,2-cis-Dichloroethene | 15.000000 | UG/L | 1.000000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0419 | 05/02/2001 | FREON-113 | 2.700000 | UG/L | 2.000000 |
| 0419 | 05/02/2001 | Tetrachloroethene | 9.800000 | UG/L | 0.300000 |
| 0419 | 05/02/2001 | Trichloroethylene (TCE) | 22.000000 | UG/L | 1.200000 |
| 0419 | 05/02/2001 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0419 | 07/26/2001 | 1,2-cis-Dichloroethene | 3.100000 | UG/L | 1.000000 |
| 0419 | 07/26/2001 | FREON-113 | 3.200000 | UG/L | 2.000000 |
| 0419 | 07/26/2001 | Tetrachloroethene | 11.000000 | UG/L | 0.300000 |
| 0419 | 07/26/2001 | Trichloroethylene (TCE) | 23.000000 | UG/L | 1.200000 |
| 0419 | 07/26/2001 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0419 | 10/23/2001 | 1,2-cis-Dichloroethene | 2.600000 | UG/L | 1.000000 |
| 0419 | 10/23/2001 | Carbon Tetrachloride | 2.200000 | UG/L | 1.200000 |
| 0419 | 10/23/2001 | Tetrachloroethene | 7.800000 | UG/L | 0.300000 |
| 0419 | 10/23/2001 | Trichloroethylene (TCE) | 21.000000 | UG/L | 1.200000 |
| 0419 | 10/23/2001 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0419 | 01/31/2002 | Tetrachloroethene | 8.900000 | UG/L | 0.300000 |
| 0419 | 01/31/2002 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0419 | 04/23/2002 | Tetrachloroethene | 3.100000 | UG/L | 0.300000 |
| 0419 | 04/23/2002 | Trichloroethylene (TCE) | 4.300000 | UG/L | 1.200000 |
| 0419 | 07/29/2002 | Tetrachloroethene | 5.800000 | UG/L | 0.300000 |
| 0419 | 07/29/2002 | Trichloroethylene (TCE) | 9.100000 | UG/L | 1.200000 |
| 0419 | 11/13/2002 | 1,2-cis-Dichloroethene | 9.200000 | UG/L | 1.000000 |
| 0419 | 11/13/2002 | Tetrachloroethene | 7.200000 | UG/L | 0.300000 |
| 0419 | 11/13/2002 | Trichloroethylene (TCE) | 16.000000 | UG/L | 1.200000 |
| 0419 | 02/19/2003 | Tetrachloroethene | 5.400000 | UG/L | 0.300000 |
| 0419 | 02/19/2003 | Trichloroethylene (TCE) | 9.300000 | UG/L | 1.200000 |
| 0419 | 05/19/2003 | Carbon Tetrachloride | 1.500000 | UG/L | 1.200000 |
| 0419 | 05/19/2003 | Carbon Tetrachloride | 1.500000 | UG/L | 1.200000 |
| 0419 | 05/19/2003 | FREON-113 | 2.800000 | UG/L | 2.000000 |
| 0419 | 05/19/2003 | FREON-113 | 2.800000 | UG/L | 2.000000 |
| 0419 | 05/19/2003 | Tetrachloroethene | 5.400000 | UG/L | 0.300000 |
| 0419 | 05/19/2003 | Tetrachloroethene | 5.400000 | UG/L | 0.300000 |
| 0419 | 05/19/2003 | Trichloroethylene (TCE) | 11.000000 | UG/L | 1.200000 |
| 0419 | 05/19/2003 | Trichloroethylene (TCE) | 11.000000 | UG/L | 1.200000 |
| 0419 | 05/19/2003 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0419 | 05/19/2003 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0419 | 05/27/2003 | 1,2-cis-Dichloroethene | 3.600000 | UG/L | 1.000000 |
| 0419 | 05/27/2003 | 2-Butanone | 2.100000 | UG/L | 2.000000 |
| 0419 | 05/27/2003 | Tetrachloroethene | 5.300000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0419 | 05/27/2003 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0419 | 05/27/2003 | Trichloromethane | 0.720000 | UG/L | 0.500000 |
| 0419 | 06/02/2003 | 1,2-cis-Dichloroethene | 5.100000 | UG/L | 1.000000 |
| 0419 | 06/02/2003 | Tetrachloroethene | 4.800000 | UG/L | 0.300000 |
| 0419 | 06/02/2003 | Trichloroethylene (TCE) | 14.000000 | UG/L | 1.200000 |
| 0419 | 06/02/2003 | Trichloromethane | 0.820000 | UG/L | 0.500000 |
| 0419 | 06/09/2003 | 1,2-cis-Dichloroethene | 5.000000 | UG/L | 1.000000 |
| 0419 | 06/09/2003 | Tetrachloroethene | 5.000000 | UG/L | 0.300000 |
| 0419 | 06/09/2003 | Trichloroethylene (TCE) | 16.000000 | UG/L | 1.200000 |
| 0419 | 06/09/2003 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0419 | 06/30/2003 | Carbon Tetrachloride | 2.200000 | UG/L | 1.200000 |
| 0419 | 06/30/2003 | FREON-113 | 2.200000 | UG/L | 2.000000 |
| 0419 | 06/30/2003 | Tetrachloroethene | 4.100000 | UG/L | 0.300000 |
| 0419 | 06/30/2003 | Trichloroethylene (TCE) | 14.000000 | UG/L | 1.200000 |
| 0419 | 06/30/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0419 | 07/14/2003 | Carbon Tetrachloride | 1.200000 | UG/L | 1.200000 |
| 0419 | 07/14/2003 | Carbon Tetrachloride | 1.200000 | UG/L | 1.200000 |
| 0419 | 07/14/2003 | Tetrachloroethene | 4.700000 | UG/L | 0.300000 |
| 0419 | 07/14/2003 | Tetrachloroethene | 4.700000 | UG/L | 0.300000 |
| 0419 | 07/14/2003 | Trichloroethylene (TCE) | 8.300000 | UG/L | 1.200000 |
| 0419 | 07/14/2003 | Trichloroethylene (TCE) | 8.300000 | UG/L | 1.200000 |
| 0419 | 07/14/2003 | Trichloromethane | 0.980000 | UG/L | 0.500000 |
| 0419 | 07/14/2003 | Trichloromethane | 0.980000 | UG/L | 0.500000 |
| 0419 | 08/13/2003 | 1,1,1-Trichloroethane | 1.600000 | UG/L | 0.300000 |
| 0419 | 08/13/2003 | Tetrachloroethene | 5.100000 | UG/L | 0.300000 |
| 0419 | 08/13/2003 | Trichloroethylene (TCE) | 15.000000 | UG/L | 1.200000 |
| 0419 | 08/13/2003 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0419 | 09/16/2003 | Carbon Tetrachloride | 1.600000 | UG/L | 1.200000 |
| 0419 | 09/16/2003 | Tetrachloroethene | 5.200000 | UG/L | 0.300000 |
| 0419 | 09/16/2003 | Trichloroethylene (TCE) | 9.000000 | UG/L | 1.200000 |
| 0419 | 09/16/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0419 | 10/17/2003 | 1,2-cis-Dichloroethene | 2.300000 | UG/L | 1.000000 |
| 0419 | 10/17/2003 | 1,2-cis-Dichloroethene | 2.300000 | UG/L | 1.000000 |
| 0419 | 10/17/2003 | Carbon Tetrachloride | 1.400000 | UG/L | 1.200000 |
| 0419 | 10/17/2003 | Carbon Tetrachloride | 1.400000 | UG/L | 1.200000 |
| 0419 | 10/17/2003 | Tetrachloroethene | 5.000000 | UG/L | 0.300000 |
| 0419 | 10/17/2003 | Tetrachloroethene | 5.000000 | UG/L | 0.300000 |
| 0419 | 10/17/2003 | Trichloroethylene (TCE) | 12.000000 | UG/L | 1.200000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0419 | 10/17/2003 | Trichloroethylene (TCE) | 12.000000 | UG/L | 1.200000 |
| 0419 | 10/17/2003 | Trichloromethane | 0.950000 | UG/L | 0.500000 |
| 0419 | 10/17/2003 | Trichloromethane | 0.950000 | UG/L | 0.500000 |
| 0424 | 03/23/1998 | 1,1,1-Trichloroethane | 3.700000 | UG/L | 0.300000 |
| 0424 | 03/23/1998 | 1,1,1-Trichloroethane | 4.100000 | UG/L | 0.300000 |
| 0424 | 03/23/1998 | Tetrachloroethene | 0.370000 | UG/L | 0.300000 |
| 0424 | 03/23/1998 | Tetrachloroethene | 0.530000 | UG/L | 0.300000 |
| 0424 | 06/18/1998 | 1,1,1-Trichloroethane | 4.500000 | UG/L | 0.300000 |
| 0424 | 06/18/1998 | 1,1,1-Trichloroethane | 4.500000 | UG/L | 0.300000 |
| 0424 | 06/18/1998 | Tetrachloroethene | 0.710000 | UG/L | 0.300000 |
| 0424 | 06/18/1998 | Tetrachloroethene | 0.470000 | UG/L | 0.300000 |
| 0424 | 10/07/1998 | 1,1,1-Trichloroethane | 7.100000 | UG/L | 0.300000 |
| 0424 | 10/07/1998 | 1,1,1-Trichloroethane | 6.400000 | UG/L | 0.300000 |
| 0424 | 10/07/1998 | Trichloroethylene (TCE) | 1.100000 | UG/L | 1.200000 |
| 0424 | 10/07/1998 | Trichloroethylene (TCE) | 1.200000 | UG/L | 1.200000 |
| 0424 | 01/06/1999 | 1,1,1-Trichloroethane | 6.900000 | UG/L | 0.300000 |
| 0424 | 01/06/1999 | Tetrachloroethene | 0.640000 | UG/L | 0.300000 |
| 0424 | 04/28/1999 | 1,1,1-Trichloroethane | 7.500000 | UG/L | 0.300000 |
| 0424 | 04/28/1999 | Tetrachloroethene | 0.690000 | UG/L | 0.300000 |
| 0424 | 06/17/1999 | 1,1,1-Trichloroethane | 5.800000 | UG/L | 0.300000 |
| 0424 | 09/01/1999 | 1,1,1-Trichloroethane | 5.100000 | UG/L | 0.300000 |
| 0424 | 09/01/1999 | 1,1,1-Trichloroethane | 4.200000 | UG/L | 0.300000 |
| 0424 | 09/01/1999 | Tetrachloroethene | 0.340000 | UG/L | 0.300000 |
| 0424 | 09/01/1999 | Tetrachloroethene | 0.380000 | UG/L | 0.300000 |
| 0424 | 01/20/2000 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| 0424 | 01/20/2000 | 1,1,1-Trichloroethane | 1.600000 | UG/L | 0.300000 |
| 0424 | 01/20/2000 | Bromodichloromethane | 1.100000 | UG/L | 1.000000 |
| 0424 | 01/20/2000 | Bromodichloromethane | 1.200000 | UG/L | 1.000000 |
| 0424 | 01/20/2000 | Tetrachloroethene | 0.960000 | UG/L | 0.300000 |
| 0424 | 01/20/2000 | Tetrachloroethene | 0.950000 | UG/L | 0.300000 |
| 0424 | 01/20/2000 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0424 | 01/20/2000 | Trichloromethane | 0.570000 | UG/L | 0.500000 |
| 0424 | 04/11/2000 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| 0424 | 04/11/2000 | Bromodichloromethane | 1.800000 | UG/L | 1.000000 |
| 0424 | 04/11/2000 | Dibromochloromethane | 1.800000 | UG/L | 0.900000 |
| 0424 | 04/11/2000 | Tetrachloroethene | 0.900000 | UG/L | 0.300000 |
| 0424 | 04/11/2000 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| 0424 | 04/11/2000 | Trichloromethane | 1.300000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0424 | 06/21/2000 | 1,1,1-Trichloroethane | 0.730000 | UG/L | 0.300000 |
| 0424 | 06/21/2000 | Bromodichloromethane | 1.200000 | UG/L | 1.000000 |
| 0424 | 06/21/2000 | Dibromochloromethane | 1.700000 | UG/L | 0.900000 |
| 0424 | 06/21/2000 | Tetrachloroethene | 0.580000 | UG/L | 0.300000 |
| 0424 | 06/21/2000 | Trichloroethylene (TCE) | 1.200000 | UG/L | 1.200000 |
| 0424 | 06/21/2000 | Trichloromethane | 0.910000 | UG/L | 0.500000 |
| 0424 | 09/19/2000 | 1,1,1-Trichloroethane | 0.970000 | UG/L | 0.300000 |
| 0424 | 09/19/2000 | Bromodichloromethane | 1.500000 | UG/L | 1.000000 |
| 0424 | 09/19/2000 | Dibromochloromethane | 1.100000 | UG/L | 0.900000 |
| 0424 | 09/19/2000 | Tetrachloroethene | 0.680000 | UG/L | 0.300000 |
| 0424 | 09/19/2000 | Trichloromethane | 0.830000 | UG/L | 0.500000 |
| 0424 | 01/31/2001 | 1,1,1-Trichloroethane | 3.100000 | UG/L | 0.300000 |
| 0424 | 01/31/2001 | Tetrachloroethene | 0.760000 | UG/L | 0.300000 |
| 0424 | 01/31/2001 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0424 | 05/01/2001 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| 0424 | 05/01/2001 | Tetrachloroethene | 0.740000 | UG/L | 0.300000 |
| 0424 | 05/01/2001 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0424 | 07/23/2001 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| 0424 | 07/23/2001 | Tetrachloroethene | 0.490000 | UG/L | 0.300000 |
| 0424 | 07/23/2001 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| 0424 | 10/17/2001 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| 0424 | 10/17/2001 | Tetrachloroethene | 0.460000 | UG/L | 0.300000 |
| 0424 | 10/17/2001 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0424 | 01/23/2002 | 1,1,1-Trichloroethane | 0.800000 | UG/L | 0.300000 |
| 0424 | 01/23/2002 | Tetrachloroethene | 0.350000 | UG/L | 0.300000 |
| 0424 | 01/23/2002 | Trichloromethane | 0.850000 | UG/L | 0.500000 |
| 0424 | 04/19/2002 | 1,1,1-Trichloroethane | 0.840000 | UG/L | 0.300000 |
| 0424 | 07/29/2002 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| 0424 | 07/29/2002 | Tetrachloroethene | 0.380000 | UG/L | 0.300000 |
| 0424 | 02/13/2003 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| 0424 | 04/30/2003 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| 0424 | 07/16/2003 | 1,1,1-Trichloroethane | 0.530000 | UG/L | 0.300000 |
| 0424 | 07/16/2003 | Trichloromethane | 1.400000 | UG/L | 0.500000 |
| 0424 | 10/14/2003 | 1,1,1-Trichloroethane | 0.960000 | UG/L | 0.300000 |
| 0424 | 10/14/2003 | 1,1,1-Trichloroethane | 0.960000 | UG/L | 0.300000 |
| 0424 | 10/14/2003 | Tetrachloroethene | 0.680000 | UG/L | 0.300000 |
| 0424 | 10/14/2003 | Tetrachloroethene | 0.680000 | UG/L | 0.300000 |
| 0424 | 10/14/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0424 | 10/14/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |
| 0425 | 03/23/1998 | 1,1,1-Trichloroethane | 5.800000 | UG/L | 0.300000 |
| 0425 | 03/23/1998 | 1,1,1-Trichloroethane | 6.800000 | UG/L | 0.300000 |
| 0425 | 03/23/1998 | Tetrachloroethene | 0.460000 | UG/L | 0.300000 |
| 0425 | 03/23/1998 | Tetrachloroethene | 0.500000 | UG/L | 0.300000 |
| 0425 | 06/18/1998 | 1,1,1-Trichloroethane | 7.000000 | UG/L | 0.300000 |
| 0425 | 06/18/1998 | 1,1,1-Trichloroethane | 8.100000 | UG/L | 0.300000 |
| 0425 | 06/18/1998 | Tetrachloroethene | 0.480000 | UG/L | 0.300000 |
| 0425 | 06/18/1998 | Tetrachloroethene | 0.340000 | UG/L | 0.300000 |
| 0425 | 01/06/1999 | 1,1,1-Trichloroethane | 9.000000 | UG/L | 0.300000 |
| 0425 | 01/06/1999 | 1,1,1-Trichloroethane | 9.100000 | UG/L | 0.300000 |
| 0425 | 01/06/1999 | Tetrachloroethene | 0.350000 | UG/L | 0.300000 |
| 0425 | 01/06/1999 | Tetrachloroethene | 0.300000 | UG/L | 0.300000 |
| 0425 | 04/28/1999 | 1,1,1-Trichloroethane | 12.000000 | UG/L | 0.300000 |
| 0425 | 04/28/1999 | Tetrachloroethene | 0.610000 | UG/L | 0.300000 |
| 0425 | 06/17/1999 | 1,1,1-Trichloroethane | 8.700000 | UG/L | 0.300000 |
| 0425 | 06/17/1999 | Tetrachloroethene | 0.450000 | UG/L | 0.300000 |
| 0425 | 09/01/1999 | 1,1,1-Trichloroethane | 5.600000 | UG/L | 0.300000 |
| 0425 | 09/01/1999 | 1,1,1-Trichloroethane | 4.800000 | UG/L | 0.300000 |
| 0425 | 09/01/1999 | 1,1,1-Trichloroethane | 4.900000 | UG/L | 0.300000 |
| 0425 | 09/01/1999 | 1,1,1-Trichloroethane | 5.100000 | UG/L | 0.300000 |
| 0425 | 01/20/2000 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| 0425 | 01/20/2000 | Tetrachloroethene | 1.300000 | UG/L | 0.300000 |
| 0425 | 01/20/2000 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0425 | 04/11/2000 | 1,1,1-Trichloroethane | 0.570000 | UG/L | 0.300000 |
| 0425 | 04/11/2000 | Bromodichloromethane | 1.400000 | UG/L | 1.000000 |
| 0425 | 04/11/2000 | Dibromochloromethane | 1.700000 | UG/L | 0.900000 |
| 0425 | 04/11/2000 | Tetrachloroethene | 0.890000 | UG/L | 0.300000 |
| 0425 | 06/21/2000 | 1,1,1-Trichloroethane | 0.580000 | UG/L | 0.300000 |
| 0425 | 06/21/2000 | Bromodichloromethane | 1.400000 | UG/L | 1.000000 |
| 0425 | 06/21/2000 | Dibromochloromethane | 2.000000 | UG/L | 0.900000 |
| 0425 | 06/21/2000 | Tetrachloroethene | 0.730000 | UG/L | 0.300000 |
| 0425 | 06/21/2000 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| 0425 | 09/19/2000 | 1,1,1-Trichloroethane | 0.940000 | UG/L | 0.300000 |
| 0425 | 09/19/2000 | Bromodichloromethane | 1.700000 | UG/L | 1.000000 |
| 0425 | 09/19/2000 | Dibromochloromethane | 1.200000 | UG/L | 0.900000 |
| 0425 | 09/19/2000 | Tetrachloroethene | 0.860000 | UG/L | 0.300000 |
| 0425 | 09/19/2000 | Trichloromethane | 1.300000 | UG/L | 0.500000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| 0425 | 01/31/2001 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| 0425 | 01/31/2001 | Tetrachloroethene | 0.800000 | UG/L | 0.300000 |
| 0425 | 01/31/2001 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| 0425 | 05/01/2001 | 1,1,1-Trichloroethane | 1.600000 | UG/L | 0.300000 |
| 0425 | 05/01/2001 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| 0425 | 07/23/2001 | 1,1,1-Trichloroethane | 1.600000 | UG/L | 0.300000 |
| 0425 | 07/23/2001 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| 0425 | 10/17/2001 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| 0425 | 10/17/2001 | Tetrachloroethene | 0.370000 | UG/L | 0.300000 |
| 0425 | 10/17/2001 | Trichloromethane | 1.900000 | UG/L | 0.500000 |
| 0425 | 01/24/2002 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| 0425 | 01/24/2002 | Tetrachloroethene | 0.300000 | UG/L | 0.300000 |
| 0425 | 01/24/2002 | Trichloromethane | 0.640000 | UG/L | 0.500000 |
| 0425 | 04/19/2002 | 1,1,1-Trichloroethane | 1.600000 | UG/L | 0.300000 |
| 0425 | 07/29/2002 | 1,1,1-Trichloroethane | 0.630000 | UG/L | 0.300000 |
| 0425 | 02/13/2003 | 1,1,1-Trichloroethane | 0.940000 | UG/L | 0.300000 |
| 0425 | 06/10/2003 | 1,1,1-Trichloroethane | 0.720000 | UG/L | 0.300000 |
| 0425 | 06/10/2003 | 1,1,1-Trichloroethane | 0.720000 | UG/L | 0.300000 |
| 0425 | 06/10/2003 | 2-Butanone | 2.500000 | UG/L | 2.000000 |
| 0425 | 06/10/2003 | 2-Butanone | 2.500000 | UG/L | 2.000000 |
| 0425 | 06/10/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |
| 0425 | 06/10/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |
| 0425 | 07/15/2003 | 1,1,1-Trichloroethane | 0.640000 | UG/L | 0.300000 |
| 0425 | 07/15/2003 | 1,1,1-Trichloroethane | 0.640000 | UG/L | 0.300000 |
| 0425 | 07/15/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0425 | 07/15/2003 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| 0425 | 08/14/2003 | 1,1,1-Trichloroethane | 0.770000 | UG/L | 0.300000 |
| 0425 | 08/14/2003 | Tetrachloroethene | 0.440000 | UG/L | 0.300000 |
| 0425 | 08/14/2003 | Trichloromethane | 0.790000 | UG/L | 0.500000 |
| 0425 | 09/16/2003 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| 0425 | 09/16/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| 0425 | 10/14/2003 | 1,1,1-Trichloroethane | 0.910000 | UG/L | 0.300000 |
| 0425 | 10/14/2003 | 1,1,1-Trichloroethane | 0.910000 | UG/L | 0.300000 |
| 0425 | 10/14/2003 | Tetrachloroethene | 0.830000 | UG/L | 0.300000 |
| 0425 | 10/14/2003 | Tetrachloroethene | 0.830000 | UG/L | 0.300000 |
| 0425 | 10/14/2003 | Trichloromethane | 0.820000 | UG/L | 0.500000 |
| 0425 | 10/14/2003 | Trichloromethane | 0.820000 | UG/L | 0.500000 |
| P015 | 04/01/1998 | 1,2-cis-Dichloroethene | 14.000000 | UG/L | 1.000000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P015 | 04/01/1998 | 1,2-cis-Dichloroethene | 17.000000 | UG/L | 1.000000 |
| P015 | 04/01/1998 | Tetrachloroethene | 3.900000 | UG/L | 0.300000 |
| P015 | 04/01/1998 | Tetrachloroethene | 5.000000 | UG/L | 0.300000 |
| P015 | 04/01/1998 | Trichloroethylene (TCE) | 19.000000 | UG/L | 1.200000 |
| P015 | 04/01/1998 | Trichloroethylene (TCE) | 19.000000 | UG/L | 1.200000 |
| P015 | 04/01/1998 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| P015 | 04/01/1998 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| P015 | 06/24/1998 | 1,2-cis-Dichloroethene | 7.000000 | UG/L | 1.000000 |
| P015 | 06/24/1998 | 1,2-cis-Dichloroethene | 8.400000 | UG/L | 1.000000 |
| P015 | 06/24/1998 | Tetrachloroethene | 3.500000 | UG/L | 0.300000 |
| P015 | 06/24/1998 | Tetrachloroethene | 5.400000 | UG/L | 0.300000 |
| P015 | 06/24/1998 | Trichloroethylene (TCE) | 10.000000 | UG/L | 1.200000 |
| P015 | 06/24/1998 | Trichloroethylene (TCE) | 19.000000 | UG/L | 1.200000 |
| P015 | 06/24/1998 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P015 | 06/24/1998 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| P015 | 10/14/1998 | 1,2-cis-Dichloroethene | 4.200000 | UG/L | 1.000000 |
| P015 | 10/14/1998 | 1,2-cis-Dichloroethene | 3.700000 | UG/L | 1.000000 |
| P015 | 10/14/1998 | Tetrachloroethene | 5.400000 | UG/L | 0.300000 |
| P015 | 10/14/1998 | Tetrachloroethene | 5.400000 | UG/L | 0.300000 |
| P015 | 10/14/1998 | Trichloroethylene (TCE) | 19.000000 | UG/L | 1.200000 |
| P015 | 10/14/1998 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| P015 | 10/14/1998 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| P015 | 10/14/1998 | Trichloromethane | 2.000000 | UG/L | 0.500000 |
| P015 | 01/19/1999 | 1,2-cis-Dichloroethene | 4.400000 | UG/L | 1.000000 |
| P015 | 01/19/1999 | 1,2-cis-Dichloroethene | 4.100000 | UG/L | 1.000000 |
| P015 | 01/19/1999 | Tetrachloroethene | 8.300000 | UG/L | 0.300000 |
| P015 | 01/19/1999 | Tetrachloroethene | 7.200000 | UG/L | 0.300000 |
| P015 | 01/19/1999 | Trichloroethylene (TCE) | 26.000000 | UG/L | 1.200000 |
| P015 | 01/19/1999 | Trichloroethylene (TCE) | 24.000000 | UG/L | 1.200000 |
| P015 | 01/19/1999 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| P015 | 01/19/1999 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| P015 | 04/27/1999 | 1,2-cis-Dichloroethene | 6.900000 | UG/L | 1.000000 |
| P015 | 04/27/1999 | 1,2-trans-Dichloroethene | 1.000000 | UG/L | 1.000000 |
| P015 | 04/27/1999 | Tetrachloroethene | 8.300000 | UG/L | 0.300000 |
| P015 | 04/27/1999 | Trichloroethylene (TCE) | 25.000000 | UG/L | 1.200000 |
| P015 | 04/27/1999 | Trichloromethane | 1.900000 | UG/L | 0.500000 |
| P015 | 06/21/1999 | 1,2-cis-Dichloroethene | 1.700000 | UG/L | 1.000000 |
| P015 | 06/21/1999 | Tetrachloroethene | 4.400000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P015 | 06/21/1999 | Trichloroethylene (TCE) | 14.000000 | UG/L | 1.200000 |
| P015 | 06/21/1999 | Trichloromethane | 0.770000 | UG/L | 0.500000 |
| P015 | 09/02/1999 | 1,2-cis-Dichloroethene | 4.200000 | UG/L | 1.000000 |
| P015 | 09/02/1999 | 1,2-cis-Dichloroethene | 4.000000 | UG/L | 1.000000 |
| P015 | 09/02/1999 | Tetrachloroethene | 5.900000 | UG/L | 0.300000 |
| P015 | 09/02/1999 | Tetrachloroethene | 6.800000 | UG/L | 0.300000 |
| P015 | 09/02/1999 | Trichloroethylene (TCE) | 19.000000 | UG/L | 1.200000 |
| P015 | 09/02/1999 | Trichloroethylene (TCE) | 20.000000 | UG/L | 1.200000 |
| P015 | 09/02/1999 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| P015 | 09/02/1999 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P015 | 02/01/2000 | 1,2-cis-Dichloroethene | 3.000000 | UG/L | 1.000000 |
| P015 | 02/01/2000 | Tetrachloroethene | 6.000000 | UG/L | 0.300000 |
| P015 | 02/01/2000 | Trichloroethylene (TCE) | 25.000000 | UG/L | 1.200000 |
| P015 | 02/01/2000 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| P015 | 04/14/2000 | 1,2-cis-Dichloroethene | 3.000000 | UG/L | 1.000000 |
| P015 | 04/14/2000 | Tetrachloroethene | 5.000000 | UG/L | 0.300000 |
| P015 | 04/14/2000 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| P015 | 06/23/2000 | 1,2-cis-Dichloroethene | 3.000000 | UG/L | 1.000000 |
| P015 | 06/23/2000 | Tetrachloroethene | 5.000000 | UG/L | 0.300000 |
| P015 | 06/23/2000 | Trichloroethylene (TCE) | 17.000000 | UG/L | 1.200000 |
| P015 | 06/23/2000 | Trichloromethane | 2.000000 | UG/L | 0.500000 |
| P015 | 09/29/2000 | 1,1,1-Trichloroethane | 0.320000 | UG/L | 0.300000 |
| P015 | 09/29/2000 | 1,2-cis-Dichloroethene | 2.200000 | UG/L | 1.000000 |
| P015 | 09/29/2000 | 2-Butanone | 6.800000 | UG/L | 2.000000 |
| P015 | 09/29/2000 | Tetrachloroethene | 5.600000 | UG/L | 0.300000 |
| P015 | 09/29/2000 | Trichloroethylene (TCE) | 16.000000 | UG/L | 1.200000 |
| P015 | 09/29/2000 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| P015 | 03/01/2001 | 1,2-cis-Dichloroethene | 1.900000 | UG/L | 1.000000 |
| P015 | 03/01/2001 | Tetrachloroethene | 6.000000 | UG/L | 0.300000 |
| P015 | 03/01/2001 | Trichloroethylene (TCE) | 14.000000 | UG/L | 1.200000 |
| P015 | 03/01/2001 | Trichloromethane | 0.720000 | UG/L | 0.500000 |
| P015 | 05/03/2001 | 1,2-cis-Dichloroethene | 2.400000 | UG/L | 1.000000 |
| P015 | 05/03/2001 | Tetrachloroethene | 4.300000 | UG/L | 0.300000 |
| P015 | 05/03/2001 | Trichloroethylene (TCE) | 9.600000 | UG/L | 1.200000 |
| P015 | 05/03/2001 | Trichloromethane | 0.750000 | UG/L | 0.500000 |
| P015 | 07/27/2001 | 1,2-cis-Dichloroethene | 2.000000 | UG/L | 1.000000 |
| P015 | 07/27/2001 | Tetrachloroethene | 5.800000 | UG/L | 0.300000 |
| P015 | 07/27/2001 | Trichloroethylene (TCE) | 13.000000 | UG/L | 1.200000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P015 | 07/27/2001 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| P015 | 10/23/2001 | 1,2-cis-Dichloroethene | 2.100000 | UG/L | 1.000000 |
| P015 | 10/23/2001 | Tetrachloroethene | 5.800000 | UG/L | 0.300000 |
| P015 | 10/23/2001 | Trichloroethylene (TCE) | 13.000000 | UG/L | 1.200000 |
| P015 | 10/23/2001 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| P015 | 01/25/2002 | 1,2-cis-Dichloroethene | 1.200000 | UG/L | 1.000000 |
| P015 | 01/25/2002 | Tetrachloroethene | 4.500000 | UG/L | 0.300000 |
| P015 | 01/25/2002 | Trichloroethylene (TCE) | 8.300000 | UG/L | 1.200000 |
| P015 | 01/25/2002 | Trichloromethane | 0.670000 | UG/L | 0.500000 |
| P015 | 04/24/2002 | 1,2-cis-Dichloroethene | 1.500000 | UG/L | 1.000000 |
| P015 | 04/24/2002 | Tetrachloroethene | 5.200000 | UG/L | 0.300000 |
| P015 | 04/24/2002 | Trichloroethylene (TCE) | 9.500000 | UG/L | 1.200000 |
| P015 | 04/24/2002 | Trichloromethane | 0.990000 | UG/L | 0.500000 |
| P015 | 07/25/2002 | Tetrachloroethene | 4.900000 | UG/L | 0.300000 |
| P015 | 07/25/2002 | Trichloroethylene (TCE) | 9.800000 | UG/L | 1.200000 |
| P015 | 11/04/2002 | Tetrachloroethene | 4.200000 | UG/L | 0.300000 |
| P015 | 11/04/2002 | Trichloroethylene (TCE) | 8.000000 | UG/L | 1.200000 |
| P015 | 02/19/2003 | Tetrachloroethene | 3.000000 | UG/L | 0.300000 |
| P015 | 02/19/2003 | Trichloroethylene (TCE) | 6.600000 | UG/L | 1.200000 |
| P015 | 05/19/2003 | 1,1,1-Trichloroethane | 0.700000 | UG/L | 0.300000 |
| P015 | 05/19/2003 | 1,1,1-Trichloroethane | 0.700000 | UG/L | 0.300000 |
| P015 | 05/19/2003 | 1,2-Dichloroethane | 0.550000 | UG/L | 0.300000 |
| P015 | 05/19/2003 | 1,2-Dichloroethane | 0.550000 | UG/L | 0.300000 |
| P015 | 05/19/2003 | Carbon Tetrachloride | 1.300000 | UG/L | 1.200000 |
| P015 | 05/19/2003 | Carbon Tetrachloride | 1.300000 | UG/L | 1.200000 |
| P015 | 05/19/2003 | Tetrachloroethene | 3.300000 | UG/L | 0.300000 |
| P015 | 05/19/2003 | Tetrachloroethene | 3.300000 | UG/L | 0.300000 |
| P015 | 05/19/2003 | Trichloroethylene (TCE) | 5.500000 | UG/L | 1.200000 |
| P015 | 05/19/2003 | Trichloroethylene (TCE) | 5.500000 | UG/L | 1.200000 |
| P015 | 05/19/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P015 | 05/19/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P015 | 05/27/2003 | 2-Butanone | 2.400000 | UG/L | 2.000000 |
| P015 | 05/27/2003 | Tetrachloroethene | 2.600000 | UG/L | 0.300000 |
| P015 | 05/27/2003 | Trichloroethylene (TCE) | 6.100000 | UG/L | 1.200000 |
| P015 | 06/03/2003 | 1,1,1-Trichloroethane | 0.430000 | UG/L | 0.300000 |
| P015 | 06/03/2003 | 2-Butanone | 2.400000 | UG/L | 2.000000 |
| P015 | 06/03/2003 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| P015 | 06/03/2003 | Trichloroethylene (TCE) | 6.000000 | UG/L | 1.200000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P015 | 06/09/2003 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| P015 | 06/09/2003 | Trichloroethylene (TCE) | 4.000000 | UG/L | 1.200000 |
| P015 | 06/09/2003 | Trichloromethane | 0.790000 | UG/L | 0.500000 |
| P015 | 06/30/2003 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| P015 | 06/30/2003 | Trichloroethylene (TCE) | 4.700000 | UG/L | 1.200000 |
| P015 | 06/30/2003 | Trichloromethane | 0.790000 | UG/L | 0.500000 |
| P015 | 07/14/2003 | Tetrachloroethene | 1.900000 | UG/L | 0.300000 |
| P015 | 07/14/2003 | Tetrachloroethene | 1.900000 | UG/L | 0.300000 |
| P015 | 07/14/2003 | Trichloroethylene (TCE) | 3.300000 | UG/L | 1.200000 |
| P015 | 07/14/2003 | Trichloroethylene (TCE) | 3.300000 | UG/L | 1.200000 |
| P015 | 07/14/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |
| P015 | 07/14/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |
| P015 | 08/13/2003 | Tetrachloroethene | 2.600000 | UG/L | 0.300000 |
| P015 | 08/13/2003 | Trichloroethylene (TCE) | 6.000000 | UG/L | 1.200000 |
| P015 | 09/16/2003 | Tetrachloroethene | 2.800000 | UG/L | 0.300000 |
| P015 | 09/16/2003 | Trichloroethylene (TCE) | 6.500000 | UG/L | 1.200000 |
| P015 | 09/16/2003 | Trichloromethane | 0.990000 | UG/L | 0.500000 |
| P015 | 10/15/2003 | 1,2-cis-Dichloroethene | 1.100000 | UG/L | 1.000000 |
| P015 | 10/15/2003 | 1,2-cis-Dichloroethene | 1.100000 | UG/L | 1.000000 |
| P015 | 10/15/2003 | Tetrachloroethene | 3.100000 | UG/L | 0.300000 |
| P015 | 10/15/2003 | Tetrachloroethene | 3.100000 | UG/L | 0.300000 |
| P015 | 10/15/2003 | Trichloroethylene (TCE) | 7.600000 | UG/L | 1.200000 |
| P015 | 10/15/2003 | Trichloroethylene (TCE) | 7.600000 | UG/L | 1.200000 |
| P025 | 06/25/1998 | 1,1,1-Trichloroethane | 2.000000 | UG/L | 0.300000 |
| P025 | 06/25/1998 | 1,1,1-Trichloroethane | 1.800000 | UG/L | 0.300000 |
| P025 | 04/17/2000 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| P025 | 06/26/2000 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| P025 | 06/26/2000 | Bromodichloromethane | 2.000000 | UG/L | 1.000000 |
| P025 | 06/26/2000 | Dibromochloromethane | 1.500000 | UG/L | 0.900000 |
| P025 | 06/26/2000 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| P025 | 02/23/2001 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| P025 | 02/23/2001 | Trichloromethane | 0.540000 | UG/L | 0.500000 |
| P025 | 04/27/2001 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| P025 | 10/23/2001 | 1,1,1-Trichloroethane | 0.960000 | UG/L | 0.300000 |
| P025 | 01/21/2002 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| P025 | 01/21/2002 | Trichloromethane | 0.670000 | UG/L | 0.500000 |
| P025 | 05/07/2002 | 1,1,1-Trichloroethane | 0.710000 | UG/L | 0.300000 |
| P025 | 04/30/2003 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P025 | 04/30/2003 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| P025 | 07/25/2003 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| P025 | 07/25/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P027 | 03/25/1998 | 1,1,1-Trichloroethane | 3.000000 | UG/L | 0.300000 |
| P027 | 03/25/1998 | 1,1,1-Trichloroethane | 3.300000 | UG/L | 0.300000 |
| P027 | 03/25/1998 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| P027 | 03/25/1998 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| P027 | 06/25/1998 | 1,1,1-Trichloroethane | 2.000000 | UG/L | 0.300000 |
| P027 | 06/25/1998 | 1,1,1-Trichloroethane | 1.600000 | UG/L | 0.300000 |
| P027 | 06/25/1998 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| P027 | 06/25/1998 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| P027 | 06/25/1998 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| P027 | 06/25/1998 | Trichloroethylene (TCE) | 1.400000 | UG/L | 1.200000 |
| P027 | 10/08/1998 | 1,1,1-Trichloroethane | 3.600000 | UG/L | 0.300000 |
| P027 | 10/08/1998 | 1,1,1-Trichloroethane | 3.000000 | UG/L | 0.300000 |
| P027 | 10/08/1998 | Tetrachloroethene | 1.200000 | UG/L | 0.300000 |
| P027 | 10/08/1998 | Tetrachloroethene | 1.400000 | UG/L | 0.300000 |
| P027 | 10/08/1998 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| P027 | 01/06/1999 | 1,1,1-Trichloroethane | 4.100000 | UG/L | 0.300000 |
| P027 | 01/06/1999 | Tetrachloroethene | 0.870000 | UG/L | 0.300000 |
| P027 | 01/06/1999 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| P027 | 05/03/1999 | 1,1,1-Trichloroethane | 5.000000 | UG/L | 0.300000 |
| P027 | 05/03/1999 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| P027 | 05/03/1999 | Trichloroethylene (TCE) | 1.600000 | UG/L | 1.200000 |
| P027 | 06/17/1999 | 1,1,1-Trichloroethane | 2.900000 | UG/L | 0.300000 |
| P027 | 06/17/1999 | Tetrachloroethene | 1.200000 | UG/L | 0.300000 |
| P027 | 09/01/1999 | 1,1,1-Trichloroethane | 4.200000 | UG/L | 0.300000 |
| P027 | 09/01/1999 | 1,1,1-Trichloroethane | 3.400000 | UG/L | 0.300000 |
| P027 | 01/19/2000 | 1,1,1-Trichloroethane | 2.100000 | UG/L | 0.300000 |
| P027 | 01/19/2000 | Tetrachloroethene | 0.840000 | UG/L | 0.300000 |
| P027 | 04/13/2000 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| P027 | 04/13/2000 | Tetrachloroethene | 0.960000 | UG/L | 0.300000 |
| P027 | 06/26/2000 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| P027 | 06/26/2000 | Bromodichloromethane | 1.300000 | UG/L | 1.000000 |
| P027 | 06/26/2000 | Dibromochloromethane | 1.000000 | UG/L | 0.900000 |
| P027 | 06/26/2000 | Tetrachloroethene | 0.850000 | UG/L | 0.300000 |
| P027 | 06/26/2000 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P027 | 09/28/2000 | 1,1,1-Trichloroethane | 0.890000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P027 | 09/28/2000 | Tetrachloroethene | 0.400000 | UG/L | 0.300000 |
| P027 | 09/28/2000 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| P027 | 02/06/2001 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| P027 | 02/06/2001 | Tetrachloroethene | 0.980000 | UG/L | 0.300000 |
| P027 | 02/06/2001 | Trichloromethane | 0.880000 | UG/L | 0.500000 |
| P027 | 05/02/2001 | 1,1,1-Trichloroethane | 1.600000 | UG/L | 0.300000 |
| P027 | 05/02/2001 | Tetrachloroethene | 0.860000 | UG/L | 0.300000 |
| P027 | 05/02/2001 | Trichloromethane | 0.730000 | UG/L | 0.500000 |
| P027 | 07/26/2001 | 1,1,1-Trichloroethane | 2.000000 | UG/L | 0.300000 |
| P027 | 07/26/2001 | Tetrachloroethene | 1.100000 | UG/L | 0.300000 |
| P027 | 07/26/2001 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| P027 | 10/23/2001 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| P027 | 10/23/2001 | Tetrachloroethene | 0.800000 | UG/L | 0.300000 |
| P027 | 10/23/2001 | Trichloromethane | 1.600000 | UG/L | 0.500000 |
| P027 | 01/24/2002 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| P027 | 01/24/2002 | Tetrachloroethene | 1.000000 | UG/L | 0.300000 |
| P027 | 04/24/2002 | 1,1,1-Trichloroethane | 1.700000 | UG/L | 0.300000 |
| P027 | 04/24/2002 | Tetrachloroethene | 1.000000 | UG/L | 0.300000 |
| P027 | 07/24/2002 | 1,1,1-Trichloroethane | 1.800000 | UG/L | 0.300000 |
| P027 | 07/24/2002 | Tetrachloroethene | 0.980000 | UG/L | 0.300000 |
| P027 | 11/06/2002 | Tetrachloroethene | 0.770000 | UG/L | 0.300000 |
| P027 | 02/13/2003 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| P027 | 02/13/2003 | Tetrachloroethene | 0.800000 | UG/L | 0.300000 |
| P027 | 06/09/2003 | 1,1,1-Trichloroethane | 0.950000 | UG/L | 0.300000 |
| P027 | 06/09/2003 | 1,1,1-Trichloroethane | 0.950000 | UG/L | 0.300000 |
| P027 | 06/09/2003 | Tetrachloroethene | 0.620000 | UG/L | 0.300000 |
| P027 | 06/09/2003 | Tetrachloroethene | 0.620000 | UG/L | 0.300000 |
| P027 | 06/09/2003 | Trichloromethane | 1.000000 | UG/L | 0.500000 |
| P027 | 06/09/2003 | Trichloromethane | 1.000000 | UG/L | 0.500000 |
| P027 | 07/15/2003 | 1,1,1-Trichloroethane | 0.740000 | UG/L | 0.300000 |
| P027 | 07/15/2003 | 1,1,1-Trichloroethane | 0.740000 | UG/L | 0.300000 |
| P027 | 07/15/2003 | Tetrachloroethene | 0.710000 | UG/L | 0.300000 |
| P027 | 07/15/2003 | Tetrachloroethene | 0.710000 | UG/L | 0.300000 |
| P027 | 07/15/2003 | Trichloromethane | 0.960000 | UG/L | 0.500000 |
| P027 | 07/15/2003 | Trichloromethane | 0.960000 | UG/L | 0.500000 |
| P027 | 08/14/2003 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| P027 | 08/14/2003 | Tetrachloroethene | 0.750000 | UG/L | 0.300000 |
| P027 | 09/17/2003 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P027 | 09/17/2003 | Tetrachloroethene | 0.890000 | UG/L | 0.300000 |
| P027 | 09/17/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| P027 | 10/14/2003 | 1,1,1-Trichloroethane | 0.710000 | UG/L | 0.300000 |
| P027 | 10/14/2003 | 1,1,1-Trichloroethane | 0.710000 | UG/L | 0.300000 |
| P027 | 10/14/2003 | Tetrachloroethene | 0.700000 | UG/L | 0.300000 |
| P027 | 10/14/2003 | Tetrachloroethene | 0.700000 | UG/L | 0.300000 |
| P027 | 10/14/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |
| P027 | 10/14/2003 | Trichloromethane | 0.740000 | UG/L | 0.500000 |
| P031 | 03/25/1998 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| P031 | 03/25/1998 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| P031 | 03/25/1998 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| P031 | 03/25/1998 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| P031 | 03/25/1998 | Trichloroethylene (TCE) | 2.300000 | UG/L | 1.200000 |
| P031 | 03/25/1998 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| P031 | 06/25/1998 | 1,1,1-Trichloroethane | 1.700000 | UG/L | 0.300000 |
| P031 | 06/25/1998 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| P031 | 06/25/1998 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| P031 | 06/25/1998 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| P031 | 06/25/1998 | Trichloroethylene (TCE) | 2.100000 | UG/L | 1.200000 |
| P031 | 06/25/1998 | Trichloroethylene (TCE) | 2.100000 | UG/L | 1.200000 |
| P031 | 10/08/1998 | 1,1,1-Trichloroethane | 2.700000 | UG/L | 0.300000 |
| P031 | 10/08/1998 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| P031 | 10/08/1998 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| P031 | 10/08/1998 | Tetrachloroethene | 1.500000 | UG/L | 0.300000 |
| P031 | 10/08/1998 | Trichloroethylene (TCE) | 3.800000 | UG/L | 1.200000 |
| P031 | 10/08/1998 | Trichloroethylene (TCE) | 2.000000 | UG/L | 1.200000 |
| P031 | 01/06/1999 | 1,1,1-Trichloroethane | 2.900000 | UG/L | 0.300000 |
| P031 | 01/06/1999 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| P031 | 01/06/1999 | Trichloroethylene (TCE) | 3.100000 | UG/L | 1.200000 |
| P031 | 05/03/1999 | 1,1,1-Trichloroethane | 2.600000 | UG/L | 0.300000 |
| P031 | 05/03/1999 | Tetrachloroethene | 2.500000 | UG/L | 0.300000 |
| P031 | 05/03/1999 | Trichloroethylene (TCE) | 3.200000 | UG/L | 1.200000 |
| P031 | 06/17/1999 | 1,1,1-Trichloroethane | 2.800000 | UG/L | 0.300000 |
| P031 | 06/17/1999 | Tetrachloroethene | 2.000000 | UG/L | 0.300000 |
| P031 | 06/17/1999 | Trichloroethylene (TCE) | 2.600000 | UG/L | 1.200000 |
| P031 | 09/01/1999 | 1,1,1-Trichloroethane | 3.600000 | UG/L | 0.300000 |
| P031 | 09/01/1999 | 1,1,1-Trichloroethane | 2.700000 | UG/L | 0.300000 |
| P031 | 09/01/1999 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P031 | 09/01/1999 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| P031 | 09/01/1999 | Trichloroethylene (TCE) | 3.100000 | UG/L | 1.200000 |
| P031 | 09/01/1999 | Trichloroethylene (TCE) | 2.800000 | UG/L | 1.200000 |
| P031 | 01/19/2000 | 1,1,1-Trichloroethane | 2.400000 | UG/L | 0.300000 |
| P031 | 01/19/2000 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| P031 | 01/19/2000 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| P031 | 04/14/2000 | 1,1,1-Trichloroethane | 0.980000 | UG/L | 0.300000 |
| P031 | 04/14/2000 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| P031 | 04/14/2000 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| P031 | 06/22/2000 | 1,1,1-Trichloroethane | 6.700000 | UG/L | 0.300000 |
| P031 | 06/22/2000 | Dibromochloromethane | 1.300000 | UG/L | 0.900000 |
| P031 | 06/22/2000 | Tetrachloroethene | 1.500000 | UG/L | 0.300000 |
| P031 | 06/22/2000 | Trichloroethylene (TCE) | 3.000000 | UG/L | 1.200000 |
| P031 | 06/22/2000 | Trichloromethane | 3.500000 | UG/L | 0.500000 |
| P031 | 09/28/2000 | 1,1,1-Trichloroethane | 0.680000 | UG/L | 0.300000 |
| P031 | 09/28/2000 | Tetrachloroethene | 0.930000 | UG/L | 0.300000 |
| P031 | 09/28/2000 | Trichloroethylene (TCE) | 1.800000 | UG/L | 1.200000 |
| P031 | 09/28/2000 | Trichloromethane | 0.900000 | UG/L | 0.500000 |
| P031 | 02/05/2001 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| P031 | 02/05/2001 | Tetrachloroethene | 1.900000 | UG/L | 0.300000 |
| P031 | 02/05/2001 | Trichloroethylene (TCE) | 1.600000 | UG/L | 1.200000 |
| P031 | 05/01/2001 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| P031 | 05/01/2001 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| P031 | 05/01/2001 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| P031 | 07/26/2001 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| P031 | 07/26/2001 | Tetrachloroethene | 1.900000 | UG/L | 0.300000 |
| P031 | 07/26/2001 | Trichloroethylene (TCE) | 2.300000 | UG/L | 1.200000 |
| P031 | 07/26/2001 | Trichloromethane | 1.700000 | UG/L | 0.500000 |
| P031 | 10/23/2001 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| P031 | 10/23/2001 | Tetrachloroethene | 2.100000 | UG/L | 0.300000 |
| P031 | 10/23/2001 | Trichloroethylene (TCE) | 1.800000 | UG/L | 1.200000 |
| P031 | 10/23/2001 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| P031 | 01/24/2002 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| P031 | 01/24/2002 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| P031 | 01/24/2002 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| P031 | 04/24/2002 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| P031 | 04/24/2002 | Tetrachloroethene | 1.700000 | UG/L | 0.300000 |
| P031 | 04/24/2002 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P031 | 07/25/2002 | 1,1,1-Trichloroethane | 1.100000 | UG/L | 0.300000 |
| P031 | 07/25/2002 | Tetrachloroethene | 2.300000 | UG/L | 0.300000 |
| P031 | 07/25/2002 | Trichloroethylene (TCE) | 2.200000 | UG/L | 1.200000 |
| P031 | 11/13/2002 | 1,1,1-Trichloroethane | 1.300000 | UG/L | 0.300000 |
| P031 | 11/13/2002 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| P031 | 02/13/2003 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| P031 | 06/09/2003 | 1,1,1-Trichloroethane | 0.910000 | UG/L | 0.300000 |
| P031 | 06/09/2003 | 1,1,1-Trichloroethane | 0.910000 | UG/L | 0.300000 |
| P031 | 06/09/2003 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| P031 | 06/09/2003 | Tetrachloroethene | 1.800000 | UG/L | 0.300000 |
| P031 | 06/09/2003 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| P031 | 06/09/2003 | Trichloroethylene (TCE) | 1.300000 | UG/L | 1.200000 |
| P031 | 06/09/2003 | Trichloromethane | 0.990000 | UG/L | 0.500000 |
| P031 | 06/09/2003 | Trichloromethane | 0.990000 | UG/L | 0.500000 |
| P031 | 07/15/2003 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| P031 | 07/15/2003 | 1,1,1-Trichloroethane | 1.000000 | UG/L | 0.300000 |
| P031 | 07/15/2003 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| P031 | 07/15/2003 | Tetrachloroethene | 1.600000 | UG/L | 0.300000 |
| P031 | 07/15/2003 | Trichloromethane | 0.980000 | UG/L | 0.500000 |
| P031 | 07/15/2003 | Trichloromethane | 0.980000 | UG/L | 0.500000 |
| P031 | 08/14/2003 | 1,1,1-Trichloroethane | 1.400000 | UG/L | 0.300000 |
| P031 | 08/14/2003 | Tetrachloroethene | 1.900000 | UG/L | 0.300000 |
| P031 | 08/14/2003 | Trichloroethylene (TCE) | 1.800000 | UG/L | 1.200000 |
| P031 | 09/17/2003 | 1,1,1-Trichloroethane | 1.200000 | UG/L | 0.300000 |
| P031 | 09/17/2003 | Tetrachloroethene | 2.000000 | UG/L | 0.300000 |
| P031 | 09/17/2003 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |
| P031 | 09/17/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P031 | 10/14/2003 | 1,1,1-Trichloroethane | 0.950000 | UG/L | 0.300000 |
| P031 | 10/14/2003 | 1,1,1-Trichloroethane | 0.950000 | UG/L | 0.300000 |
| P031 | 10/14/2003 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| P031 | 10/14/2003 | Tetrachloroethene | 2.200000 | UG/L | 0.300000 |
| P031 | 10/14/2003 | Trichloroethylene (TCE) | 1.500000 | UG/L | 1.200000 |
| P031 | 10/14/2003 | Trichloroethylene (TCE) | 1.500000 | UG/L | 1.200000 |
| P031 | 10/14/2003 | Trichloromethane | 0.790000 | UG/L | 0.500000 |
| P031 | 10/14/2003 | Trichloromethane | 0.790000 | UG/L | 0.500000 |
| P044 | 03/25/1998 | 1,1,1-Trichloroethane | 2.900000 | UG/L | 0.300000 |
| P044 | 03/25/1998 | 1,1,1-Trichloroethane | 2.900000 | UG/L | 0.300000 |
| P044 | 03/25/1998 | 1,1,1-Trichloroethane | 3.000000 | UG/L | 0.300000 |

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# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P044 | 03/25/1998 | 1,1,1-Trichloroethane | 2.800000 | UG/L | 0.300000 |
| P044 | 06/18/1998 | 1,1,1-Trichloroethane | 3.000000 | UG/L | 0.300000 |
| P044 | 06/18/1998 | 1,1,1-Trichloroethane | 3.100000 | UG/L | 0.300000 |
| P044 | 10/08/1998 | 1,1,1-Trichloroethane | 2.900000 | UG/L | 0.300000 |
| P044 | 10/08/1998 | 1,1,1-Trichloroethane | 2.500000 | UG/L | 0.300000 |
| P044 | 01/06/1999 | 1,1,1-Trichloroethane | 3.600000 | UG/L | 0.300000 |
| P044 | 05/03/1999 | 1,1,1-Trichloroethane | 4.800000 | UG/L | 0.300000 |
| P044 | 06/17/1999 | 1,1,1-Trichloroethane | 2.800000 | UG/L | 0.300000 |
| P044 | 09/01/1999 | 1,1,1-Trichloroethane | 3.200000 | UG/L | 0.300000 |
| P044 | 09/01/1999 | 1,1,1-Trichloroethane | 2.400000 | UG/L | 0.300000 |
| P044 | 01/19/2000 | 1,1,1-Trichloroethane | 3.200000 | UG/L | 0.300000 |
| P044 | 04/13/2000 | 1,1,1-Trichloroethane | 2.900000 | UG/L | 0.300000 |
| P044 | 06/26/2000 | 1,1,1-Trichloroethane | 2.400000 | UG/L | 0.300000 |
| P044 | 06/26/2000 | Trichloromethane | 1.800000 | UG/L | 0.500000 |
| P044 | 09/26/2000 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| P044 | 02/05/2001 | 1,1,1-Trichloroethane | 2.500000 | UG/L | 0.300000 |
| P044 | 02/05/2001 | Trichloromethane | 1.000000 | UG/L | 0.500000 |
| P044 | 05/01/2001 | 1,1,1-Trichloroethane | 5.900000 | UG/L | 0.300000 |
| P044 | 05/01/2001 | Trichloromethane | 1.200000 | UG/L | 0.500000 |
| P044 | 07/23/2001 | 1,1,1-Trichloroethane | 3.600000 | UG/L | 0.300000 |
| P044 | 10/17/2001 | 1,1,1-Trichloroethane | 1.900000 | UG/L | 0.300000 |
| P044 | 10/17/2001 | Trichloromethane | 1.000000 | UG/L | 0.500000 |
| P044 | 01/24/2002 | 1,1,1-Trichloroethane | 2.700000 | UG/L | 0.300000 |
| P044 | 04/24/2002 | 1,1,1-Trichloroethane | 3.300000 | UG/L | 0.300000 |
| P044 | 07/24/2002 | 1,1,1-Trichloroethane | 3.600000 | UG/L | 0.300000 |
| P044 | 02/13/2003 | 1,1,1-Trichloroethane | 2.600000 | UG/L | 0.300000 |
| P044 | 02/13/2003 | Trichloromethane | 0.930000 | UG/L | 0.500000 |
| P044 | 04/30/2003 | 1,1,1-Trichloroethane | 3.100000 | UG/L | 0.300000 |
| P044 | 04/30/2003 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P044 | 07/16/2003 | 1,1,1-Trichloroethane | 2.000000 | UG/L | 0.300000 |
| P044 | 07/16/2003 | Trichloromethane | 0.800000 | UG/L | 0.500000 |
| P046 | 03/26/1998 | Tetrachloroethene | 0.670000 | UG/L | 0.300000 |
| P046 | 03/26/1998 | Tetrachloroethene | 0.700000 | UG/L | 0.300000 |
| P046 | 03/26/1998 | Trichloroethylene (TCE) | 2.500000 | UG/L | 1.200000 |
| P046 | 03/26/1998 | Trichloroethylene (TCE) | 1.600000 | UG/L | 1.200000 |
| P046 | 06/22/1998 | Tetrachloroethene | 0.740000 | UG/L | 0.300000 |
| P046 | 06/22/1998 | Tetrachloroethene | 0.300000 | UG/L | 0.300000 |
| P046 | 06/22/1998 | Trichloroethylene (TCE) | 1.700000 | UG/L | 1.200000 |

E42

# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P046 | 06/22/1998 | Trichloroethylene (TCE) | 1.900000 | UG/L | 1.200000 |
| P046 | 10/08/1998 | Tetrachloroethene | 0.370000 | UG/L | 0.300000 |
| P046 | 10/08/1998 | Tetrachloroethene | 0.490000 | UG/L | 0.300000 |
| P046 | 10/08/1998 | Trichloroethylene (TCE) | 1.800000 | UG/L | 1.200000 |
| P046 | 10/08/1998 | Trichloroethylene (TCE) | 1.100000 | UG/L | 1.200000 |
| P046 | 01/06/1999 | Tetrachloroethene | 0.640000 | UG/L | 0.300000 |
| P046 | 01/06/1999 | Trichloroethylene (TCE) | 1.900000 | UG/L | 1.200000 |
| P046 | 01/06/1999 | Trichloromethane | 0.900000 | UG/L | 0.500000 |
| P046 | 05/03/1999 | Tetrachloroethene | 0.740000 | UG/L | 0.300000 |
| P046 | 05/03/1999 | Tetrachloroethene | 0.590000 | UG/L | 0.300000 |
| P046 | 05/03/1999 | Trichloroethylene (TCE) | 2.300000 | UG/L | 1.200000 |
| P046 | 05/03/1999 | Trichloroethylene (TCE) | 2.400000 | UG/L | 1.200000 |
| P046 | 05/03/1999 | Trichloromethane | 0.580000 | UG/L | 0.500000 |
| P046 | 05/03/1999 | Trichloromethane | 0.620000 | UG/L | 0.500000 |
| P046 | 06/18/1999 | Tetrachloroethene | 1.100000 | UG/L | 0.300000 |
| P046 | 06/18/1999 | Trichloroethylene (TCE) | 3.200000 | UG/L | 1.200000 |
| P046 | 06/18/1999 | Trichloromethane | 0.750000 | UG/L | 0.500000 |
| P046 | 09/07/1999 | Tetrachloroethene | 0.850000 | UG/L | 0.300000 |
| P046 | 09/07/1999 | Tetrachloroethene | 0.730000 | UG/L | 0.300000 |
| P046 | 09/07/1999 | Tetrachloroethene | 0.850000 | UG/L | 0.300000 |
| P046 | 09/07/1999 | Tetrachloroethene | 0.740000 | UG/L | 0.300000 |
| P046 | 09/07/1999 | Trichloroethylene (TCE) | 3.700000 | UG/L | 1.200000 |
| P046 | 09/07/1999 | Trichloroethylene (TCE) | 2.800000 | UG/L | 1.200000 |
| P046 | 09/07/1999 | Trichloroethylene (TCE) | 3.700000 | UG/L | 1.200000 |
| P046 | 09/07/1999 | Trichloroethylene (TCE) | 2.800000 | UG/L | 1.200000 |
| P046 | 09/07/1999 | Trichloromethane | 0.660000 | UG/L | 0.500000 |
| P046 | 09/07/1999 | Trichloromethane | 0.760000 | UG/L | 0.500000 |
| P046 | 09/07/1999 | Trichloromethane | 0.660000 | UG/L | 0.500000 |
| P046 | 09/07/1999 | Trichloromethane | 0.750000 | UG/L | 0.500000 |
| P046 | 01/25/2000 | Tetrachloroethene | 0.720000 | UG/L | 0.300000 |
| P046 | 01/25/2000 | Trichloroethylene (TCE) | 2.500000 | UG/L | 1.200000 |
| P046 | 01/25/2000 | Trichloromethane | 0.850000 | UG/L | 0.500000 |
| P046 | 06/30/2000 | Tetrachloroethene | 0.460000 | UG/L | 0.300000 |
| P046 | 06/30/2000 | Trichloroethylene (TCE) | 4.400000 | UG/L | 1.200000 |
| P046 | 06/30/2000 | Trichloromethane | 0.840000 | UG/L | 0.500000 |
| P046 | 02/20/2001 | 1,1,1-Trichloroethane | 0.920000 | UG/L | 0.300000 |
| P046 | 02/20/2001 | Tetrachloroethene | 0.640000 | UG/L | 0.300000 |
| P046 | 02/20/2001 | Trichloroethylene (TCE) | 3.600000 | UG/L | 1.200000 |

E41

# PRS 414 VOC Groundwater Detections

| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P046 | 02/20/2001 | Trichloromethane | 0.570000 | UG/L | 0.500000 |
| P046 | 05/01/2001 | 1,1,1-Trichloroethane | 0.880000 | UG/L | 0.300000 |
| P046 | 05/01/2001 | Tetrachloroethene | 0.620000 | UG/L | 0.300000 |
| P046 | 05/01/2001 | Trichloroethylene (TCE) | 4.000000 | UG/L | 1.200000 |
| P046 | 05/01/2001 | Trichloromethane | 1.100000 | UG/L | 0.500000 |
| P046 | 07/23/2001 | 1,1,1-Trichloroethane | 0.800000 | UG/L | 0.300000 |
| P046 | 07/23/2001 | Tetrachloroethene | 0.810000 | UG/L | 0.300000 |
| P046 | 07/23/2001 | Trichloroethylene (TCE) | 5.300000 | UG/L | 1.200000 |
| P046 | 10/23/2001 | 1,1,1-Trichloroethane | 0.700000 | UG/L | 0.300000 |
| P046 | 10/23/2001 | Tetrachloroethene | 0.750000 | UG/L | 0.300000 |
| P046 | 10/23/2001 | Trichloroethylene (TCE) | 5.100000 | UG/L | 1.200000 |
| P046 | 10/23/2001 | Trichloromethane | 1.300000 | UG/L | 0.500000 |
| P046 | 01/24/2002 | 1,1,1-Trichloroethane | 0.860000 | UG/L | 0.300000 |
| P046 | 01/24/2002 | Tetrachloroethene | 0.600000 | UG/L | 0.300000 |
| P046 | 01/24/2002 | Trichloroethylene (TCE) | 4.700000 | UG/L | 1.200000 |
| P046 | 04/24/2002 | 1,1,1-Trichloroethane | 0.850000 | UG/L | 0.300000 |
| P046 | 04/24/2002 | Tetrachloroethene | 0.780000 | UG/L | 0.300000 |
| P046 | 04/24/2002 | Trichloroethylene (TCE) | 6.100000 | UG/L | 1.200000 |
| P046 | 07/23/2002 | 1,1,1-Trichloroethane | 0.940000 | UG/L | 0.300000 |
| P046 | 07/23/2002 | Tetrachloroethene | 0.900000 | UG/L | 0.300000 |
| P046 | 07/23/2002 | Trichloroethylene (TCE) | 7.000000 | UG/L | 1.200000 |
| P046 | 11/06/2002 | Tetrachloroethene | 0.770000 | UG/L | 0.300000 |
| P046 | 11/06/2002 | Trichloroethylene (TCE) | 6.800000 | UG/L | 1.200000 |
| P046 | 02/13/2003 | 1,1,1-Trichloroethane | 0.440000 | UG/L | 0.300000 |
| P046 | 02/13/2003 | Tetrachloroethene | 0.530000 | UG/L | 0.300000 |
| P046 | 02/13/2003 | Trichloroethylene (TCE) | 7.400000 | UG/L | 1.200000 |
| P046 | 04/30/2003 | 1,1,1-Trichloroethane | 0.650000 | UG/L | 0.300000 |
| P046 | 04/30/2003 | Tetrachloroethene | 1.100000 | UG/L | 0.300000 |
| P046 | 04/30/2003 | Trichloroethylene (TCE) | 6.000000 | UG/L | 1.200000 |
| P046 | 04/30/2003 | Trichloromethane | 0.970000 | UG/L | 0.500000 |
| P046 | 07/17/2003 | 1,1,1-Trichloroethane | 1.500000 | UG/L | 0.300000 |
| P046 | 07/17/2003 | 1,2-Dichloroethane | 0.420000 | UG/L | 0.300000 |
| P046 | 07/17/2003 | Carbon Tetrachloride | 1.800000 | UG/L | 1.200000 |
| P046 | 07/17/2003 | Tetrachloroethene | 0.740000 | UG/L | 0.300000 |
| P046 | 07/17/2003 | Trichloroethylene (TCE) | 4.900000 | UG/L | 1.200000 |
| P046 | 07/17/2003 | Trichloromethane | 1.500000 | UG/L | 0.500000 |
| P046 | 10/17/2003 | 1,1,1-Trichloroethane | 0.440000 | UG/L | 0.300000 |
| P046 | 10/17/2003 | 1,1,1-Trichloroethane | 0.440000 | UG/L | 0.300000 |

E42

# PRS 414 VOC Groundwater Detections

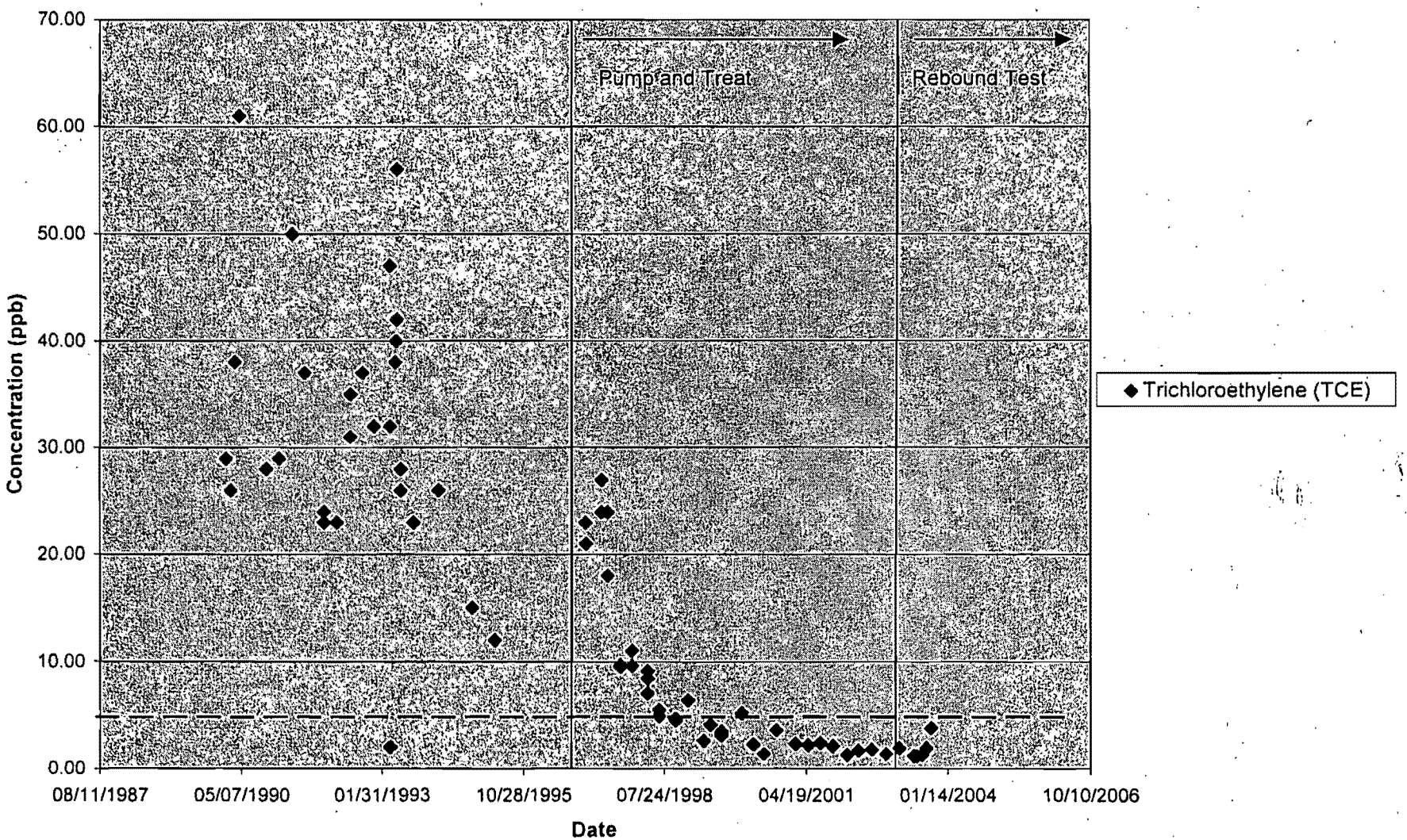
| Station | Date Collected | Parameter Name | Results | Units of Measure | Detection Limit |
|---|---|---|---|---|---|
| P046 | 10/17/2003 | Tetrachloroethene | 0.600000 | UG/L | 0.300000 |
| P046 | 10/17/2003 | Tetrachloroethene | 0.600000 | UG/L | 0.300000 |
| P046 | 10/17/2003 | Trichloroethylene (TCE) | 2.900000 | UG/L | 1.200000 |
| P046 | 10/17/2003 | Trichloroethylene (TCE) | 2.900000 | UG/L | 1.200000 |

E43

# APPENDIX B

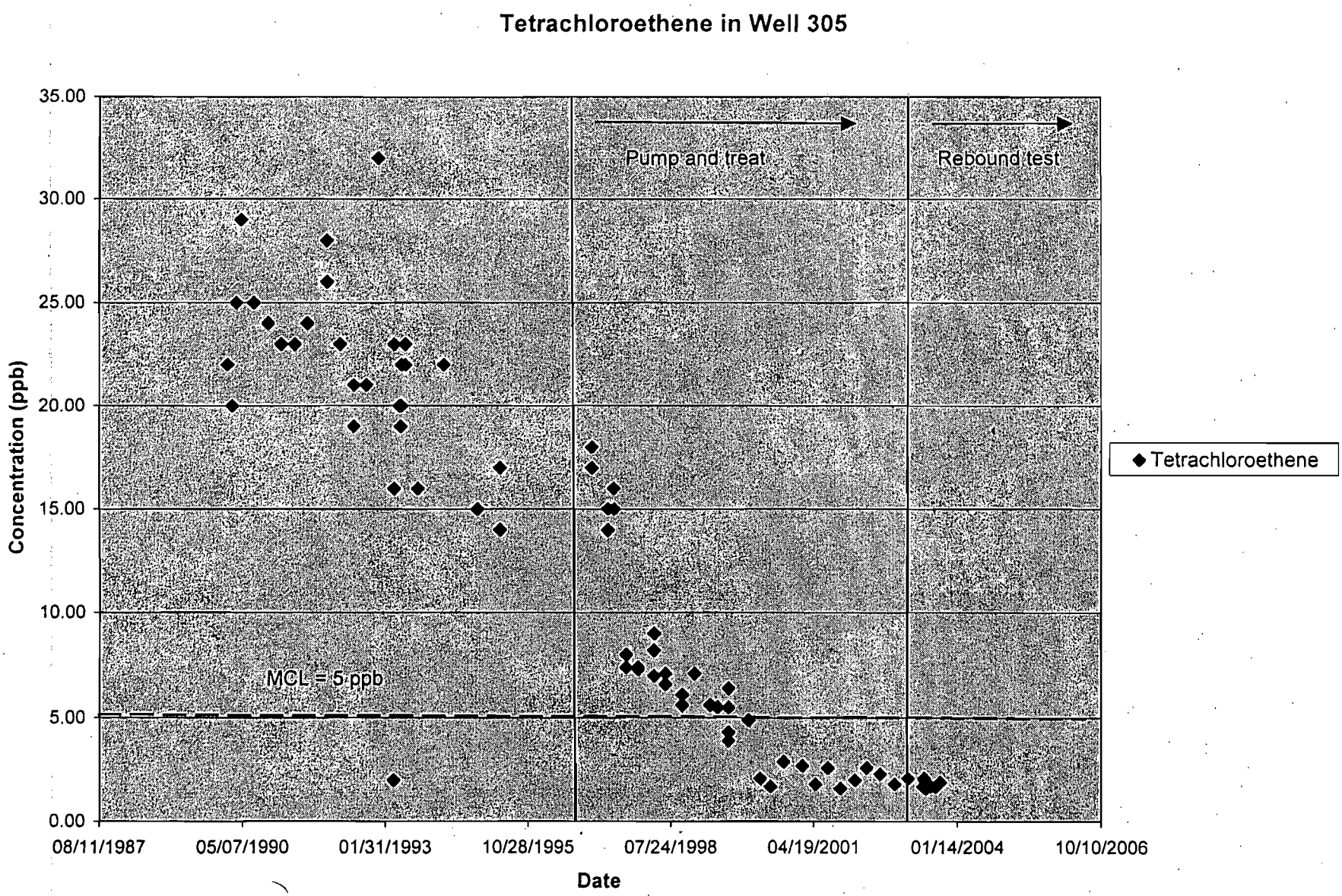
## TIME SERIES CHARTS

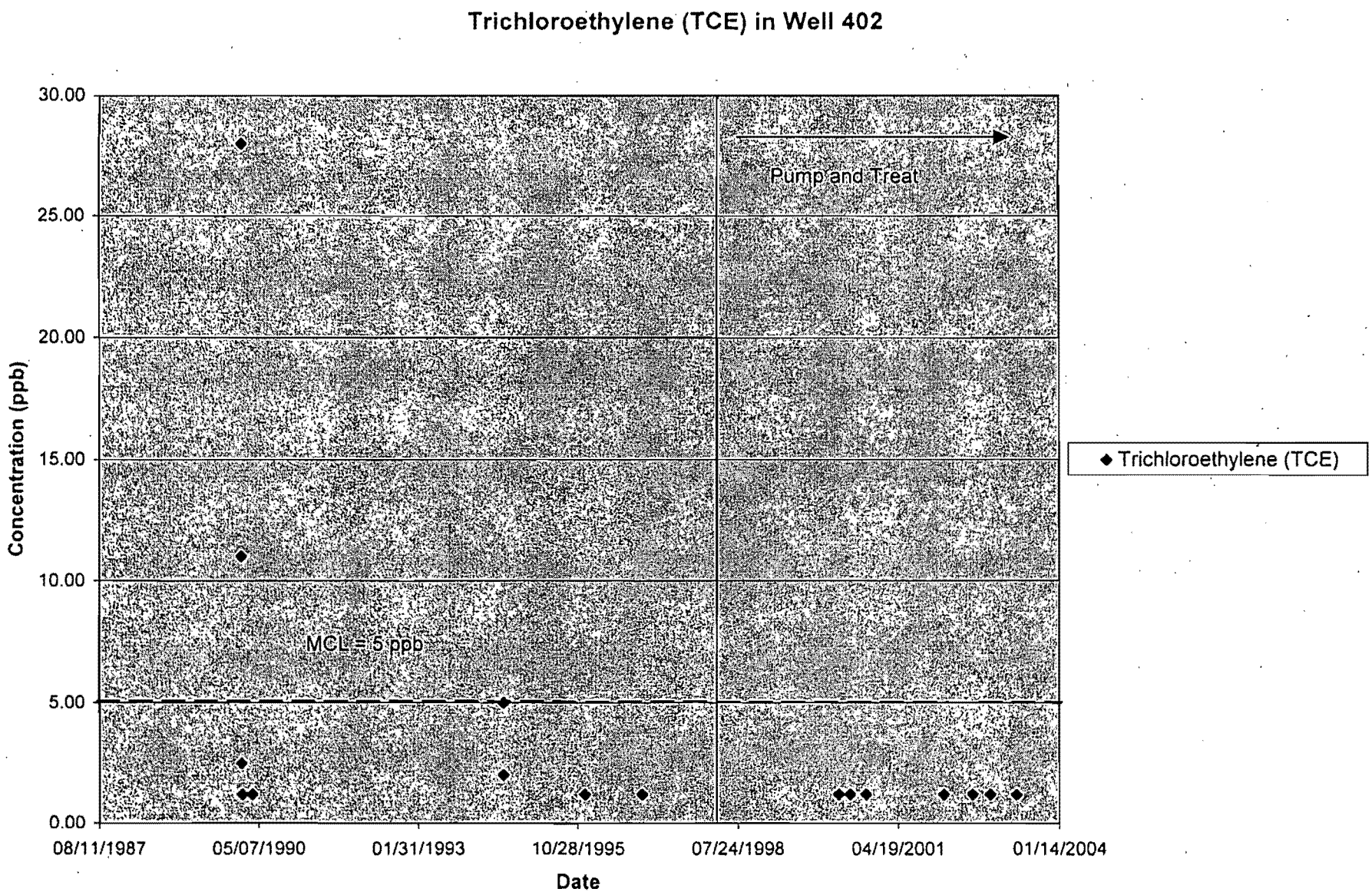
## Trichloroethylene (TCE) in Well 0305



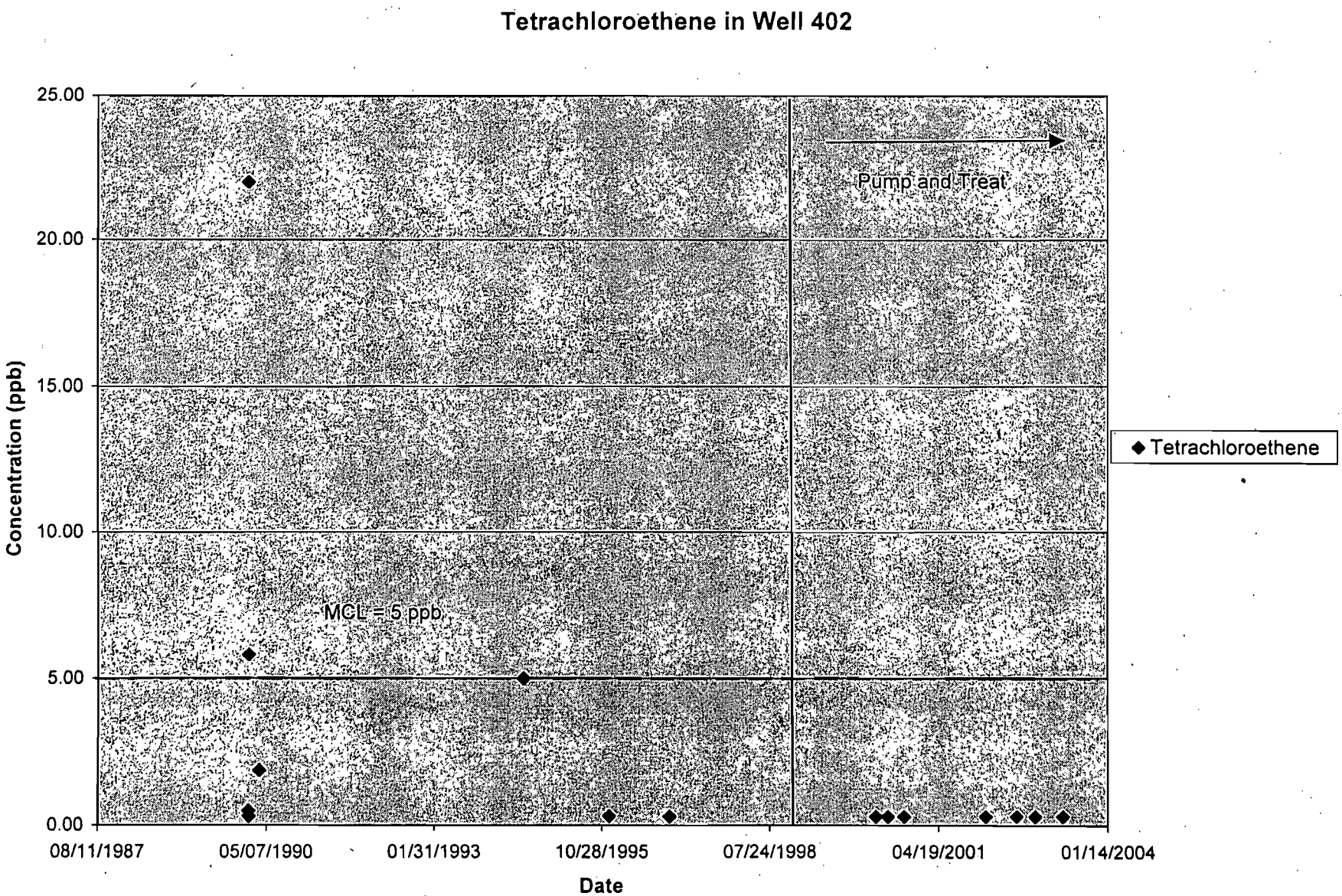

E45

Exh 6

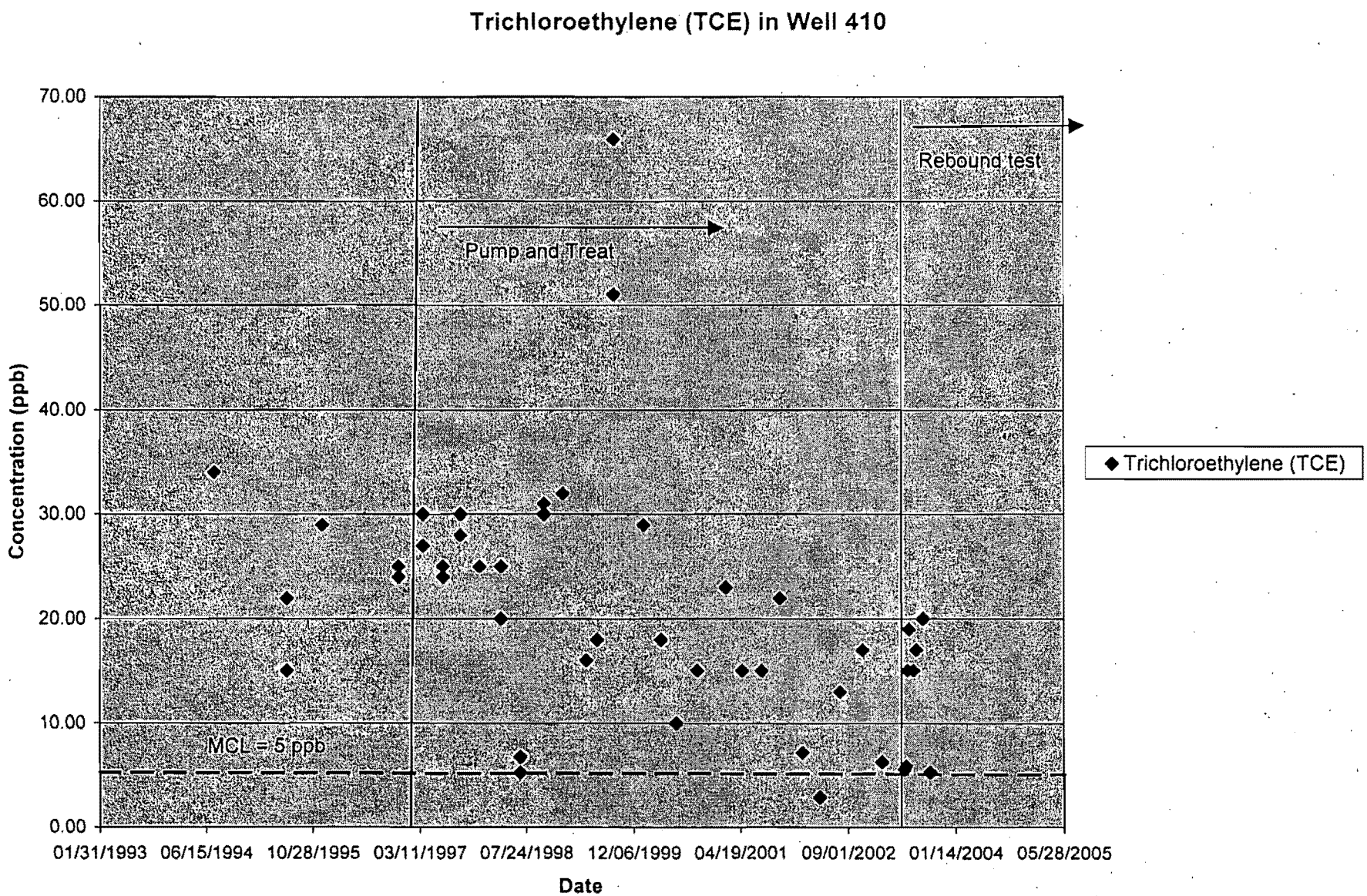

Tetrachloroethene in Well 305
Concentration (ppb)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Pump and treat
Rebound test
MCL = 5 ppb
Tetrachloroethene
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
10/10/2006
Date


Trichloroethylene (TCE) in Well 402
Concentration (ppb)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
Date
Pump and Treat
MCL = 5 ppb
Trichloroethylene (TCE)

E47

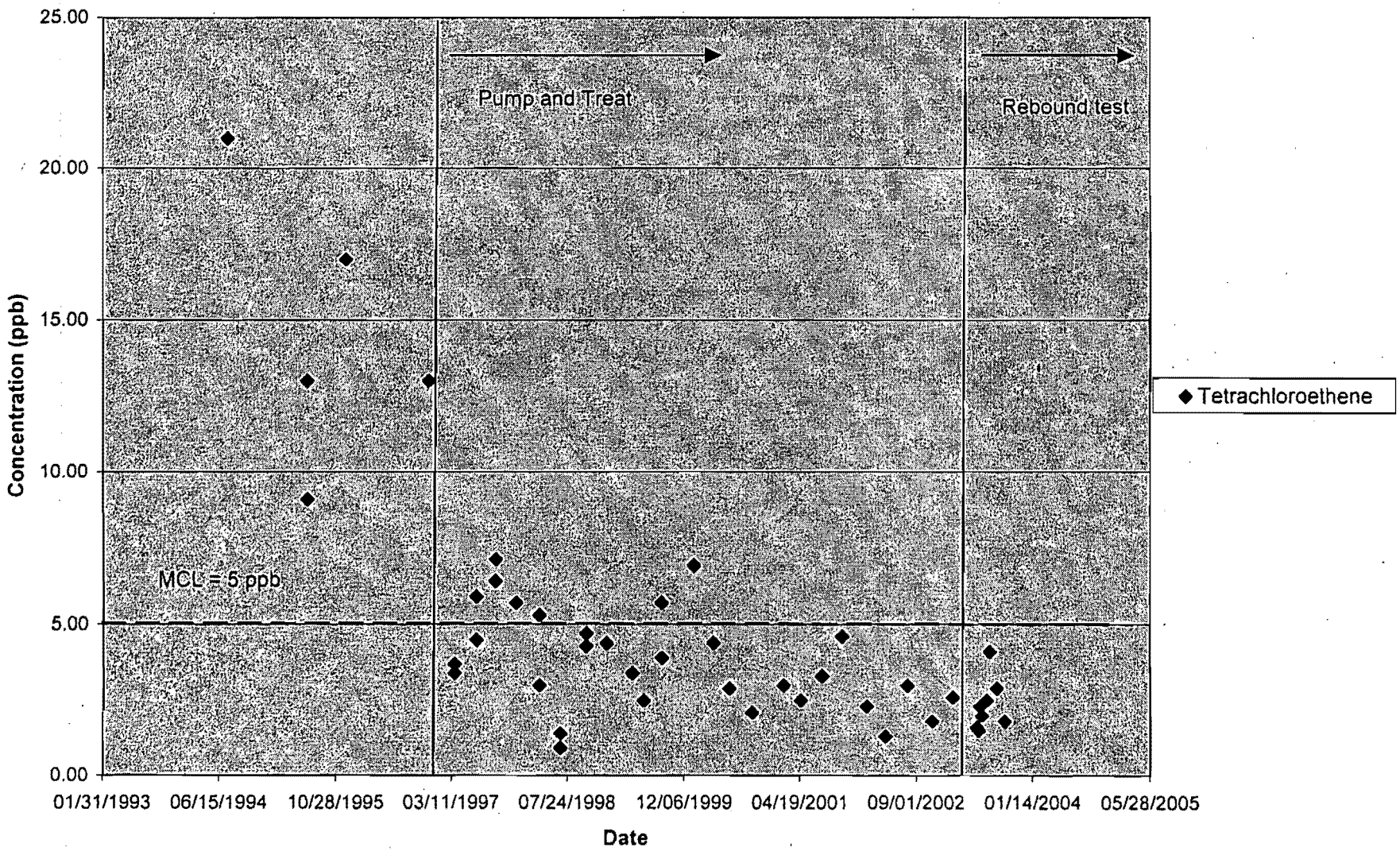

Tetrachloroethene in Well 402
Concentration (ppb)
25.00
20.00
15.00
10.00
5.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
Date
Pump and Treat
MCL = 5 ppb
Tetrachloroethene

E-48

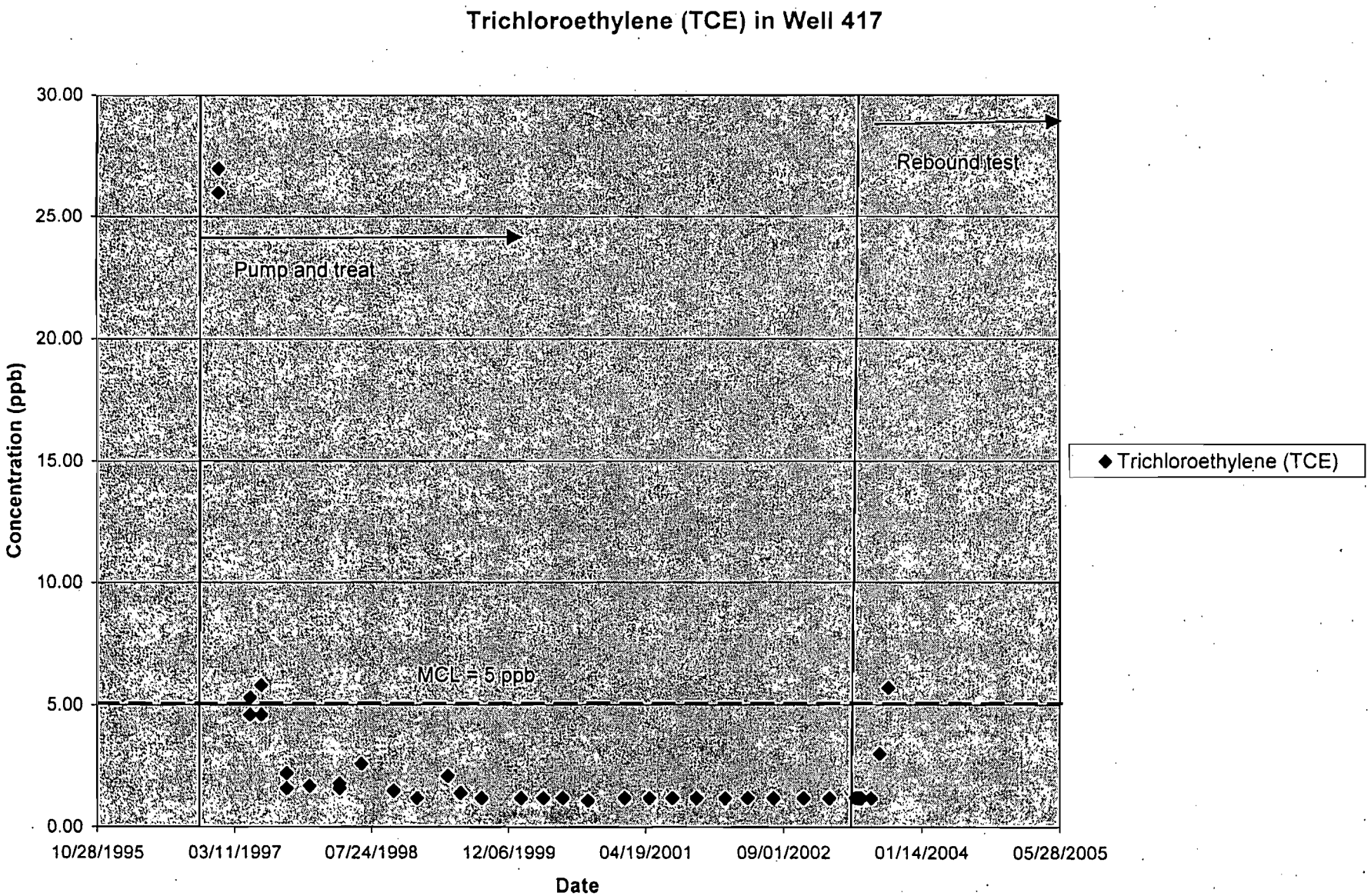

Trichloroethylene (TCE) in Well 410
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Concentration (ppb)
Rebound test
Pump and Treat
MCL = 5 ppb
Trichloroethylene (TCE)
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

E49

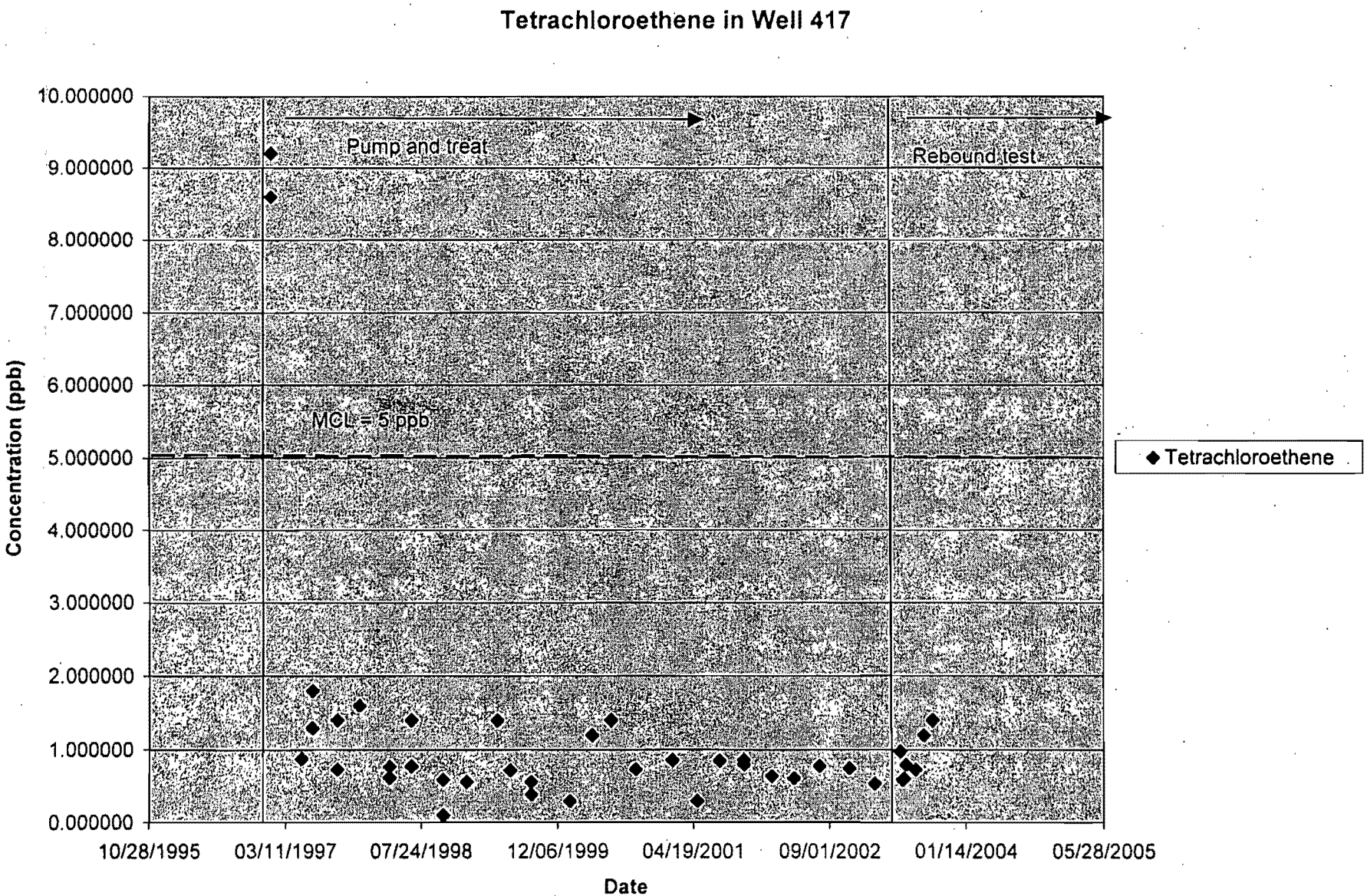
## Tetrachloroethene in Well 410



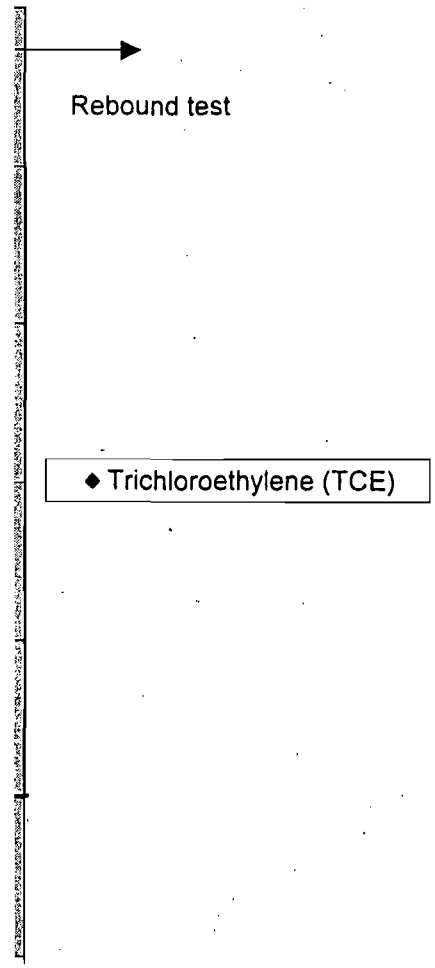

E50


Trichloroethylene (TCE) in Well 417
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Concentration (ppb)
Pump and treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

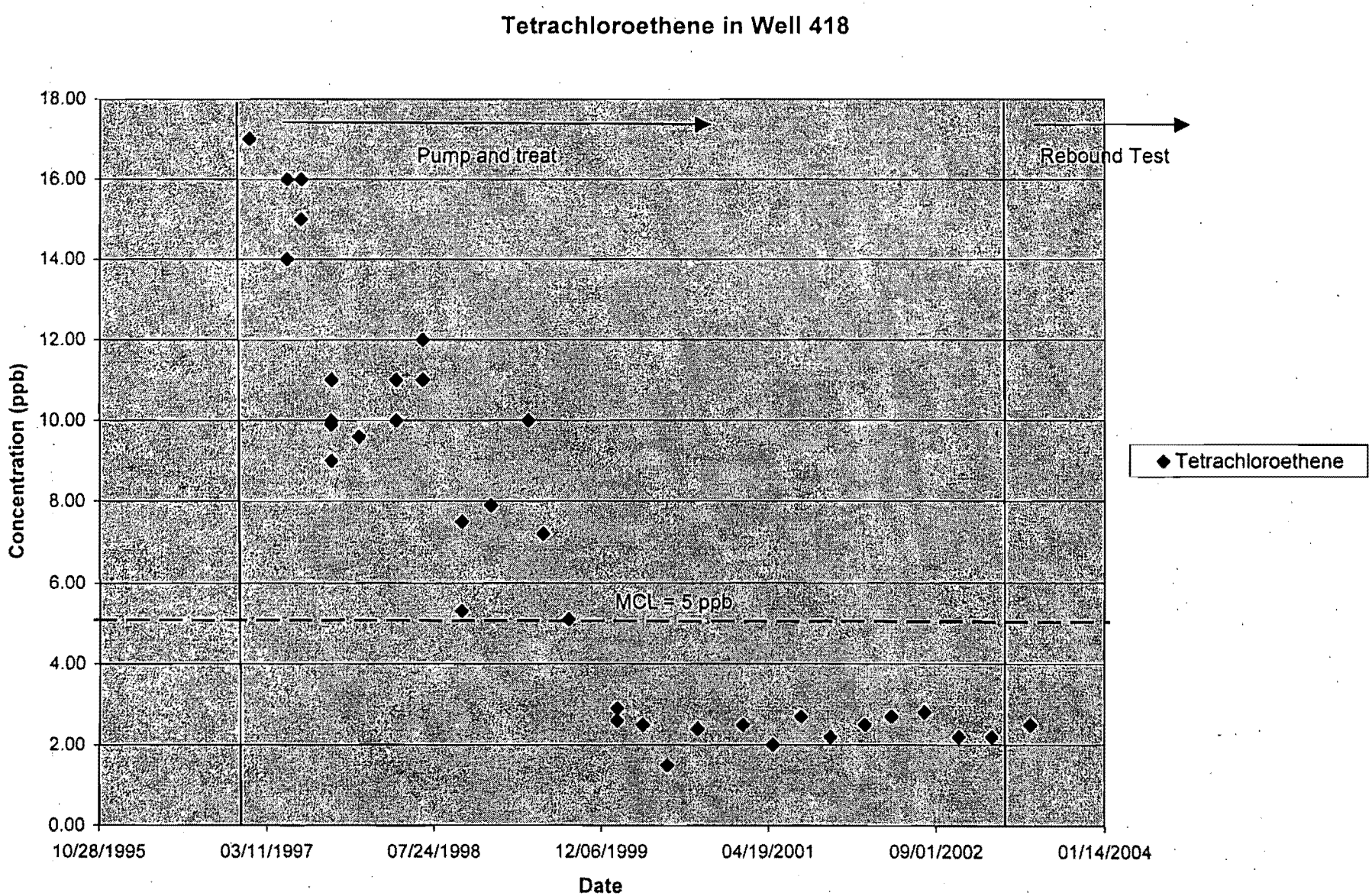
E51


Tetrachloroethene in Well 417
Pump and treat
Rebound test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
10.000000
9.000000
8.000000
7.000000
6.000000
5.000000
4.000000
3.000000
2.000000
1.000000
0.000000
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

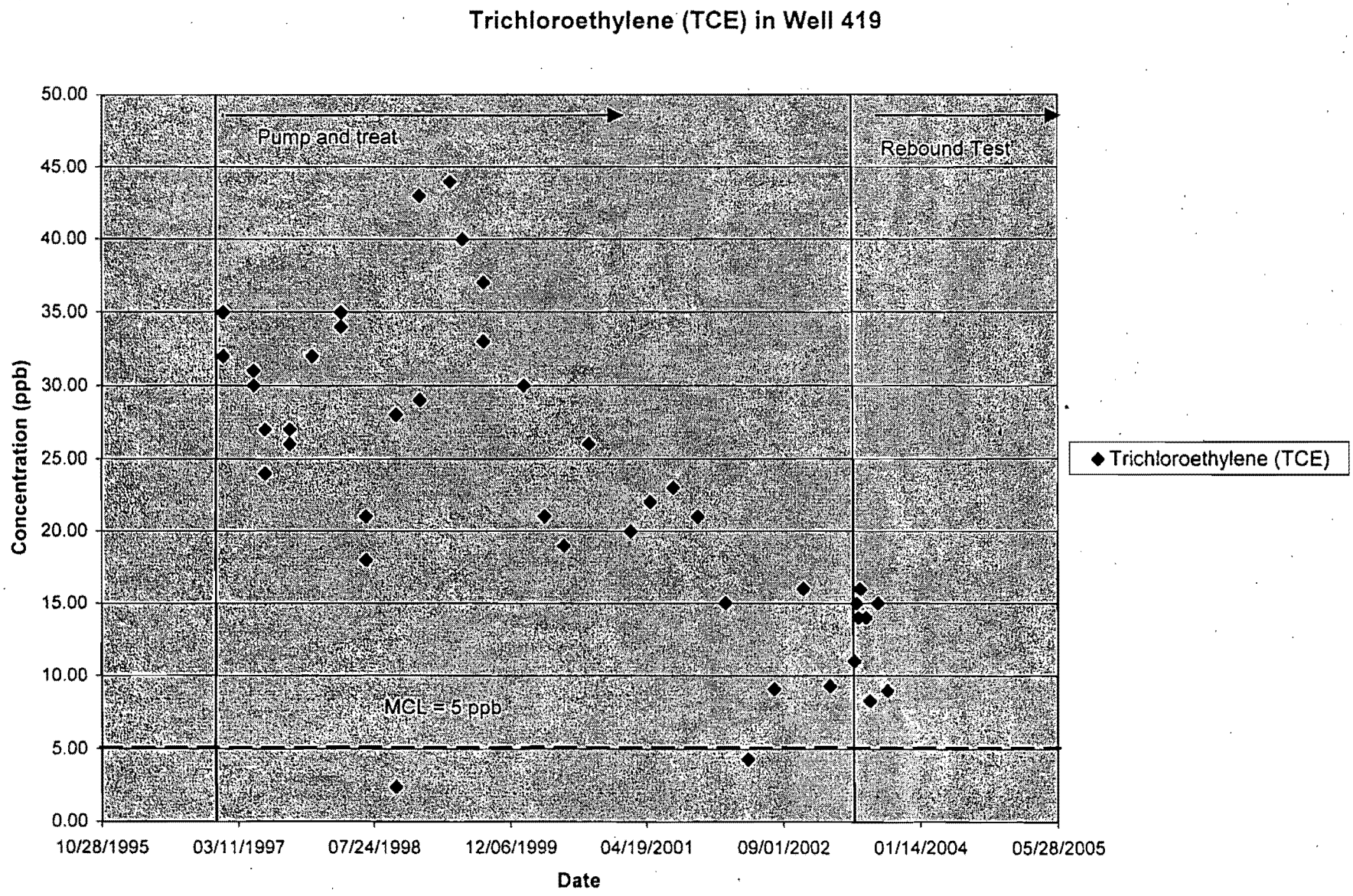
ES2



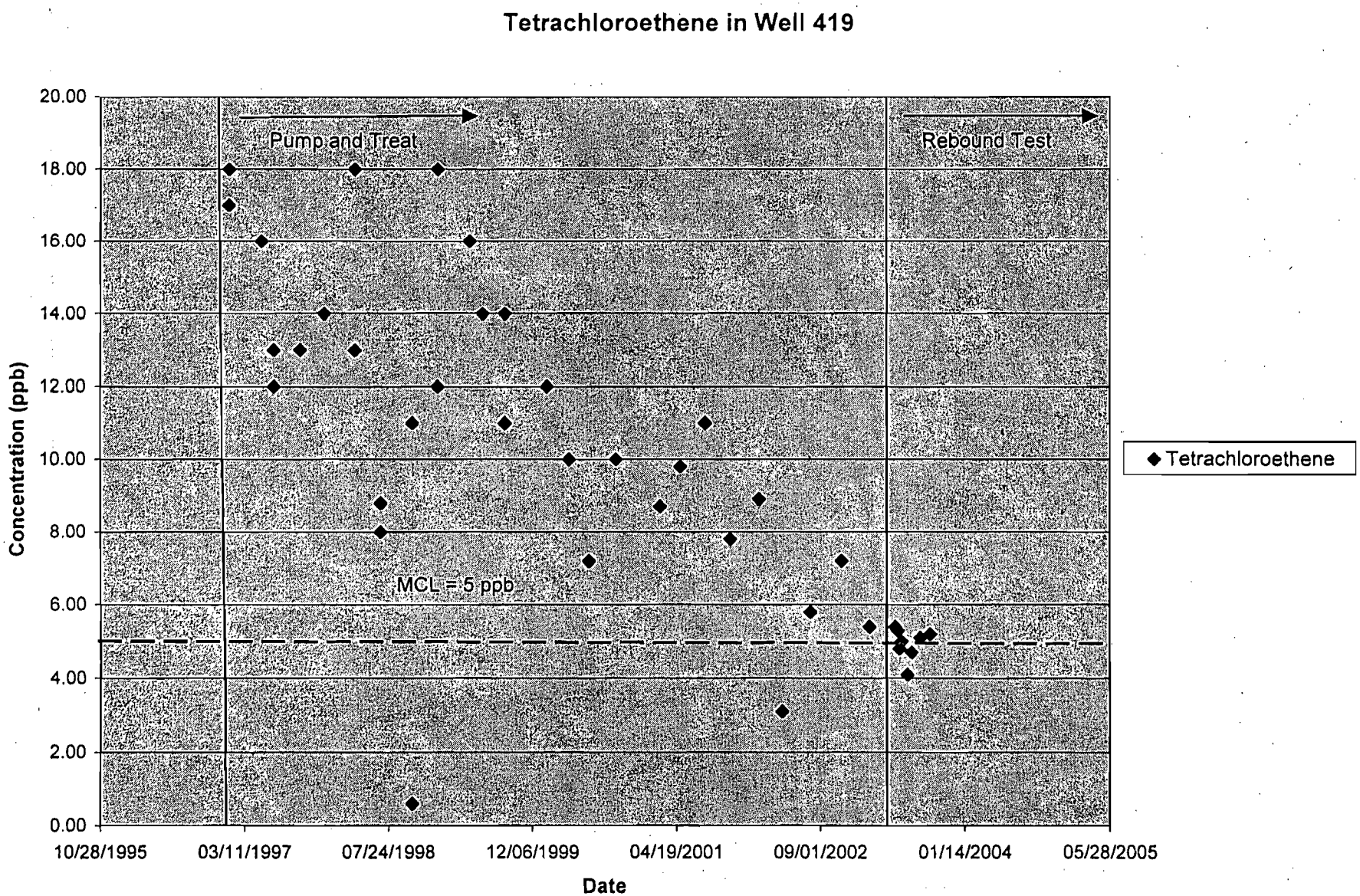

4/2004


Tetrachloroethene in Well 418
Pump and treat
Rebound Test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date

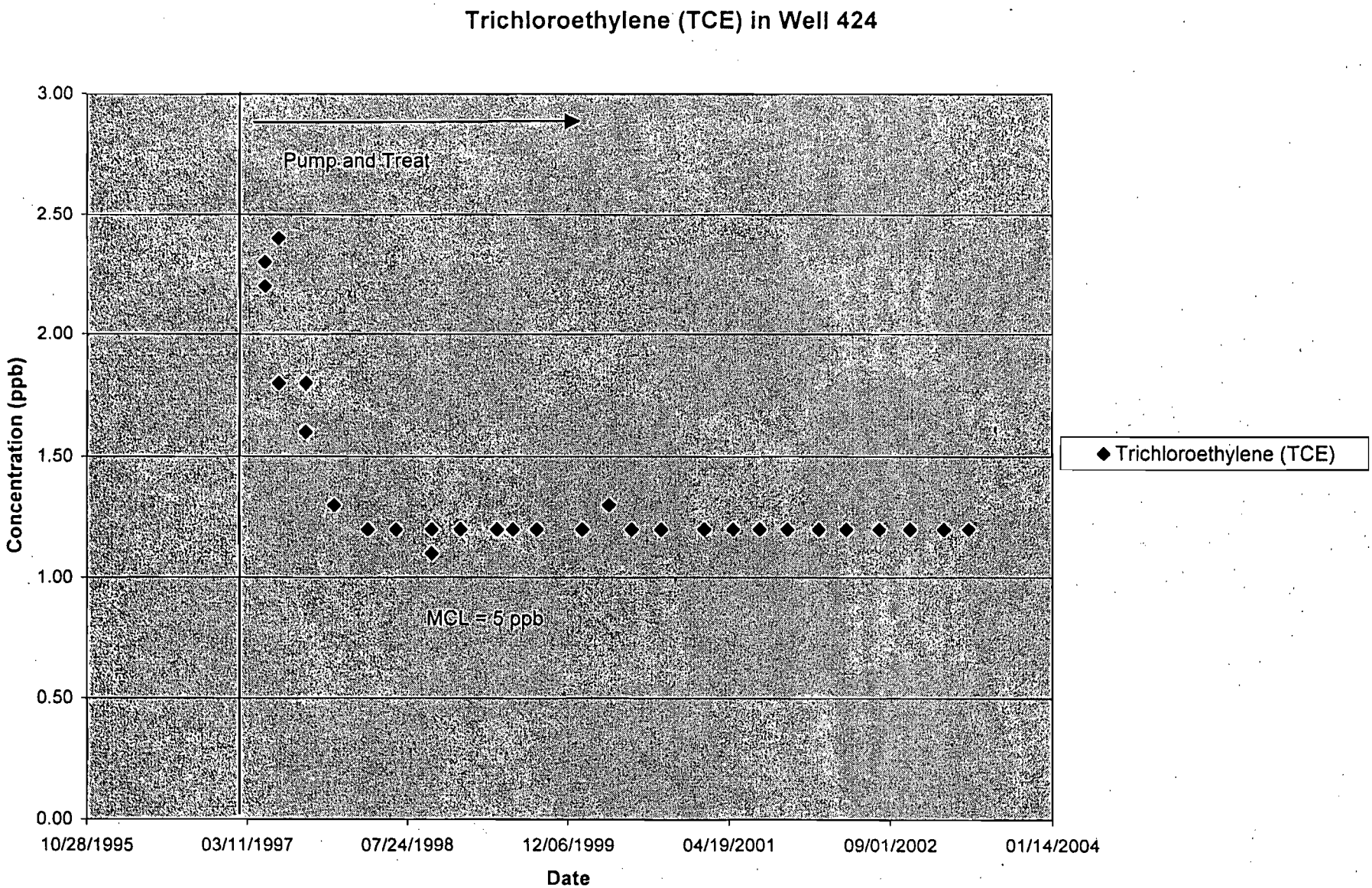
E54


Trichloroethylene (TCE) in Well 419
Pump and treat
Rebound Test
MCL = 5 ppb
Concentration (ppb)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

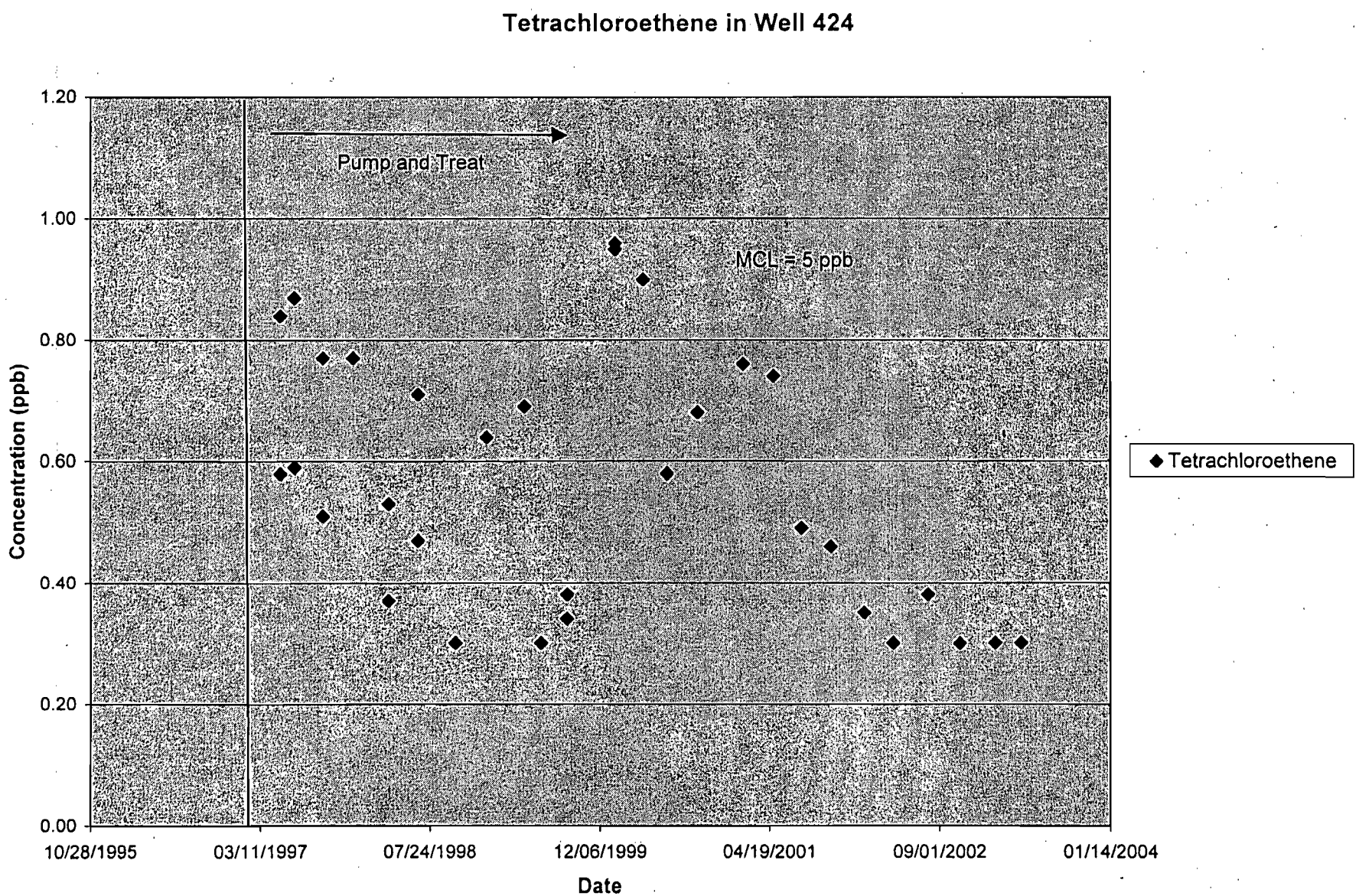
E55


Tetrachloroethene in Well 419
Pump and Treat
Rebound Test
MCL = 5 ppb
Concentration (ppb)
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

E56

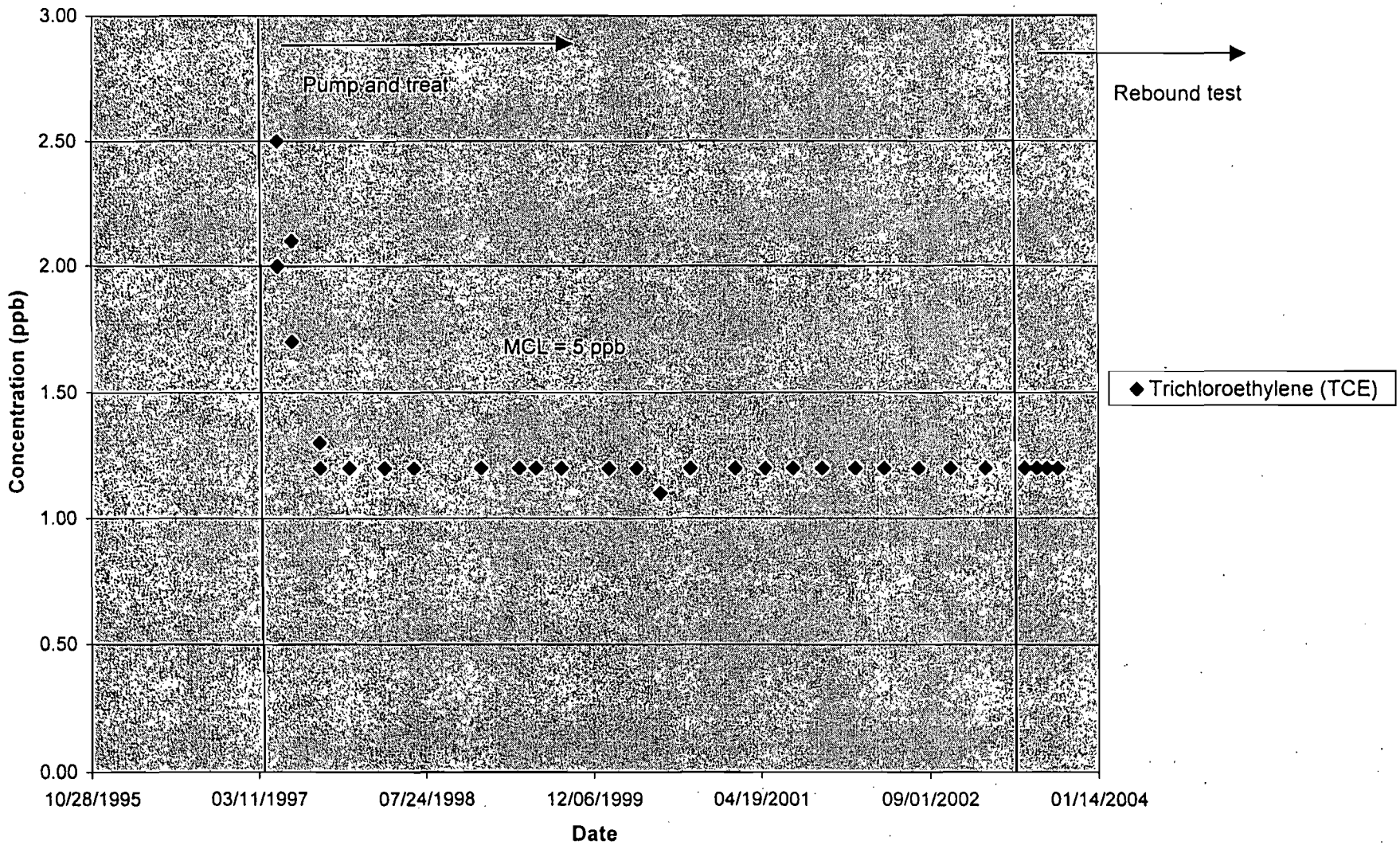

Trichloroethylene (TCE) in Well 424
Pump and Treat
MCL = 5 ppb
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Trichloroethylene (TCE)

E57

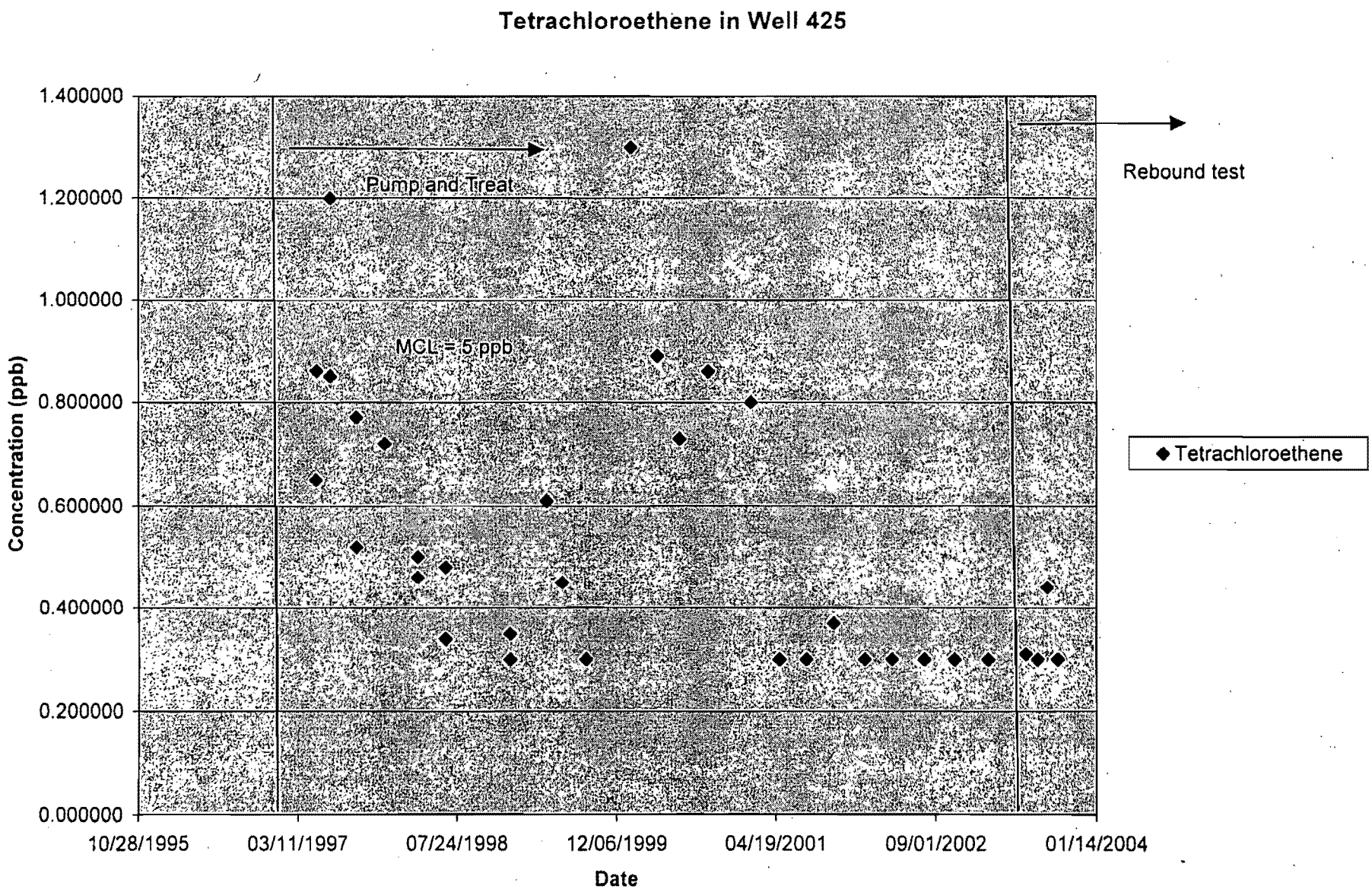

Tetrachloroethene in Well 424
Pump and Treat
MCL = 5 ppb
Concentration (ppb)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Tetrachloroethene

E 58

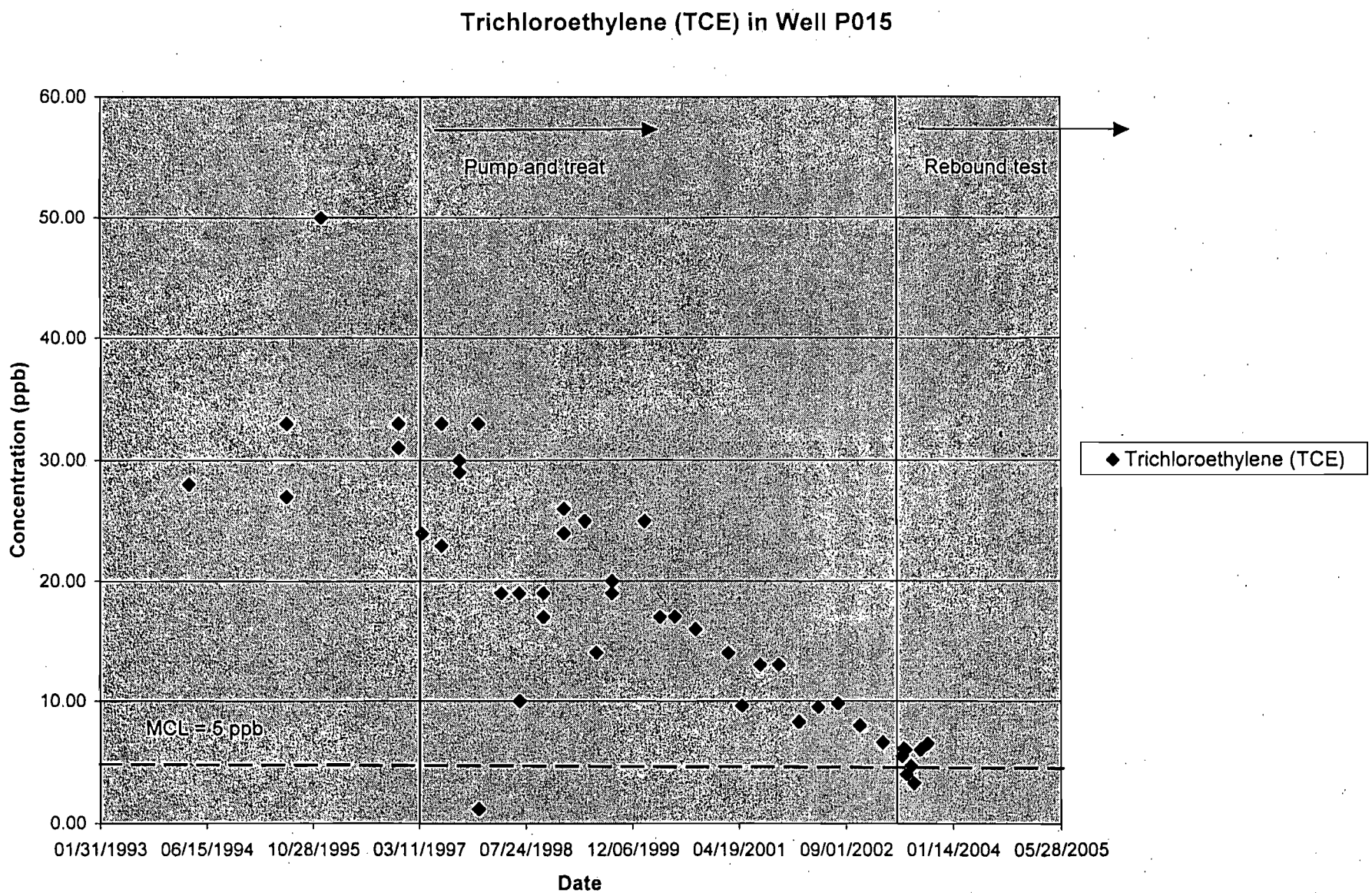
## Trichloroethylene (TCE) in Well 425



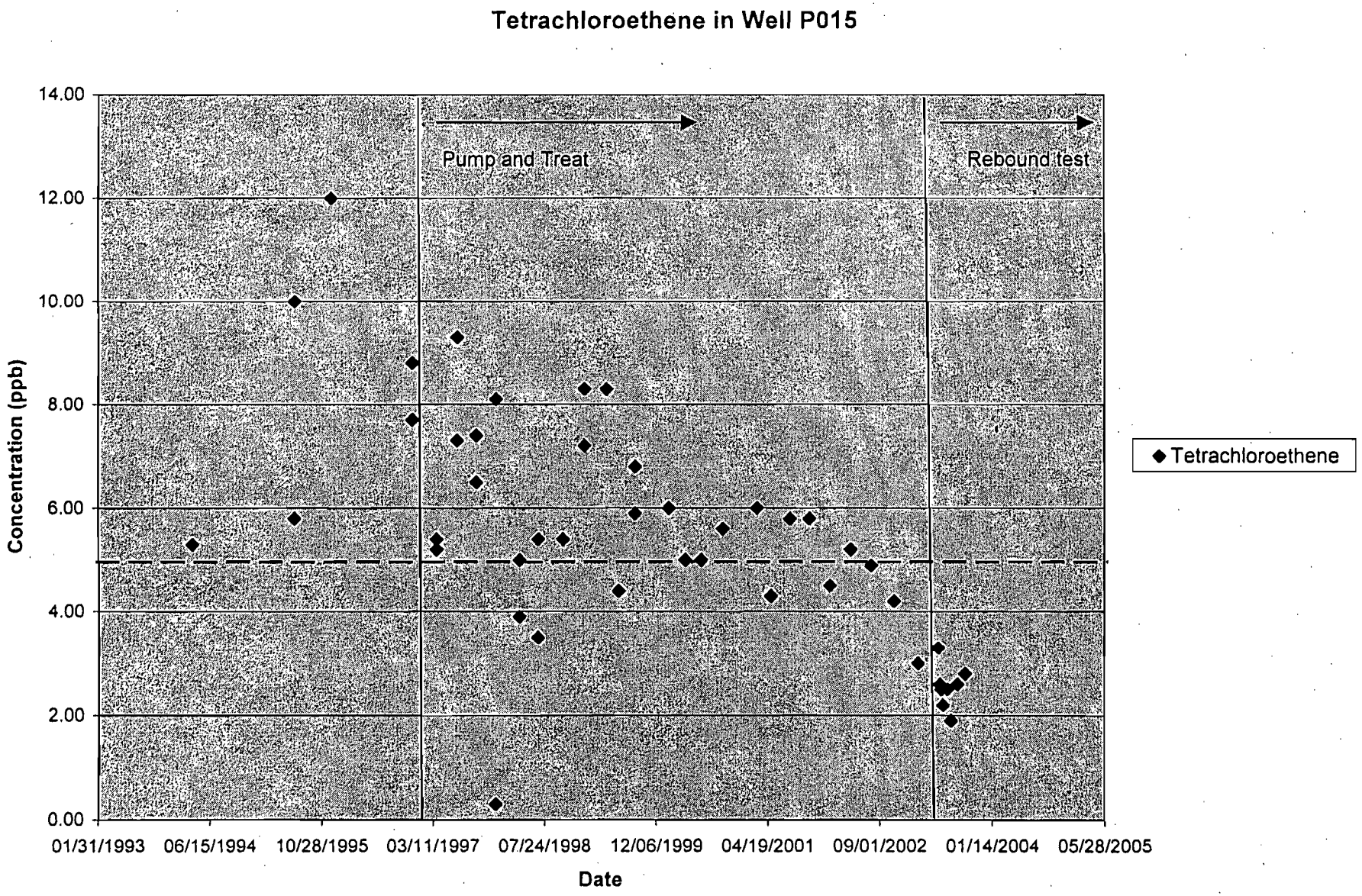

E59


Tetrachloroethene in Well 425
1.400000
1.200000
1.000000
0.800000
0.600000
0.400000
0.200000
0.000000
Concentration (ppb)
Pump and Treat
MCL = 5 ppb
Rebound test
Tetrachloroethene
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date

E 60

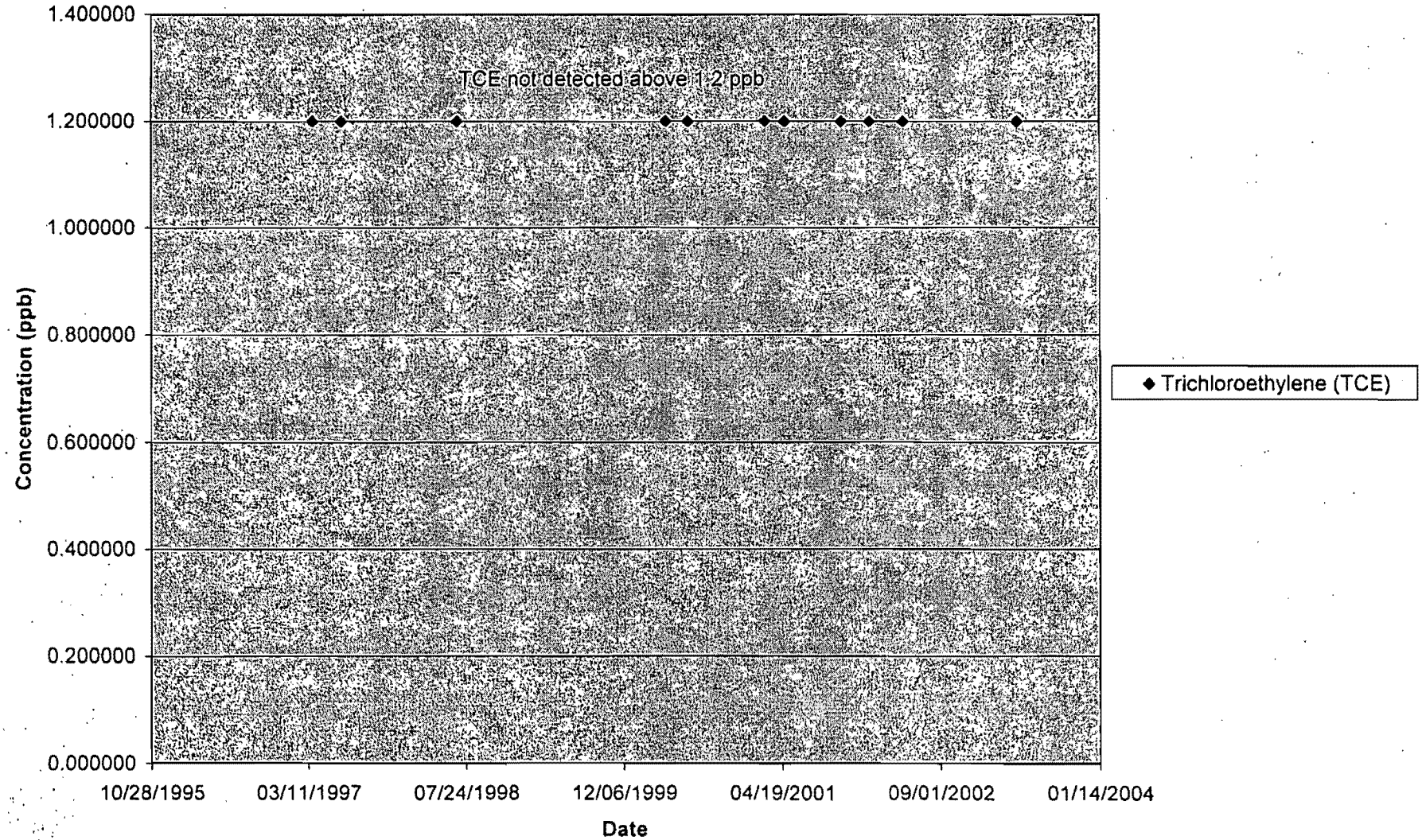

Trichloroethylene (TCE) in Well P015
Pump and treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
Concentration (ppb)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

E61


Tetrachloroethene in Well P015
Pump and Treat
Rebound test
Concentration (ppb)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

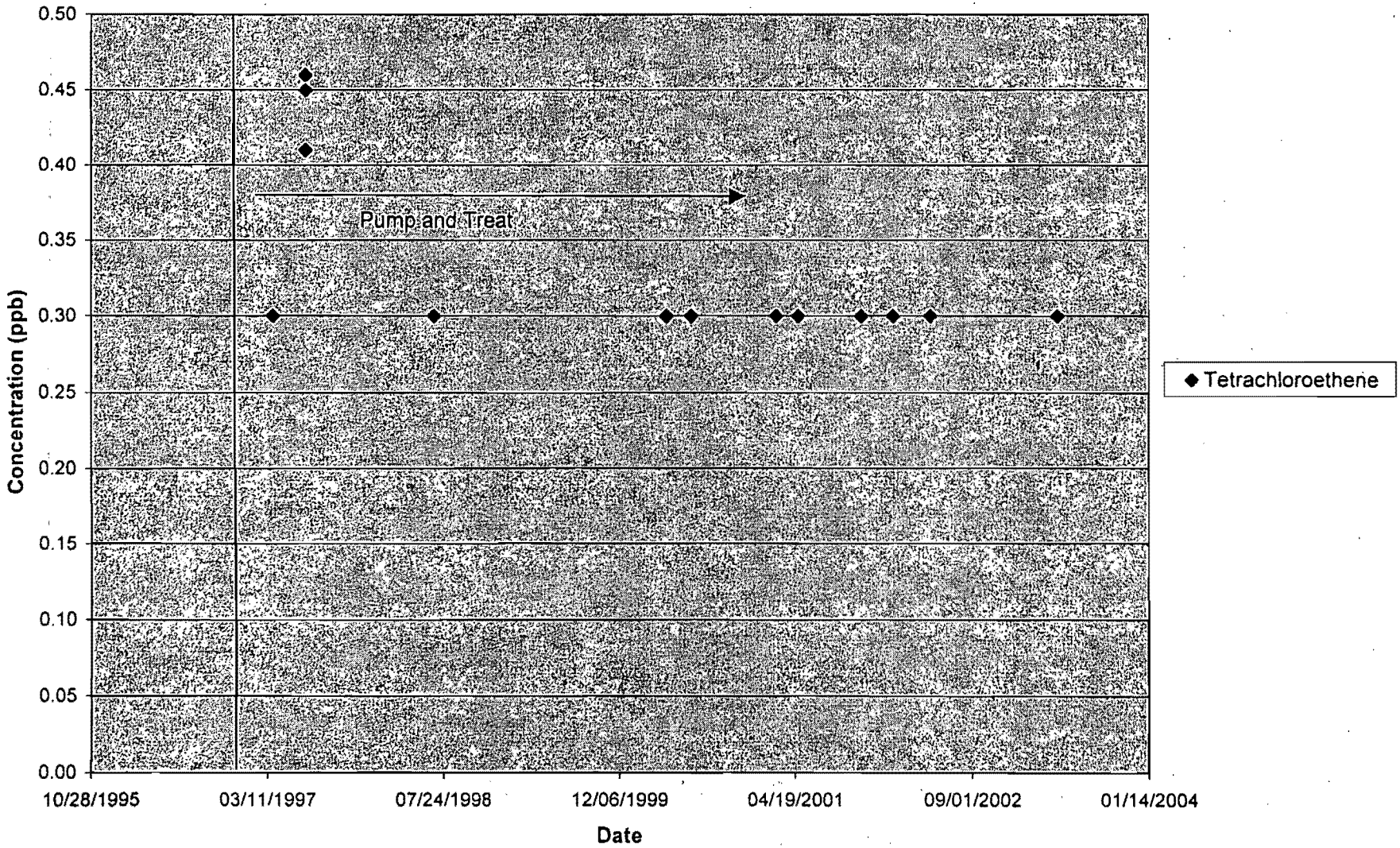
E62

## Trichloroethylene (TCE) in P025



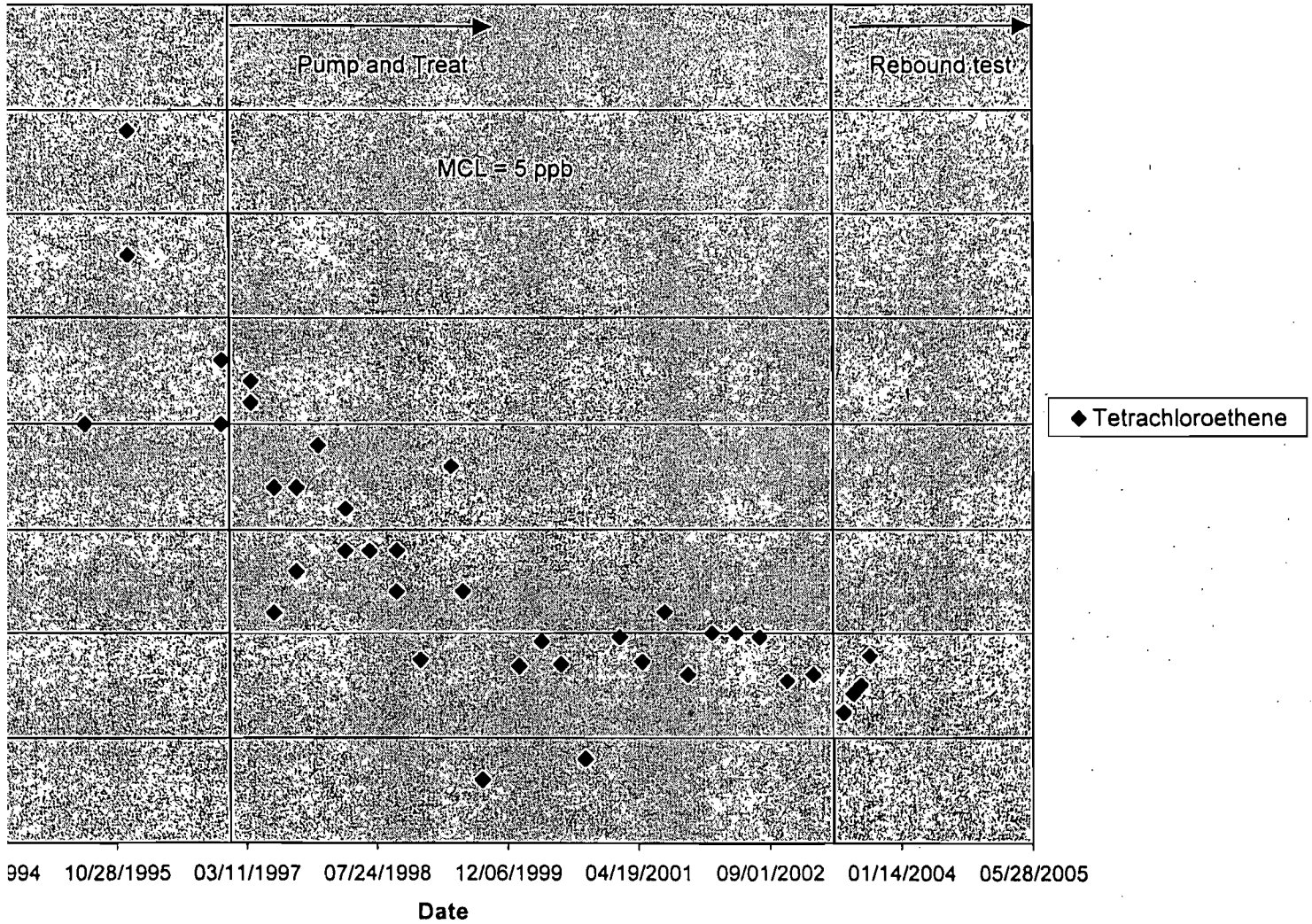

E63

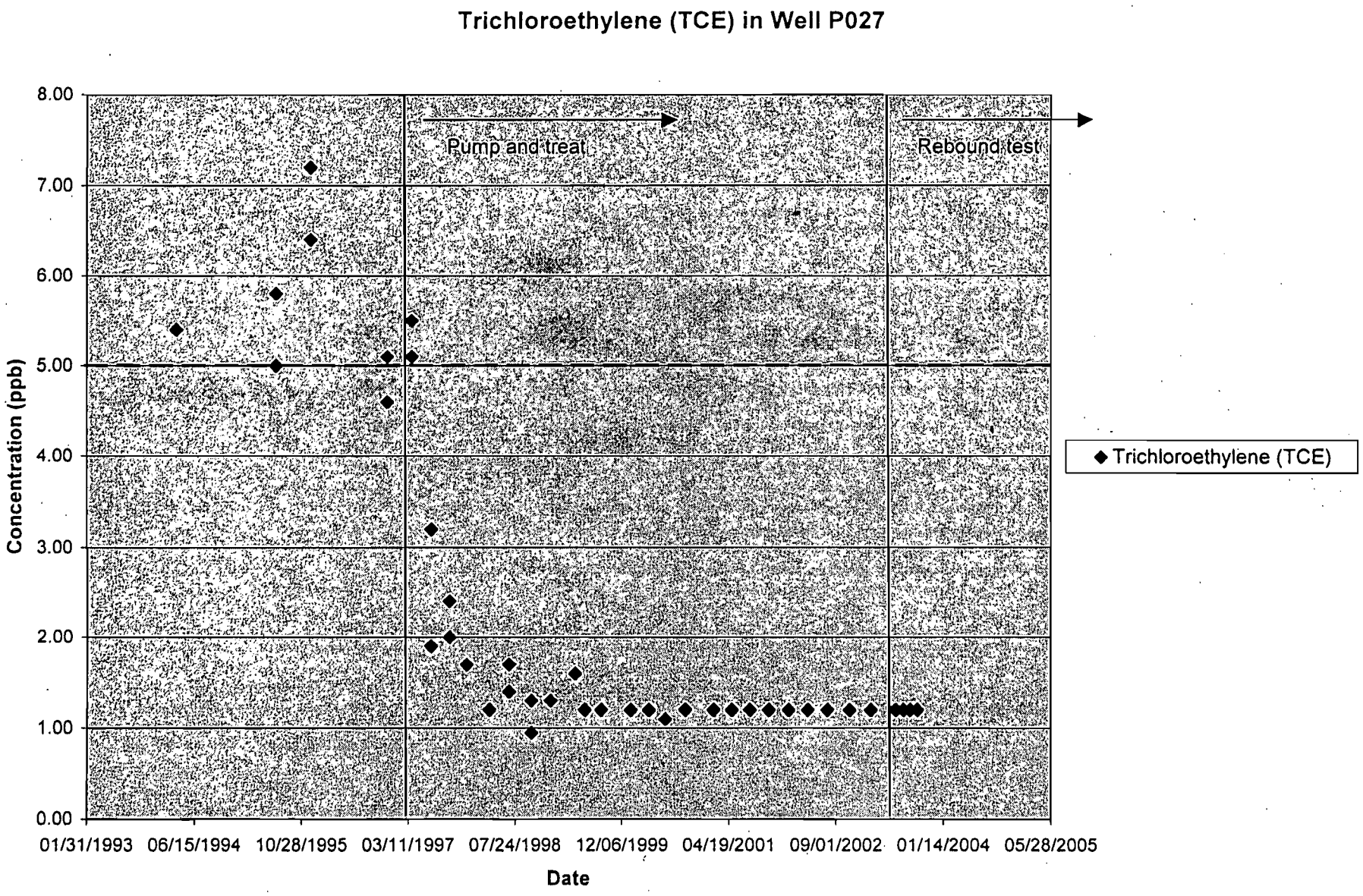
## Tetrachloroethene in Well P025

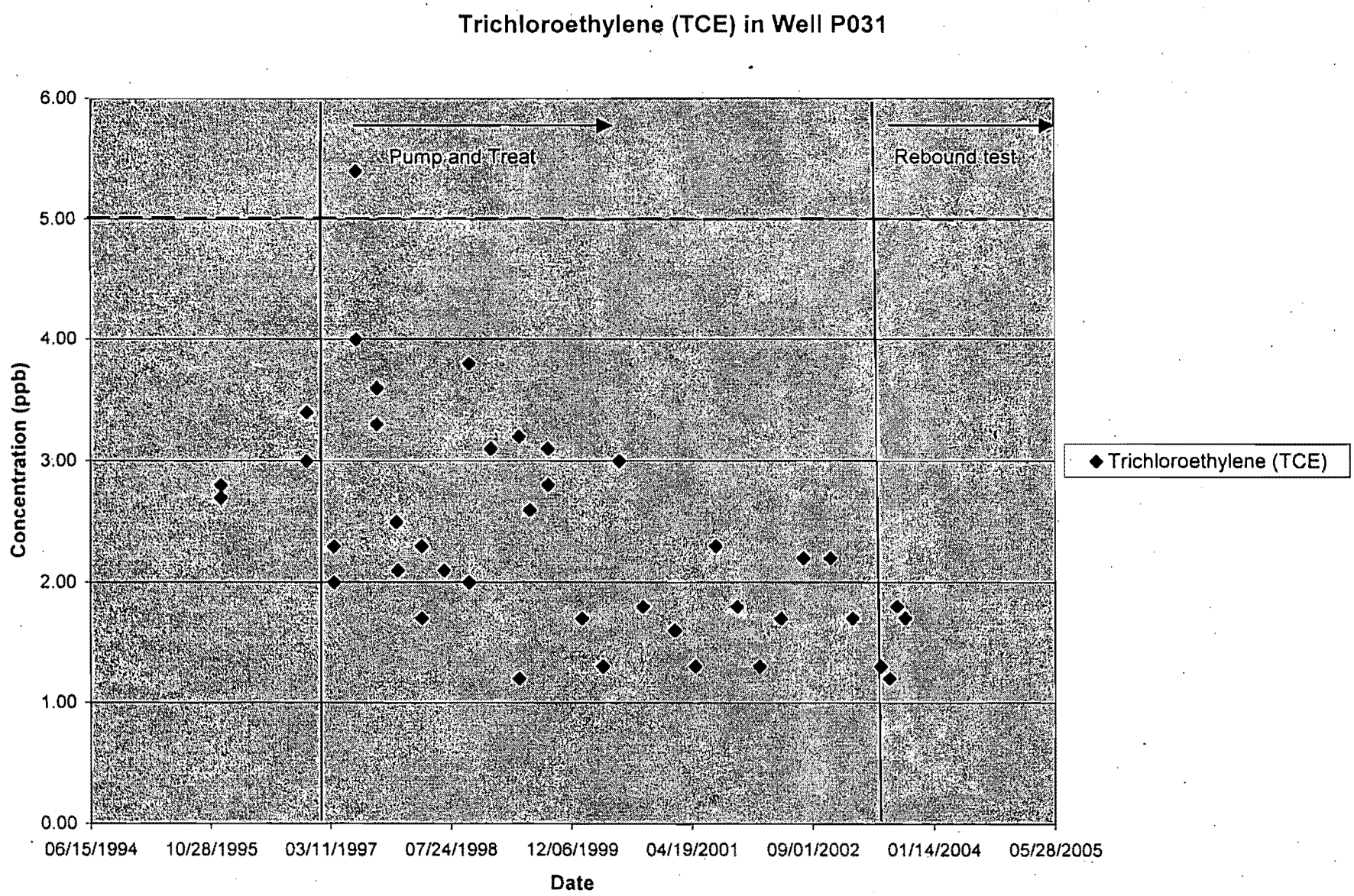



E67

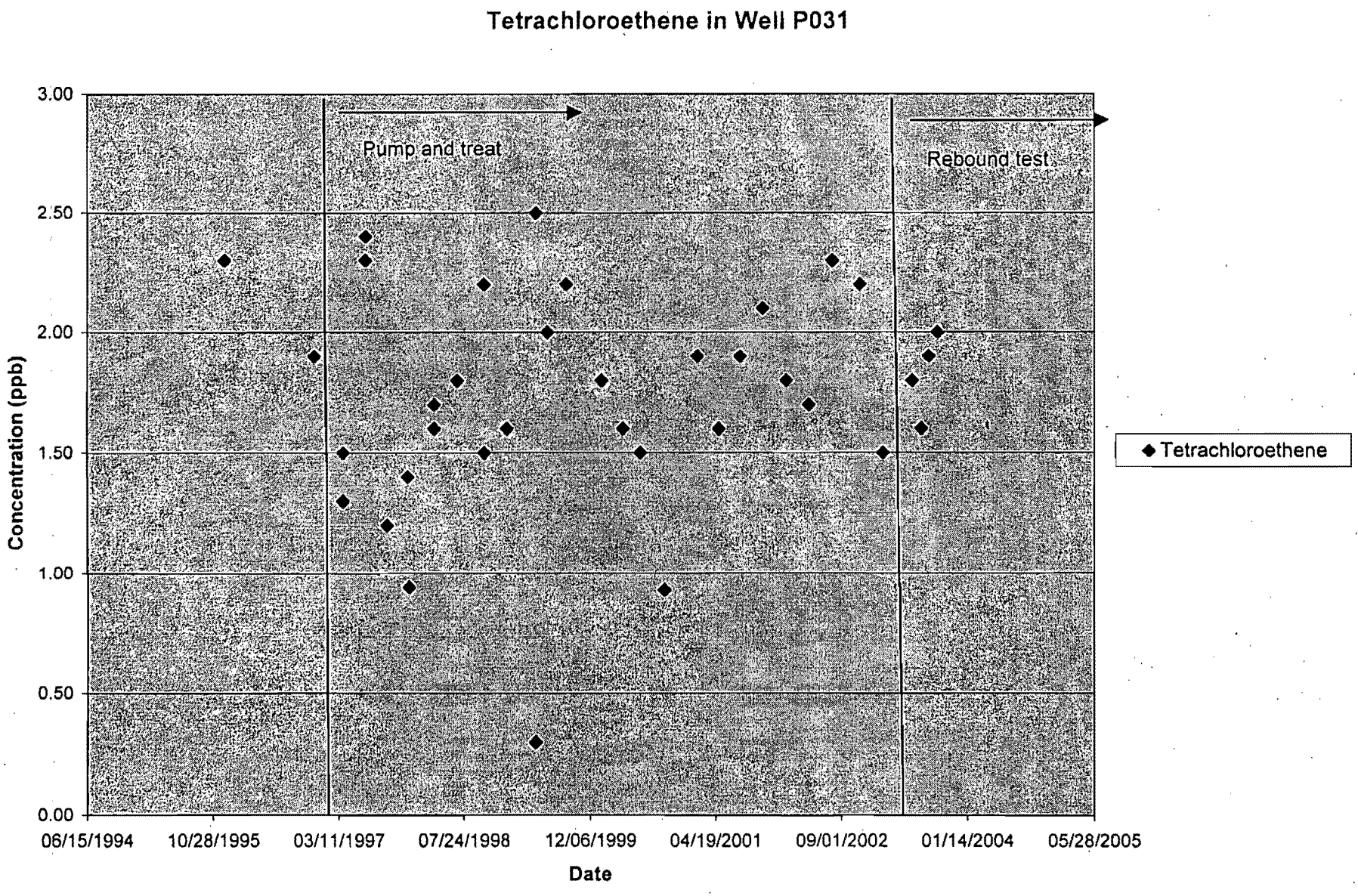
## Tetrachloroethene in Well P027



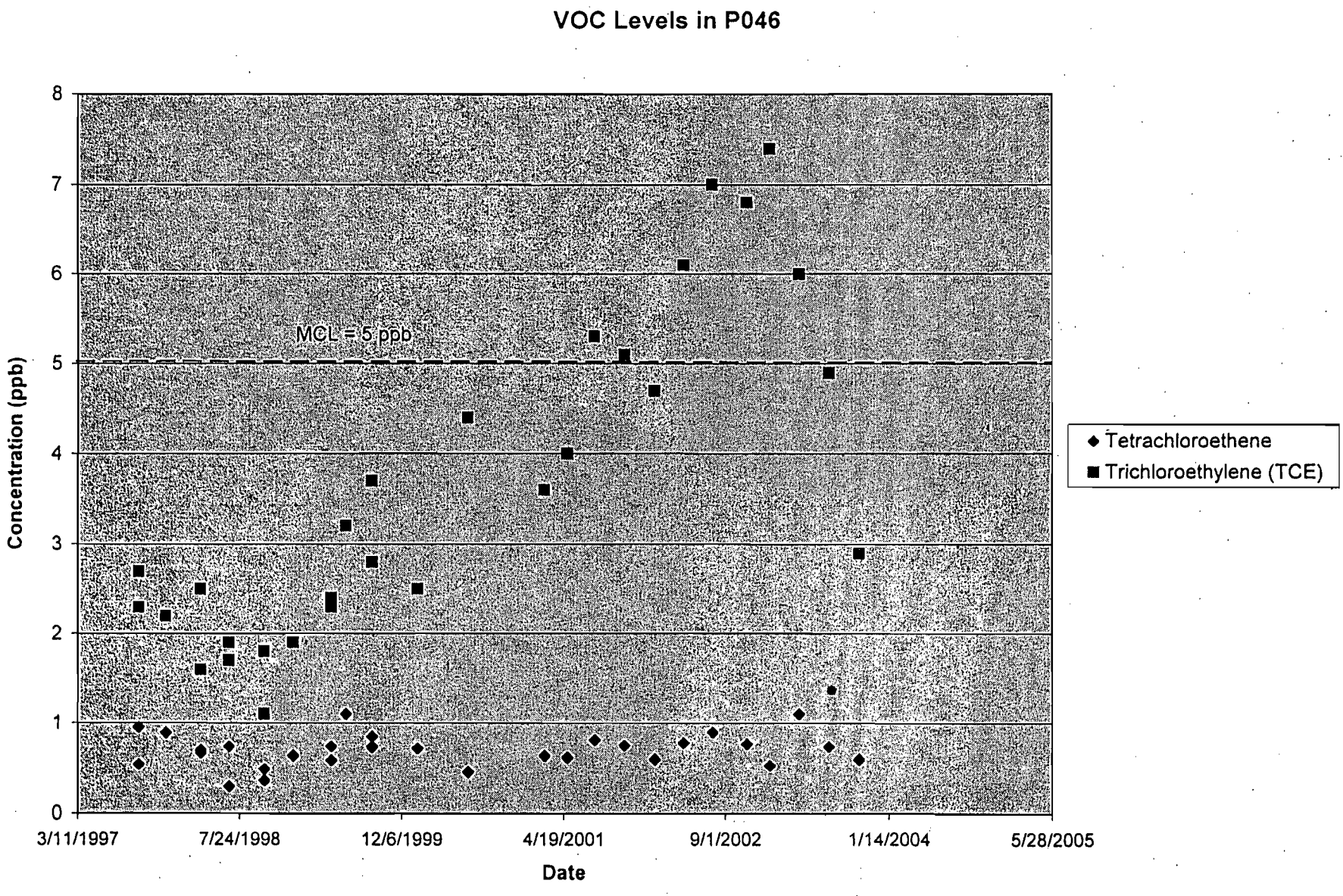

Trichloroethylene (TCE) in Well P027
Pump and treat
Rebound test
Concentration (ppb)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)


Trichloroethylene (TCE) in Well P031
Pump and Treat
Rebound test
Concentration (ppb)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

E67


Tetrachloroethene in Well P031
Pump and treat
Rebound test
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

897


VOC Levels in P046
Concentration (ppb)
8
7
6
5
4
3
2
1
0
MCL = 5 ppb
3/11/1997
7/24/1998
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
Date
Tetrachloroethene
Trichloroethylene (TCE)

E69

# APPENDIX C

## GEOLOGIC WELL LOGS

| GEOLOGIC LOG | MOUND PLANT | Project Manager William Little | PAGE: 1 of 3 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Company | NORTH STAR DRILLING | Borehole/Well Id | P015 |
| Drilling Method | ROTO SONIC | STATE PLANE COORDINATES | |
| Drilling Fluid | NONE | North (ft) | 596352.10 |
| Date Started | 10/26/92 | East (ft) | 1495271.70 |
| Date Completed | 10/26/92 | Ground Surface Elev. (ft) | 734.99 |
| Logged By | ERIC LARSEN | Top of Casing Elev. (ft) | 737.52 |
| Checked By | TOM THARP | Total Depth (ft) | 57.0 |

Comments: Piezometer located within the north-central portion of the spoils area, directly east of Mound production well 0071, and southeast of monitoring wells 0305/0309.

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Casing: PVC, 2" | | | FL | 0.0 to 10.0' - Dark yellowish brown (10YR 4/4) silt, clay, sand, and gravel, soft to firm, variably proportioned, occasional zones of large cobbles and boulders, dry. Fill. |
| | | | | Backfill: Cement and bentonite grout | | | | |
| 5 | O | GC | 0005 | | | | | |
| 10 | O | GC | 0010 | | | | | 10.0 to 20.0' - Dark grayish brown (2.5Y 4/2) clayey silt, slightly firm, some fine to medium gravel, boulder at 13.1', moist. Fill. |
| | O | GC | 0014 | | | | | |
| 15 | | GC | 1014 | | | | | |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 49.20 | 11:55 | 10/26/92 |
| ▼ | 46.92 | | 11/24/92 |

E71

WESTON

# GEOLOGIC LOG

**MOUND PLANT**

Project Manager: William Little



Borehole/Well Id: P015

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| | O | GC | 0048 | Filter Pack: 20/40 quartz sand | | | GM-GP | |
| 50 | | | | Screen: PVC, 2" | | | SP | 50.3 to 53.9' - Yellowish brown (10YR 5/4) sand, loose, predominantly coarse to very coarse grained, well sorted, minor very fine to fine gravel, trace silt, trace fine to medium grained sand, saturated. Outwash. |
| | | | | | | | GM-GP | 53.9 to 55.0' - Yellowish brown (10YR 5/6) silty, sandy gravel, loose, fine to very coarse grained sand, fine to very coarse gravel, many large cobbles, poorly sorted, trace clay, saturated. Outwash. |
| 55 | O | GC | 0055 | | | | | |
| | O | GC | 0056 | Backfill: Native sediment | | | SH | 55.0 to 57.0' - Gray to dark gray (7.5YR 6/0 to 4/0) shale, hard, slightly fossiliferous, 10 - 20% silt, some foliation, limonite staining along partings, dry. Bedrock. |
| | | | | | | | | Total Depth = 57.0'. |
| 60 | | | | | | | | |
| 65 | | | | | | | | |
| 70 | | | | | | | | |

GROUNDWATER

| DEPTH | HOUR | DATE |
|---|---|---|
| 49.20 | 11:55 | 10/26/92 |
| 46.92 | | 11/24/92 |

E72

WESTON

| GEOLOGIC LOG | MOUND - OU9 | Project Manager GORDON HORN | PAGE: 1 of 2 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Company | NORTH STAR DRILLING | Borehole/Well Id | P025 |
| Drilling Method | ROTOSONIC DRILL | STATE PLANE COORDINATES | |
| Drilling Fluid | WATER | North (ft) | 596238.43 |
| Date Started | 2/2/93 | East (ft) | 1494979.56 |
| Date Completed | 2/2/93 | Ground Surface Elev. (ft) | 703.77 |
| Logged By | DARLENE WILLIAMS | Top of Casing Elev. (ft) | 703.77 |
| Checked By | PAUL DARR | Total Depth (ft) | 25.0 |
| Comments: | East access road. | | |

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Casing: PVC, 2" | | | FL | 0.0 to 0.5' - Sandy gravel, loose, fresh, dry. Fill. |
| | | | | | | | SC | 0.5 to 4.5' - Dark brown clayey sand, organic rich, little silt, little fine gravel, moist. |
| | | | | Backfill: Cement - bentonite grout | | | | |
| 5 | | | | | | | GP | 4.5 to 5.0' - Sandy gravel, little silt, loose, slight petroleum odor, angular to subrounded, dry.<br>5.0 to 10.0' - Sandy gravel, little silt, loose, slight petroleum odor, angular to subrounded, dry. |
| 10 | A | GC | 0011 | | | | | 10.0 to 11.0' - Sandy gravel, loose, little silt, slight petroleum odor, angular to subrounded, dry. |
| | | | | | | | TI | 11.0 to 14.0' - Sandy clay, trace gravel, some silt, firm, dry. Till. |
| 15 | | | | Seal: 1/4" Bentonite chips | | | GP | 14.0 to 15.0' - Sandy gravel, some silt, fine to coarse, loose, subangular to subrounded, petroleum odor, damp.<br>15.0 to 20.0' - Sandy gravel, some silt, large pieces of limestone, fine to coarse, loose, subangular to subrounded, petroleum odor, damp. |
| | | | | Filter Pack: 10/20 Colorado silica sand | | | | |
| 20 | | | | Screen: PVC, 2", slot | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▼ | 21.38 | 08:55 | 02/06/93 |
| ▼ | 22.18 | 09:14 | 05/19/93 |

E73

WESTON

| GEOLOGIC LOG | MOUND - OU9 | Project Manager GORDON HORN | PAGE: 1 of 2 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Company | NORTH STAR DRILLING | Borehole/Well Id | P027 |
| Drilling Method | ROTOSONIC DRILL | STATE PLANE COORDINATES | |
| Drilling Fluid | WATER | North (ft) | 596249.25 |
| Date Started | 1/9/93 | East (ft) | 1495078.43 |
| Date Completed | 1/9/93 | Ground Surface Elev. (ft) | 703.39 |
| Logged By | DALE FLORES | Top of Casing Elev. (ft) | 705.72 |
| Checked By | PAUL DARR | Total Depth (ft) | 40.0 |
| Comments: | South of Area B landfill. | | |

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Casing: PVC, 2" | | | TS | 0.0 to 1.5' - Brown gravelly clay, root structures. Topsoil. |
| | | | | | | | FL | 1.5 to 5.0' - Dark brown to olive brown gravelly clay, fine to coarse gravels, dense, moist. Fill. |
| | | | | Backfill: Cement - bentonite grout | | | | |
| 5 | | | | | | | CL | 5.0 to 6.5' - Greenish brown clay, trace gravel, root structures, probable buried soil horizon. |
| | | | | | | | GP | 6.5 to 15.0' - Light brown sandy gravel, trace clay, rounded, poorly sorted. Outwash. |
| 10 | | | | | | | | |
| 15 | | | | | | | | 15.0 to 17.0' - Light brown sandy gravel, trace silt, pieces of angular limestone, rounded, poorly sorted. Outwash. |
| | | | | | | | TI | 17.0 to 20.0' - Yellowish brown silty clay, fine to coarse sand, gravel to 2", high plasticity, very stiff. Till. |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▼ | 22.30 | 09:55 | 02/06/93 |
| ▼ | 24.71 | 09:57 | 05/19/93 |

E74

WESTON

| GEOLOGIC LOG | MOUND - OU9 | Project Manager GORDON HORN | PAGE: 1 of 2 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Company | NORTH STAR DRILLING | Borehole/Well Id | P031 |
| Drilling Method | ROTOSONIC DRILL | STATE PLANE COORDINATES | |
| Drilling Fluid | WATER | North (ft) | 596023.27 |
| Date Started | 1/9/93 | East (ft) | 1495119.06 |
| Date Completed | 1/11/93 | Ground Surface Elev. (ft) | 700.97 |
| Logged By | DALE FLORES | Top of Casing Elev. (ft) | 703.35 |
| Checked By | PAUL DARR | Total Depth (ft) | 35.0 |
| Comments: | Near Mound Plant production wells. | | |

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | Casing: PVC, 2" | | | TS | 0.0 to 1.0' - Light brown to tan clay, trace gravel, good root structure, medium dense clay, moist. Topsoil. |
| | | | | | | | FL | 1.0 to 5.0' - Dark brown silty clay, trace gravel, very dense, high plasticity. Fill. |
| | | | | Backfill: Cement - bentonite grout | | | | |
| 5 | | | | | | | | 5.0 to 6.0' - Silty sand, fine to medium grained sand 40 to 50% silt, moist. Fill. 6.0 to 7.0' - Light to dark brown silty clay, trace sand, trace root structure. Fill. |
| | | | | | | | GC | 7.0 to 8.0' - Light brown to yellowish brown clayey gravel, trace sand, significant cobbles to 4". |
| | | | | | | | TI | 8.0 to 9.0' - Yellow brown gravelly clay, moderate plasticity, angular to rounded. Till. |
| 10 | | | | | | | GP | 9.0 to 16.0' - Sandy gravel, trace clay, gravel to cobble size, angular to rounded, 60% gravel, 30% coarse sand, 10% silty clay. |
| 15 | | | | | | | | 16.0 to 19.0' - Rust brown sandy gravel, trace clay, gravel to cobble size, angular to rounded, 60% gravel, 30% coarse sand, 10% silty clay. |
| 20 | | | | | | | SP | 19.0 to 22.0' - Light brown gravelly sand, coarse sand, fine gravel. |

GROUNDWATER

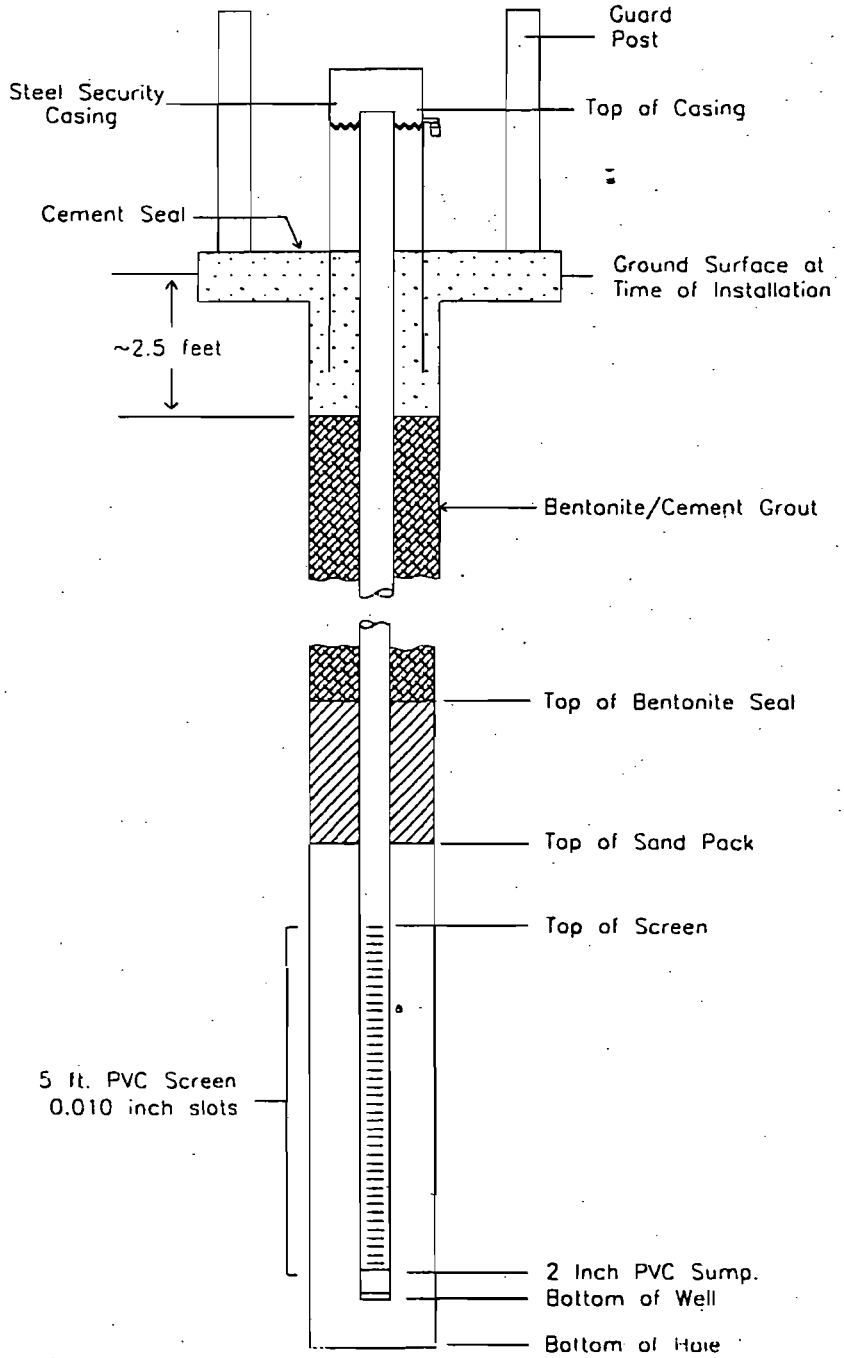
| DEPTH | HOUR | DATE |
|---|---|---|
| 18.50 | 08:15 | 01/11/93 |
| 22.22 | 09:32 | 05/19/93 |

E75

WESTON

# GROUNDWATER MONITORING WELL

| | | | |
|---|---|---|---|
| Well Diameter | 2 inch | Well Number | P043 |
| Borehole Diameter | 6 inch | Completion Date | 3/12/97 |
| Casing Material | PVC | Completed By | Terran / Bowser Morner |
| Screen Material | PVC Slotted | Drilling Method | Hollow Stem Auger |
| Project | EGG297 | Location | EG&G Mound |




| | Vertical | Elevation |
|---|---|---|
| Top of Casing | +2.06' | 704.803 |
| Ground Surface at Time of Installation | 0' | 702.74 |
| Top of Bentonite Seal | 36.5' | 666.24 |
| Top of Sand Pack | 43.0' | 666.24 |
| Top of Screen | 46.33' | 656.41 |
| Bottom of Well | 51.50' | 651.24 |
| Bottom of Hole | 52.5' | 650.24 |

E76

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P043 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | SHEET 1 OF 1 |
| | SAMPLING METHOD: N/A | | |

| | | | | | DRILLING START DATE | DRILLING FINISH DATE |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | | |
| TIME | | | | | 3/12/97 | 3/12/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 1300 | 1625 |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

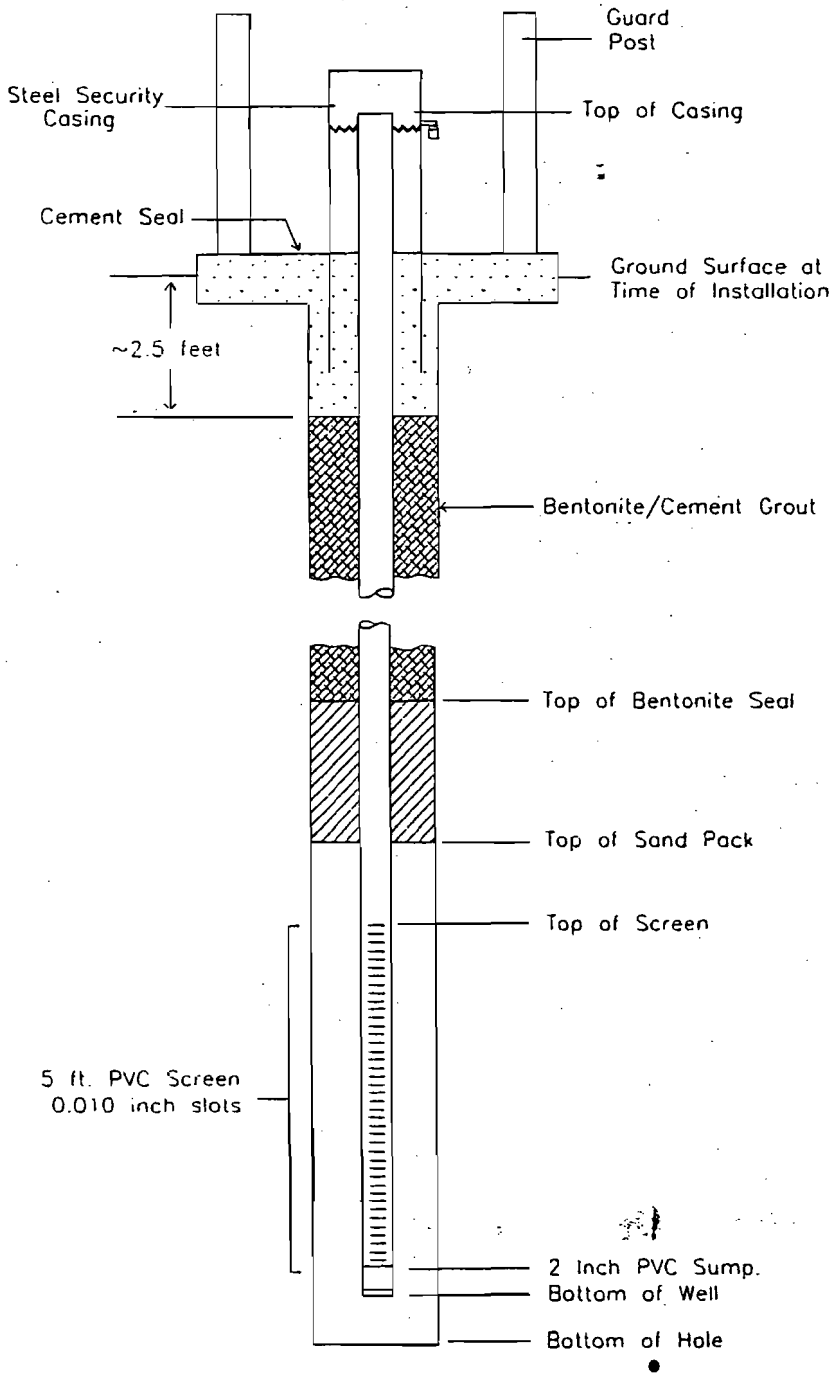
| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS |
|---|---|---|---|---|---|---|---|
| | | | | | | 0 | |
| | | | | | | 1 | |
| | | | | | | 2 | |
| | | | | | | 3 | |
| | | | | | | 4 | |
| | | | | | | 5 | |
| | | | | | | 6 | |
| | | | | | | 7 | |
| | | | | | | 8 | |
| | | | | | | 9 | |
| | | | | | | 10 | |
| | | | | | | 11 | |
| | | | | | | 12 | |
| | | | | | | 13 | |
| | | | | | | 14 | |
| | | | | | | 15 | |
| | | | | | | 16 | |
| | | | | | | 17 | |
| | | | | | | 18 | |
| | | | | | | 19 | |

BORING P043 WAS NOT LOGGED

E77

# GROUNDWATER MONITORING WELL

| | | | |
|---|---|---|---|
| Well Diameter | 2 inch | Well Number | P044 |
| Borehole Diameter | 6 inch | Completion Date | 3/10/97 |
| Casing Material | PVC | Completed By | Terran / Bowser Morner |
| Screen Material | PVC Slotted | Drilling Method | Hollow Stem Auger |
| Project | EGG297 | Location | EG&G Mound |




| | Vertical | Elevation |
|---|---|---|
| Top of Casing | +2.42' | 704.38 |
| Ground Surface at Time of Installation | 0' | 701.96 |
| Top of Bentonite Seal | 33.50' | 668.46 |
| Top of Sand Pack | 41.50' | 660.46 |
| Top of Screen | 44.06' | 657.90 |
| Bottom of Well | 49.23' | 652.73 |
| Bottom of Hole | 49.92' | 652.04 |

E78

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P044 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | |
| | | | SHEET 1 OF 3 |
| | SAMPLING METHOD: N/A | | |
| | | | DRILLING |
| | | | START / FINISH |
| | WATER LEVEL | | DATE / DATE |
| | TIME | | 3/10/97 / 3/10/97 |
| | DATE | | TIME / TIME |
| DATUM ELEVATION | CASING DEPTH | | 0920 / 1330 |

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 0930 | 24/24 | | | 5,4, 4,7 | | 1 | OL | 7.5 YR 3/4 2.5 Kg/cm2, MOIST, ORGANIC CLAY WITH GRASS & PLANT ROOTS, LOW TO MED PLASTICITY, MOIST, DARK BROWN, SOME SUBROUNDED PEBBLES, SOFT, GROUP SYMBOL (OL), NO ODOR. |
| 0934 | 24/24 | | | 3,5, 6,6 | | 2, 3 | OL | 7.5 YR 3/3, 3.25 Kg/cm2, CLAYEY SILT WITH ORGANIC CLAY, LOW TO MED. PLASTICITY, DRY, DARK BROWN, SOME SUBROUNDED PEBBLES, FIRM, GROUP SYMBOL (OL), NO ODOR. |
| 0941 | 24/15 | | | 3,4, 4,12 | | 4, 5 | SM | 10 YR 2/2, 0.25 Kg/cm2, MOIST, SILTY SAND, WITH SUBROUNDED PEBBLES AND POORLY SORTED SAND @ TOP SIX INCHES OF SAMPLE, MED. PLASTICITY, SOFT, GROUP (SM), NO ODOR, SOFT. |
| 0947 | 24/20 | | | 7,13, 13,15 | | 6, 7 | SM-SC | 10 YR 3/3, 0.75 Kg/cm2, DRY, SILTY SAND WITH SUBROUNDED PEBBLES, MED. TO HIGH PLASTICITY, DARK BROWN, SOFT, NO ODOR, GROUP (SM-SC). |
| 0953 | 24/20 | | | 8,12, 22,28 | | 8, 9 | GP | 7.5 YR 4/3 0.25 Kg/cm2 DRY, SANDY-SILTY GRAVEL WITH COBBLES, SUBANGULAR TO SUBROUNDED, POORLY SORTED, LOW PLASTICITY, DRY, SOFT. LT. TO DARK BROWN, GROUP SYMBOL (GP), NO ODOR. |
| 0956 | 24/15 | | | 4,16, 18,19 | | 10, 11 | CL | 10 YR 3/3, 0.5 Kg/cm2 MOIST, SANDY, SILTY CLAY TOP 10 INCHES, GROUP (CL), MED. PLASTICITY, LIGHT TO DARK BROWN, SOFT, SOME SUBROUNDED PEBBLES, LOWER 5 INCHES IS SILTY GRAVEL WITH COBBLES. |
| 1003 | 24/16 | | | 15,17, 16,20 | | 12, 13 | CL-ML | 10 YR 3/4, MOIST, CLAYEY SILT @ TOP 4 INCHES, SOFT, MED. PLASTICITY, GROUP (CL-ML), 0.25 Kg/cm2, LOWER 12 INCHES IS SUBANGULAR L.S. COBBLES, DRY, NO ODOR, N6/6 |
| 1007 | 24/16 | | | 8,17, 18,22 | | 14, 15 | GP | SUBANGULAR L.S. COBBLES, DRY, 5 GY 6/1, POORLY GRADED WITH SUBANGULAR GRAVEL, GROUP SYMBOL (GP). |
| 1015 | 24/16 | | | 8,21, 24,42 | | 16, 17 | GP | AS ABOVE, WET. |
| 1023 | 24/16 | | | 9,27, 37,50 | | 18, 19 | CL-ML | SANDY-SILTY CLAY WITH SUBANGULAR PEBBLES, 10 YR 4/2, SATURATED TOP 8 INCHES, MED. TO HIGH PLASTICITY, SOFT, GROUP (CL-ML). LOWER 8 INCHES IS SUBANGULAR L.S. COBBLES, DRY, 5G Y 6/1 WITH SUBANGULAR GRAVEL. |
| | | | | | | | | 50 BLOWS FOR 3 INCHES. |

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P044 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | SHEET 2 OF 3 |
| | SAMPLING METHOD: N/A | | DRILLING |

| | | | | | START DATE | FINISH DATE |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | 3/10/97 | 3/10/97 |
| TIME | | | | | TIME | TIME |
| DATE | | | | | 0920 | 1330 |
| CASING DEPTH | | | | | | |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 1027 | 24/18 | | | 17,21, 44,25 | | 21 | ML-OH | SATURATED ANGULAR L.S. COBBLES, NO ODOR, 10 YR 3/2. SANDY-SILTY CLAY ZONE @ TOP 4 INCHES OF SAMPLE, GROUP SYMBOL (ML-OL), BOTTOM 14 INCHES ARE ANGULAR L.S. FRAGMENTS, N 6/6. |
| 1035 | 24/4 | | | 9,50 | | 22, 23 | GP | SATURATED 4 INCHES OF ANGULAR L.S. FRAGMENTS AND POORLY SORTED SAND AND GRAVEL. 50 BLOWS FOR 4 INCHES, GROUP (GP). |
| 1044 | 24/15 | | | 10,12, 17,18 | | 24, 25 | ML-OL | TOP 4 INCHES IS SILTY-SANDY CLAY, MED. TO HIGH PLASTICITY, SOFT, SATURATED, GROUP (ML-OL), TRACE SUBROUNDED PEBBLES, 10 YR 3/1, THE LOWER 11 INCHES IS A MIX OF ANGULAR L.S. FRAGMENTS AND SUBROUNDED S&G, POORLY SORTED. GROUP (GP-SP). |
| 1049 | 24/24 | | | 8,11, 12,14 | | 26, 27 | GP-SP | SILTY-SANDY GRAVEL @ TOP 12 INCHES, SATURATED & POORLY SORTED, BOTTOM 12" IS WELL SORTED AND STRATIFIED. |
| 1053 | 24/24 | | | 8,8, 10,12 | | 28, 29 | SW | SAND & GRAVEL SUBROUNDED & POORLY SORTED, TOP 6 INCHES, LOWER 18 INCHES IS WELL SORTED SAND, SATURATED, NO ODOR, SOME STRATIFICATION IN THE SAND ZONE, GROUP SYMBOL (SW). |
| 1059 | 24/24 | | | 7,3, 5,10 | | 30, 31 | SW | MODERATELY WELL SORTED SAND, SOME SUBROUNDED PEBBLES THROUGHOUT, SOME STRATIFICATION, SATURATED, NO ODOR, 2.5 Y 4/2, SOFT LOW PLASTICITY GROUP (SW). |
| 1110 | 24/24 | | | 12,18, 47,40 | | 32, 33 | SW | AS ABOVE. |
| 1117 | 24/24 | | | 10,21, 26,29 | | 34, 35 | SW | AS ABOVE WITH SUBROUNDED PEBBLES. |
| 1128 | 24/12 | | | 15,20, 46,21 | | 36, 37 | GP | SILTY GRAVEL, 2.5 Y 4/3, SATURATED POORLY SORTED @ TOP 6 INCHES, LOWER 6 INCHES IS ANGULAR L.S. FRAGMENTS (GP). |
| 1135 | 24/22 | | | 4,17, 22,24 | | 38, 39 | SW-SP | WELL SORTED SAND @ TOP 15 INCHES OF SAMPLE, SATURATED 2.5 Y 4/4, SOFT, NON-PLASTIC, GROUP (SW-SP). LOWER 7 INCHES IS POORLY SORTED S&G ZONE WITH ANGULAR L.S. COBBLES, SG 4/1. |

DRILLING CONTRACTOR BOWSER MORNER

MIKE BRADY - TERRAN CORPORATION

CHECKED BY RWM

DATE 3/19/97

E80

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P044 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | |
| | | | SHEET 3 OF 3 |
| | SAMPLING METHOD: N/A | | |

| | | | | | DRILLING START DATE | DRILLING FINISH DATE |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | | |
| TIME | | | | | 3/10/97 | 3/10/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 0920 | 1330 |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 1143 | 24/24 | | | 19,21, 24,25 | | 41 | SW-SP | TOP 12 INCHES OF SURFACE AS ABOVE, i.e. SAND, |
| | | | | | | | | LOWER 12 INCHES AS ABOVE, i.e. S&G & L.S. |
| | | | | | | | | FRAGMENTS, SATURATED. |
| | | | | | | 42 | | |
| 1304 | 24/24 | | | 12,23, 30,32 | | | SW-SP | 2.5 Y 4/4 TOP 10-12 INCHES AS ABOVE, i.e. |
| | | | | | | 43 | | SAND, LOWER 12-14 INCHES AS ABOVE, i.e. |
| | | | | | | | | S&G & TRACE L.S. FRAGMENTS, SATURATED. |
| | | | | | | 44 | | L.S. IS 5B 4/1. |
| 1312 | 24/12 | | | 13,20, 17,13 | | | SW-SP | L.S. ANGULAR FRAGMENTS 2.5 Y 4/4, NO ODOR, |
| | | | | | | 45 | | SATURATED SAND SLUFF @ TOP 3 INCHES OF SAMPLE. |
| | | | | | | | | WELL SORTED 2.5 Y 4/4. |
| | | | | | | 46 | | |
| 1321 | 24/24 | | | 9,12, 17,20 | | | GP-SP | MODERATELY SORTED SANDY GRAVEL, COARSEN DOWNWARD, |
| | | | | | | 47 | | TOP 4 INCHES WELL SORTED SAND (SLUFF ?), SUBANGULAR, |
| | | | | | | | | SATURATED, 2.5 Y 4/3, GROUP NAME (GP-SP), NO ODOR. |
| | | | | | | 48 | | |
| 1328 | 24/24 | | | 10,12, 13,16 | | | GP-SP | AS ABOVE |
| | | | | | | 49 | | |
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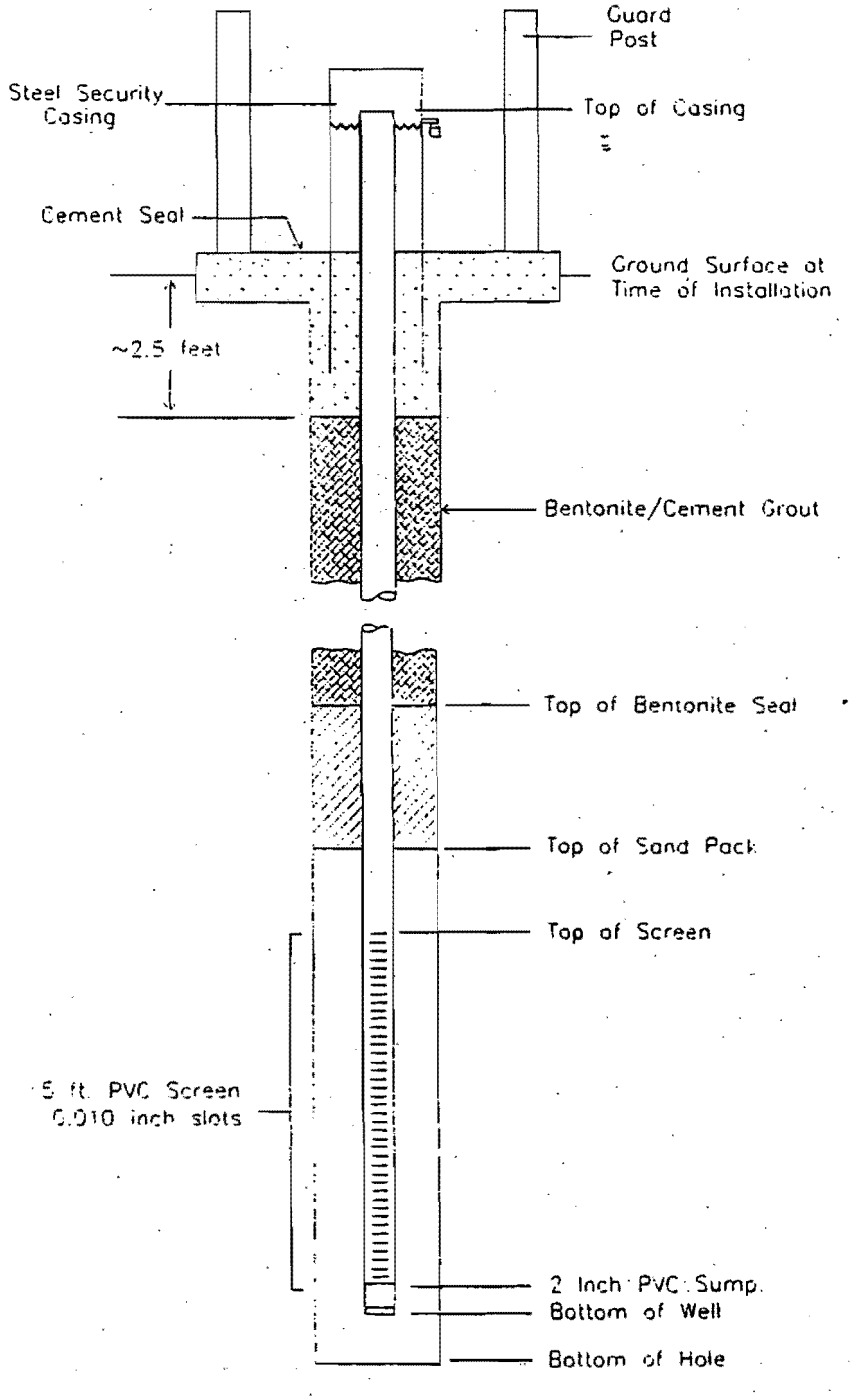
E81

# GROUNDWATER MONITORING WELL

| | | | |
|---|---|---|---|
| Well Diameter | 2 inch | Well Number | P045 |
| Borehole Diameter | 6 inch | Completion Date | 3/11/97 |
| Casing Material | PVC | Completed By | Terran / Bowser Morner |
| Screen Material | PVC Slotted | Drilling Method | Hollow Stem Auger |
| Project | EGG297 | Location | EG&G Mound |




| | Vertical | Elevation |
|---|---|---|
| Top of Casing | +2.34' | 704.19 |
| Ground Surface at Time of Installation | 0' | 701.85 |
| Top of Bentonite Seal | 31.00' | 670.85 |
| Top of Sand Pack | 38.50' | 663.35 |
| Top of Screen | 43.58' | 658.27 |
| Bottom of Well | 48.75' | 653.10 |
| Bottom of Hole | 49.5' | 652.35 |

E82

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P045 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | SHEET 1 OF 1 |
| | SAMPLING METHOD: N/A | | DRILLING |

| | | | | | START | FINISH |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | DATE | DATE |
| TIME | | | | | 3/11/97 | 3/11/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 0745 | 1330 |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS |
|---|---|---|---|---|---|---|---|
| | | | | | | 0 | |
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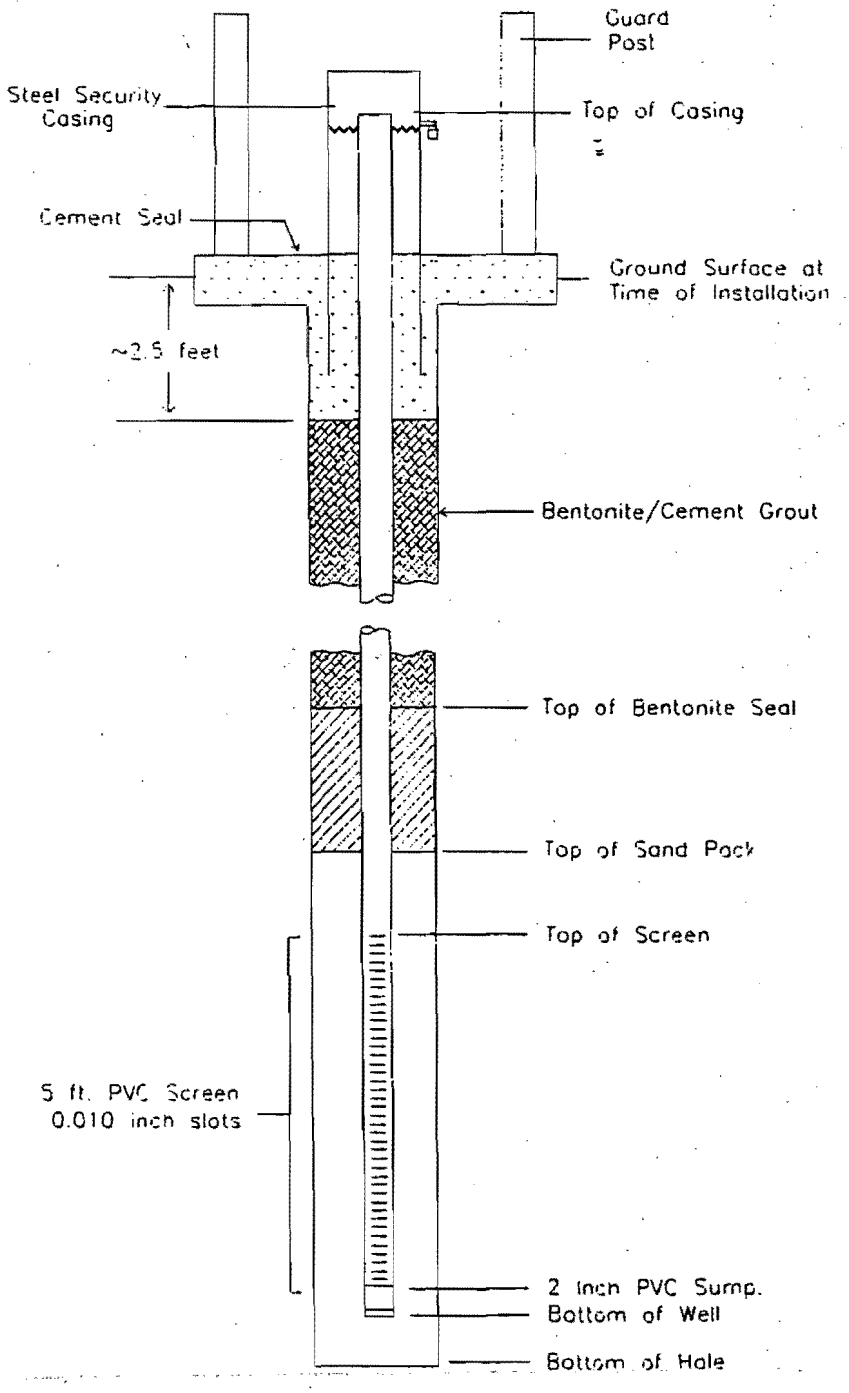
BORING P045 WAS NOT LOGGED

E83

# GROUNDWATER MONITORING WELL

| | | | |
|---|---|---|---|
| Well Diameter | 2 inch | Well Number | P046 |
| Borehole Diameter | 6 inch | Completion Date | 3/12/97 |
| Casing Material | PVC | Completed By | Terran / Bowser-Morner |
| Screen Material | PVC Slotted | Drilling Method | Hollow Stem Auger |
| Project | EGG297 | Location | EG&G Mound |




| | Vertical | Elevation |
|---|---|---|
| Top of Casing | +2.33' | 703.05 |
| Ground Surface at Time of Installation | 0' | 700.72 |
| Top of Bentonite Seal | 37.5' | 663.22 |
| Top of Sand Pack | 43.0' | 657.72 |
| Top of Screen | 46.79' | 653.93 |
| 2 inch PVC Sump. Bottom of Well | 51.96' | 648.76 |
| Bottom of Hole | 52.50' | 648.22 |

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P046 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | |
| | | | SHEET 1 OF 3 |
| | SAMPLING METHOD: N/A | | |

| | | | | | DRILLING | |
|---|---|---|---|---|---|---|
| | | | | | START | FINISH |
| WATER LEVEL | | | | | DATE | DATE |
| TIME | | | | | 3/11/97 | 3/11/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 1445 | 1722 |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 1445 | 24/10 | | | 4,4, 6,8 | | 1 | OL-OH | ORGANIC CLAY OR SILT (OL-OH) 90% CLAY, 2.5 Y 4/3, MOIST, SOFT, HOMOGENEOUS, NO ODOR, GRASS & PLANT ROOTS, TRACE SUBROUNDED PEBBLES, 0.75 Kg/cm2. |
| 1447 | 24/20 | | | 6,6, 8,12 | | 2 3 | OL | TOP 6 INCHES AS ABOVE, LOWER 14 INCHES ORGANIC CLAY OR SILT (OL), MED. PLASTICITY, 2.75 kg/cm2, 2.5 Y 3/1, DRY, NO ODOR. |
| 1450 | 24/22 | | | 4,6, 8,8 | | 4 5 | OH-SC | SANDY CLAY (OH-SC), DRY, 0.25 Kg/cm2, 10 YR 2/2, SOME SUBROUNDED PEBBLES, DRY TO MOIST, LOWER 20 INCHES IS 2.25 Kg/cm2, NO ODOR. |
| 1456 | 24/4 | | | 3,8, 12,13 | ▽ | 6 7 | OL | ORGANIC CLAY OR SILT (OL) MED. PLASTICITY, 0.5 kg/cm2, PLANT, 2.5 Y 4/2, SOME SUBROUNDED GRAVEL, MOIST TO DRY, NO ODORS, ANGULAR L.S. FRAGMENTS @ BOTTOM OF SAMPLE. |
| 1500 | 24/18 | | | 8,6, 8,14 | | 8 9 | CH | FAT CALY (CH), HIGH PLASTICITY, ANGULAR GRAVEL THROUGHOUT, 2.5 Y 4/2, SATURATED, SOFT, NO ODOR, SOME PLANT ROOTS, POORLY GRADED. GRAVEL @ THE LOWER 9 INCHES OF THE SAMPLE, 0.75 Kg/cm2. |
| 1505 | 24/12 | | | 4,6, 10,16 | | 10 11 | SG-GP GP | POORLY SORTED S&G (SG-GP) @ TOP 4 INCHES OF SAMPLE, 75% GRAVEL (GP) @ LOWER 8 INCHES OF SAMPLE, SATURATED NO ODOR. |
| 1509 | 24/24 | | | 6,7, 12,12 | | 12 13 | SG-GP SC-CL | POORLY SORTED S&G (SG-GP) @ TOP 5 INCHES OF SAMPLE MIXED WITH CLAYEY SAND (SC), GRAINS ARE SUBROUNDED, LOWER 19 INCHES IS A LEAN CLAY (CL). |
| 1515 | 24/18 | | | 6,12, 50 | | 14 15 | CL | MED. PLASTICITY, 5 Y 3/2, MOIST, TRACE SUBROUNDED PEBBLES, 4.5 Kg/cm2. LEAN CLAY, LOW TO MED. PLASTICITY, STIFF 3.5 Kg/cm2, 2.5 Y 3/2, SATURATED, NO ODOR, SOME SUBROUNDED PEBBLES. |
| 1521 | 24/12 | | | 5,22, 50 | | 16 17 | SC-GC | 50 BLOWS FOR 4 INCHES, CLAYEY S&G (SC-GC), SATURATED L.S. FRAGMENTS @ LOWER TWO INCHES OF SAMPLE, SOFT, MED. TO HIGH PLASTICITY, 2.5 Y 3/2, NO ODOR. |
| 1527 | 24/24 | | | 4,10, 26,30 | | 18 19 | GP | TOP EIGHT INCHES AS ABOVE, LOWER 16 INCHES IS POORLY GRADED GRAVEL (GP), SUBROUNDED MIXED WITH SOME ANGULAR L.S. FRAGMENTS, 2.5 Y 4/4, LOOSE, SATURATED, NO ODOR. |

E85

| LOCATION OF BORING | JOB NO. EGC297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P046 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | |
| | | | SHEET 2 OF 3 |
| | SAMPLING METHOD: N/A | | |
| | | | DRILLING |

| | | | | | START DATE | FINISH DATE |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | | |
| TIME | | | | | 3/11/97 | 3/11/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 1445 | 1722 |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 1534 | 24/18 | | | 10,28, 24,32 | | | CH | TOP EIGHT INCHES POORLY GRADED GRAVEL, AS ABOVE. |
| | | | | | | 21 | | 6 INCHES OF SANDY CLAY 0.25 Kg/cm2 |
| | | | | | | | GP-SP | (CH), 10 YR 3/2, SATURATED, SOFT, LOWER SANDY GRAVEL ZONE (GP-SP). |
| | | | | | | 22 | | 50/50 S&G SUBANGULAR TO SUBROUNDED, 10 YR 5/4. |
| 1540 | 24/8 | | | 6,24, 50 | | | CH | AS ABOVE, POORLY GRADED GRAVEL. |
| | | | | | | 23 | | |
| | | | | | | 24 | | |
| 1548 | 24/24 | | | 14,16, 17,18 | | | GP-SP | TOP 16 INCHES OF SAMPLE AS ABOVE, LOWER |
| | | | | | | 25 | | 8 INCHES MODERATELY WELL SORTED SAND, |
| | | | | | | | | POORLY GRADED, ROUNDED, SATURATED, NON-STRATIFIED, |
| | | | | | | | | NO-ODOR, 10 YR 4/4. |
| 1555 | 24/20 | | | 16,12, 16,24 | | 26 | GP-SP | POORLY SORTED S&G (GP-SP) SUBROUNDED GRAINS, |
| | | | | | | 27 | | SATUARTED, NO ODOR, ANGUALR L.S. COBBLES @ |
| | | | | | | | | LOWER 4 INCHES OF SAMPLE, 2.5 YR 4/3. |
| | | | | | | 28 | | |
| 1600 | 24/18 | | | 12,12, 18,16 | | | GP-SP | AS ABOVE, BUT W/ A LARGER PERCENTAGE (75%) OF |
| | | | | | | 29 | | MODERATELY WELL SORTED SAND, LOWER SIX INCHES IS SUBANGULAR L.S. |
| | | | | | | | CL | FRAGMENTS MIXED WITH LEAN CLAY (CL). |
| | | | | | | 30 | | |
| 1605 | 24/24 | | | 16,24, 17,23 | | | SP | TOP 14 INCHES CLAYEY SAND, POORLY GRADED (SP) |
| | | | | | | 31 | | 60% SAND, 40% CLAY, SUBROUNDED GRAINS, SATURATED, |
| | | | | | | | | 2.5Y 4/3, LOWER 10 INCHES S&G POORLY GRADED 70/30 % 2.5 Y 4/4. |
| | | | | | | 32 | | |
| 1614 | 24/20 | | | 6,18, 20,24 | | | GP-SP | AS ABOVE POORLY GRADED S&G 70% GRAVEL TO |
| | | | | | | 33 | | 30% SAND 2.5 Y 4/4 SATURATED. |
| | | | | | | 34 | | |
| 1621 | 24/12 | | | 6,12, 14,4 | | | GP-SP | AS ABOVE. |
| | | | | | | 35 | | |
| | | | | | | 36 | | |
| 1631 | 24/20 | | | 12,16, 18,36 | | | GP-SP | AS ABOVE, BUT LOWER 8 INCHES IS TILL. |
| | | | | | | 37 | | |
| | | | | | | 38 | | |
| 1636 | 24 | | | 12,12, 14,16 | | | GP-SP | AS ABOVE, POORLY GRADED S&G 70% GRAVEL TO 30% SAND 2.5 YR 4/4 |
| | | | | | | 39 | | SATURATED. |

BOWSER MORNER

DRILLING CONTRACTOR

B. BINDER - TERRAN CORPORATION

DATE 3/11/97 CHECKED BY RWM

E86

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. P046 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | SHEET 3 OF 3 |
| | SAMPLING METHOD: N/A | | DRILLING |

| | | | | | START DATE | FINISH DATE |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | | |
| TIME | | | | | 3/11/97 | 3/11/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 1445 | 1722 |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 1645 | 24/24 | | | 10,13, 13,14 | | 40 | GP-SP | AS ABOVE |
| | | | | | | 41 | | |
| 1657 | 24/24 | | | 10,16, 16,26 | | 42 | GP-SP | AS ABOVE. COARSENING UPWARD. 90% GRAVEL. |
| | | | | | | 43 | | |
| 1705 | 24/24 | | | 16,18, 18,18 | | 44 | GP-SP | AS ABOVE. FINING UPWARD S&G. |
| | | | | | | 45 | | |
| 1714 | 24/24 | | | 11,16, 26,24 | | 46 | GP-SP | AS ABOVE. |
| | | | | | | 47 | | |
| 1722 | 24/15 | | | 12,18, 32,24 | | 48 | GP-SP | AS ABOVE. |
| | | | | | | 49 | | |
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E87

# GEOLOGIC LOG

## MOUND PLANT

Project Manager: John S. Price



| | | | |
|---|---|---|---|
| Drilling Company | Bowser Morner | Borehole/Well Id | 0305 |
| Drilling Method | Cable Tool | STATE PLANE COORDINATES | |
| Drilling Fluid | None | North (ft) | 596493.51 |
| Date Started | 8/21/89 | East (ft) | 1495084.47 |
| Date Completed | 8/22/89 | Ground Surface Elev. (ft) | 710.00 |
| Logged By | Tom Tharp | Top of Casing Elev. (ft) | 711.76 |
| Checked By | Jim Brinkman | Total Depth (ft) | 40.1 |

Comments:

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | CASING: Stainless steel, 4". | | | CL | Gray clay, trace silt. |
| 5 | SS | LI | 0001 | BACKFILL: Cement and bentonite grout. | | | CL | Gray clay, trace silt. |
| 10 | SS | LI | 0002 | | | | CL | Brown clay, trace silt. |
| 15 | SS | LI | 0003 | | | | SM | Silty sand, well graded. |
| 20 | | | | | | | | |

GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 34.50 | 17:25 | 08/21/89 |
| ▼ | 30.28 | 11:56 | 09/20/90 |

E88

WESTON

| GEOLOGIC LOG | MOUND PLANT | Project Manager John B. Price | PAGE: 1 of 3 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Company | Bowser Morner | Borehole/Well Id | 0317 |
| Drilling Method | Cable Tool | STATE PLANE COORDINATES | |
| Drilling Fluid | None | North (ft) | 596206.65 |
| Date Started | 8/16/89 | East (ft) | 1495023.69 |
| Date Completed | 8/18/89 | Ground Surface Elev. (ft) | 703.80 |
| Logged By | Tom Tharp | Top of Casing Elev. (ft) | 705.64 |
| Checked By | Jim Brinkman | Total Depth (ft) | 63.5 |

Comments:

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS For Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | BACKFILL: Type 1 Portland cement, 5% bentonite slurry. | | | GM | Silty, sandy gravel, gravel up to 1 inch in diameter. |
| 5 | SS | LI | 0001 | CASING: Stainless steel, 4". | | | GC-GM | Sandy, silty, clayey gravel, gravel consists of limestone fragments up to 1 inch in diameter. |
| 10 | SS | LI | 0002 | | | | CL | Gray to brown gravelly clay. |
| 15 | SS | LI | 0003 | | | | GC | Sandy, clayey gravel, gravel consists of limestone fragments up to 1.5 inches in diameter. |
| 20 | | | | | | | | |

GROUNDWATER

| DEPTH | HOUR | DATE |
|---|---|---|
| 28.00 | 18:35 | 08/16/89 |
| 24.21 | 12:03 | 09/20/90 |

E89

WESTON

# GEOLOGIC LOG

**MOUND PLANT**

Project Manager: John B. Price



Borehole/Well Id 0317

| Depth | Sample T | Sample A | Sample ID | Well Materials | Well Con | Lith | USCS or Rock Type | Lithologic Description |
|---|---|---|---|---|---|---|---|---|
| | SS | LI | 0008 | | | | GM | Brown sand, some pebbles to .3 feet in diameter, < 10% silt. |
| 50 | | | | | | | | |
| | SS | LI | 0009 | | | | GM | Silty sand, fine to coarse grained, some pebbles. |
| 55 | SS | LI | 0010 | | | | | |
| | | | | SCREEN: Stainless steel, 4", with .01" wire wrap slot. | | | SC-SM-SP | Clayey, silty sand, fine grained, some limestone gravel. |
| 60 | | | | FILTER PACK: #5 quartz torpedo sand. | | | | |
| | SS | LI | 0011 | | | | LS | Gray crystalline limestone (bedrock). |
| | SS | LI | 0012 | | | | | |
| 65 | | | | | | | | Total Depth = 63.5 feet. |
| 70 | | | | | | | | |

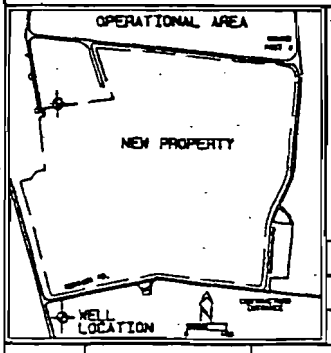
GROUNDWATER

| | DEPTH | HOUR | DATE |
|---|---|---|---|
| ▽ | 28.00 | 18:35 | 08/16/89 |
| ▼ | 24.21 | 12:03 | 09/20/90 |

E90

WESTON

| MOUND / NEW PROPERTY | OU5 NEW PROPERTY EXTENDED PHASE FIELD INVESTIGATION | WELL LOG W402 | Page 1 of 1 |
|---|---|---|---|



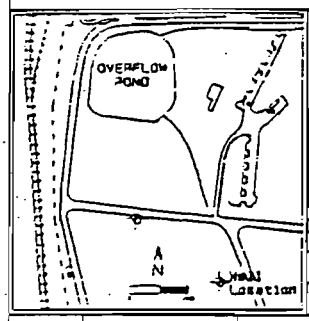

Area of Concern: New Property
Drilling Company: Bowser-Morner
Drilling Method: Cable Tool
Drilling Fluid: Water
Drilling Completed: 8/30/94
Well Installed: 8/30/94, 7/18/94
Logged By: Susan Abston
Total Depth (ft BGS): 32.6

COORDINATES
State Plane; Northing: 595983.0000
Easting: 1495287.6500
Mound Plant; South: 3871.0002
West: 4850.2214
Ground Surface Elevation (ft MSL): 704.56
Top of Casing Elevation (ft MSL): 706.08

| GROUNDWATER | DATE | DEPTH (ft BGS) | COMMENTS |
|---|---|---|---|
| ▼ | 8/30/94 | 22.09 | Encountered during drilling. |
| ▽ | 7/20/94 | 21.87 | Sample collected. |

| DEPTH (ft BGS) | SAMPLES Water | SAMPLES Soil | WELL CONSTRUCTION | LITHOLOGY | USCS | DESCRIPTION / COMMENTS |
|---|---|---|---|---|---|---|
| 0 | | B40201 | steel protective casing with locking cap (2.30 ft AGS); concrete pad | | CL | 0–5.5 CLAY, some silt, trace gravel; 7.5YR4/2 brown. |
| 4 | | | | | | |
| | | | cement bentonite grout | | GC | F.I.O.=4.0ppm<br>5.5–12.0 CLAY, GRAVEL and SAND; subangular to rounded granules and pebbles; 7.5YR5/3 brown. |
| 8 | | | 2" stainless steel riser | | | |
| 12 | | | | | SW | 12.0–23.5 SAND and GRAVEL; poorly sorted. |
| | | | (15.30 ft BGS); 3/8" bentonite pellet seal; (19.13 ft BGS) | | | |
| 16 | | | | | | |
| 20 | | | (20.74 ft BGS) | | | |
| ▽ ▼ | | | | | | |
| 24 | | B40202 | 2", 0.01 slotted stainless steel screen | | SP | 23.5–26.8 SAND; fine; well sorted; saturated; 5YR4/4 brown. |
| | W40201 W40211 | | | | SM | 26.8–27.0 SAND, some silt and clay; fine sand; well sorted; 5YR4/1 brownish grey. |
| 28 | | | Global #5 sand pack | | GW | 27.0–32.8 SAND and GRAVEL; fine to coarse sand; poorly sorted. |
| | | | (31.01 ft BGS); stainless steel cap (32.80 ft BGS); 8" borehole diameter | | | |
| 32 | | | | | | |

| MOUND / NON-AOC | OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION | WELL LOG W410 | Page 1 of 2 |
|---|---|---|---|




Area of Concern: Non-AOC
Drilling Company: Bowser-Morner
Drilling Method: Cable Tool
Drilling Fluid: Water
Drilling Completed: 7/11/94
Well Installed: 7/12/94, 7/13/94
Logged By: Susan Abston
Total Depth (ft BGS): 41.2

| COORDINATES | |
|---|---|
| State Plane: Northing: | 598520.9127 |
| Easting: | 1495228.1001 |
| Mound Plant: South: | 3145.7534 |
| West: | 4857.5850 |
| Ground Surface Elevation (ft MSL): | 713.25 |
| Top of Casing Elevation (ft MSL): | 715.50 |

| GROUNDWATER | DATE | DEPTH (ft BGS) | COMMENTS |
|---|---|---|---|
| ▼ | 7/11/94 | 30.95 | Encountered during drilling. |
| ▽ | 7/21/94 | 32.10 | Sample collected. |

| DEPTH (ft BGS) | SAMPLES: Water | SAMPLES: Soil | WELL CONSTRUCTION | LITHOLOGY | USCS | DESCRIPTION / COMMENTS |
|---|---|---|---|---|---|---|
| 0 | | 841001 | steel protective casing with locking cap (2.25 ft AGS); concrete pad | | CL | 0-5.0 CLAY and SILT, trace coarse sand and gravel; dry; 7.5YR4/2 brown. |
| 4 | | | | | | |
| 8 | | | cement bentonite grout | | SC | 5.0-14.0 CLAY, SILT, and SAND, trace gravel; dry; 7.5YR5/3 brown. |
| 12 | | | 2" stainless steel riser | | | |
| 16 | | | | | SP | 14.0-18.0 SAND, some gravel, trace silt; coarse sand; dry. |
| 20 | | | (21.48 ft BGS); 3/8" bentonite pellet seal | | SW | 18.0-28.0 SAND, some gravel; fine to coarse sand; dry. |
| 24 | | | | | | |

Figure 2.10. Well Log of Monitoring Well W410
(Page 1 of 2)

**MOODY'S**
of Dayton, Inc.
P.O. Drawer 509
4359 Infirmary Road
Miamisburg, Ohio 45343-0509
513-859-4482

# PIEZOMETER/MONITORING WELL LOG

MER: Mound JOB NO. 46199 DATE 6-13 BORING NO. 417

IONS: SURFACE TOP OF PIPE

ELL: MW
4"
SS

N TYPE, SIZE & SLOT: 020 slot
" x 10' 4"

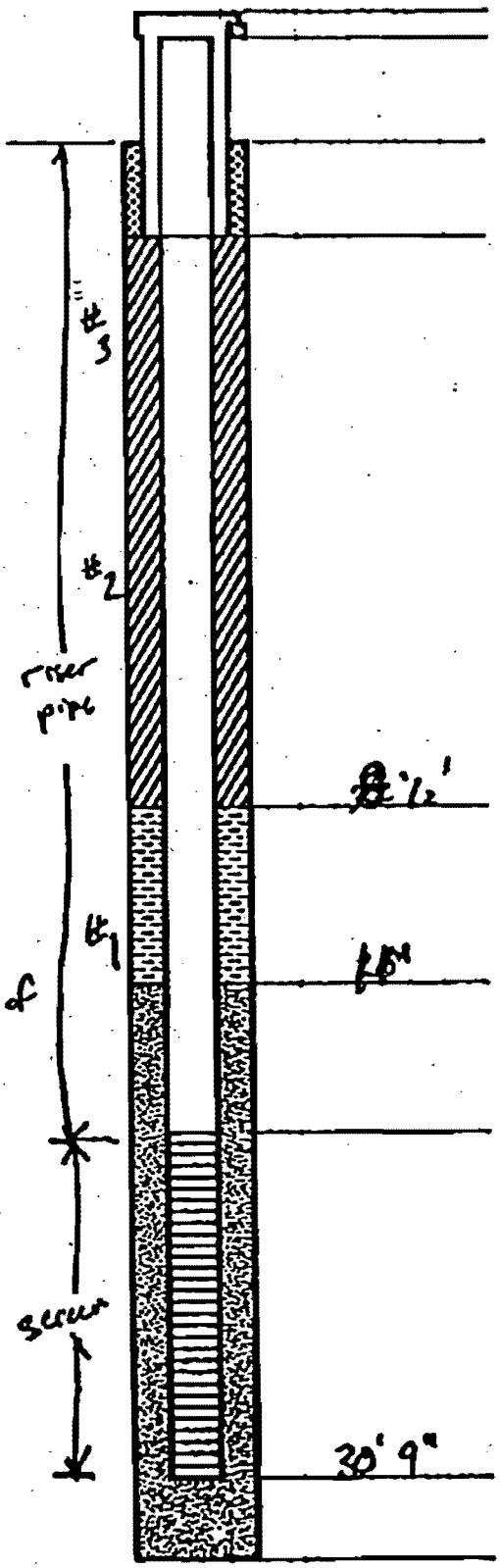
ATION TIME & REMARKS: plug = 5"
Bers = #1 10'
#2 10'
#3 4' 11"

PMENT TIME & REMARKS: ~~plug 5"~~

WATER LEVELS

| DATE | DEPTH |
|---|---|
| 6-19-96 | 22' 3½" from top of well |
| | |
| | |

ENTS: used
bags of sand = 6
buckets of pellets = 2
bags of bentonite = ½
bags of cement = 6
ality setting seal experienced while setting
sand:




Sand, Gravel Pack
Bentonite
Cement/Bentonite Grout
Concrete

E93

BORING NO.: 417 LOCATION: OD Unit-1

DATE STARTED: 6-12-96 DATE FINISHED: 6-13-96 JOB NO.: 96F99

WEATHER: DRILLER: JD CREW: Mike

of Dayton, Inc.

P.O. Drawer 509
Miamisburg, Ohio 45343-0509
513-859-4482

# TEST BORING LOG

| DEPTH | COLOR | SOIL DESCRIPTION AND REMARKS | | MOISTURE | SAMPLE NO | SAMPLE TYPE | DEPTH | BLOW COUNTS | RECOVERY |
|---|---|---|---|---|---|---|---|---|---|
| 0-5 | Gray | Gravel & Cobbles | Loose | Dry | 1 | A | 5-7 | 26, 19, 10, 14 | 5" |
| 5-10 | Brown | Clay (packed) & gravel | Tight | Dry | 2 | A | 10-12 | 10 8, 10 9 | 24" |
| 10-15 | Brown/Gray | Clay with Cobbles | Tight | Dry | 3 | A | 15-17 | 10, 10, 9, 9 | 14" |
| 15-20 | Gray | Rock | | Dry | 4 | A | ~~20-22~~ | ~~10, 15, 14, 14~~ | 1" |
| 20-25 | Brown | Clay sand & gravel EPA Requested | Tight | Wet | 5 | A | 22-24 | 10, 34, 48, ~~37~~ | No office thru 8" |
| ~~20-25~~ 30-32 | Brown | Gravel clay & Cobbles | loose | Wet | 6 | A | ~~30-32~~ | 35, 14, 34, 36 | 16" |

METHOD OF DRILLING:

AUGER / SIZE 6¼

ROTARY SIZE(S)

AIR MUD WATER

WATER LEVELS 22' 3½' P. top of well

INITIAL

COMPLETION

24 HR

TYPE AND SIZE SAMPLER:

A. SPLIT SPOON: 2" / 3"

B. SHELBY TUBE ( )

C. NX CORE

MACHINE CME 75

HAMMER: 140 LB / 300 LB

JUN-25-96 TUE 11:01 MOODY'S OF DAYTON P.08

**MOODY'S**
of Dayton, Inc.
P.O. Drawer 509
4359 Infirmary Road
Miamisburg, Ohio 45343-0509
513-859-4482

# PIEZOMETER/MONITORING WELL LOG

MER: Mowrel JOB NO. 46199 DATE 6-17-96 BORING NO. 418

IONS: SURFACE TOP OF PIPE

ELL: MW
4"
SS

N TYPE, SIZE & SLOT: 020
X 10"

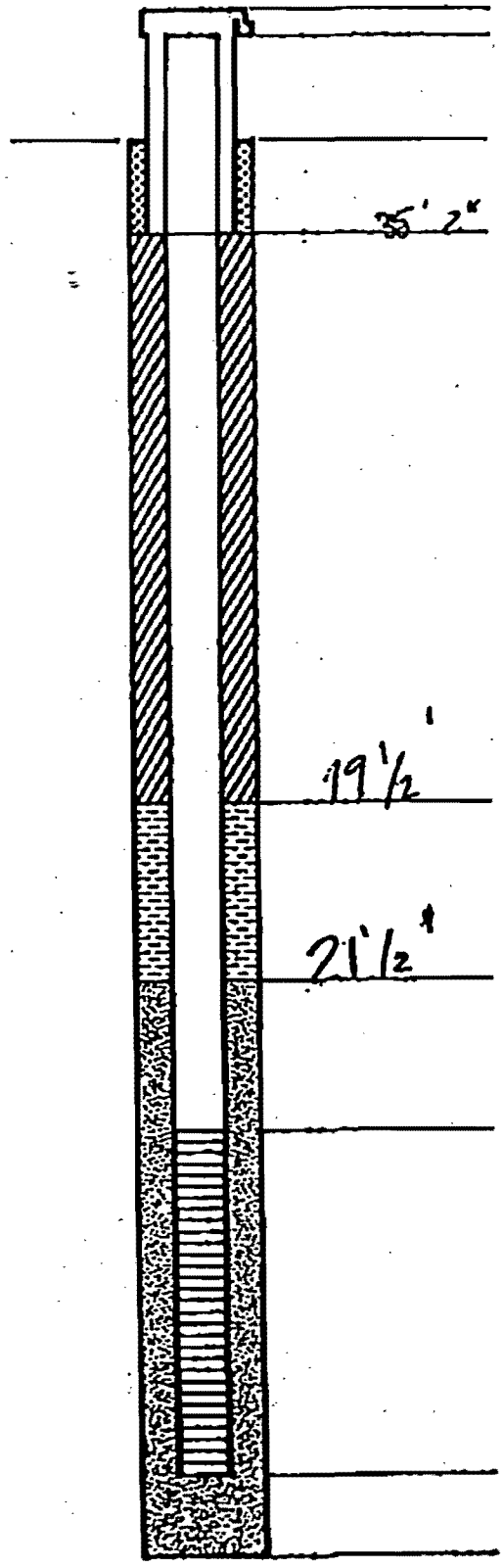
LATION TIME & REMARKS: plug = 5"
ers: #1 10' 1/2"
#2 10' 1"
#3 10'

PMENT TIME & REMARKS:

WATER LEVELS

| DATE | DEPTH |
|---|---|
| 19-96 | 27' from top of well |
| | |
| | |

ENTS: used
gs of sand = 9
ckets of pellets = 2
gs of bentonite = 1/2
gs of cement = 8




E95

Sand, Gravel Pack
Bentonite
Cement/Bentonite Grout
Concrete

BORING NO.: 118 LOCATION: OP Unit 1

DATE STARTED: 6-13-96 DATE FINISHED: 6-17-96 JOB NO.: 46199

WEATHER: Sunny & Warm DRILLER: JD CREW: Mike

P.O. Drawer 509
Miamisburg, Ohio 45343-0509
513-859-4482

# TEST BORING LOG

| DEPTH | COLOR | SOIL DESCRIPTION AND REMARKS | MOISTURE | SAMPLE NO | SAMPLE TYPE | DEPTH | BLOW COUNTS | RECOVERY |
|---|---|---|---|---|---|---|---|---|
| 0-5 | Brown/Gray | Clay & Gravel Tight | Dry | 1 | A | 5-7 | 12, 14, 14, 12 | 9" |
| 5-10 | Brown | Hard packed clay Lots of Rock Tight | Dry | 2 | A | 10-12 | 11, 14, 16, 18 | 15" |
| 10-15 | Gray/Brown | Cobbles, Gravel Sand & Clay Tight | Dry | 3 | A | 15-17 | 11, 16, 18, 17 | 24" |
| 15-20 | | No Recovery - rock | | 4 | A | 20-22 | 50/1" | None |
| 20-25 | Brown | Clay with gravel, coarse sand & cobbles Tight | Wet | 4 | A | 25-27 | 14, 16, 18, 20 | 22" |
| 25-30 | Brown | Sand & gravel | Wet | 5 | A | 30-32 | 11, 12, 11, 12 | 24" |
| 30-35 | Gray/Brown | Bedrock sand & clay | Wet | 6 | A | 35-37 | 50/1/2" | 1/2" top of shoe |
| | | Auger refusal @ ~ 34-35ft | | | | | | |

METHOD OF DRILLING:
AUGER ✓ SIZE 6 1/4
ROTARY SIZE(S)
AIR MUD WATER

WATER LEVELS 27' ft. top of well
INITIAL
COMPLETION
24 HR

TYPE AND SIZE SAMPLER:
A. SPLIT SPOON: 2" ✓ 3"
B. SHELBY TUBE ( )
C. NX-CORE

MACHINE CME 75
HAMMER: 140 LB ✓ 300 LB

Page ___ of ___

INS-96 TUE 11:03 MOODY'S OF DAYTON P.10

MOODY'S
of Dayton, Inc.
P.O. Drawer 509
4359 Infirmary Road
Miamisburg, Ohio 45343-0509
513-859-4482

# PIEZOMETER/MONITORING WELL LOG

ER: Mound JOB NO. 46199 DATE 6-20-86 BORING NO. 419

419 A

TIONS: SURFACE TOP OF PIPE

WELL: MW

4"

SS

EN TYPE, SIZE & SLOT:

4" x 10'

LLATION TIME & REMARKS: plug = 5"

risers = #1 10' 1/2"

#2 10' 1/2"

#3 10' 1/2"

#4 10' 1/2

LOPMENT TIME & REMARKS:

WATER LEVELS

| DATE | DEPTH |
|---|---|
| | 38' 7½" |
| | |
| | |
| | |

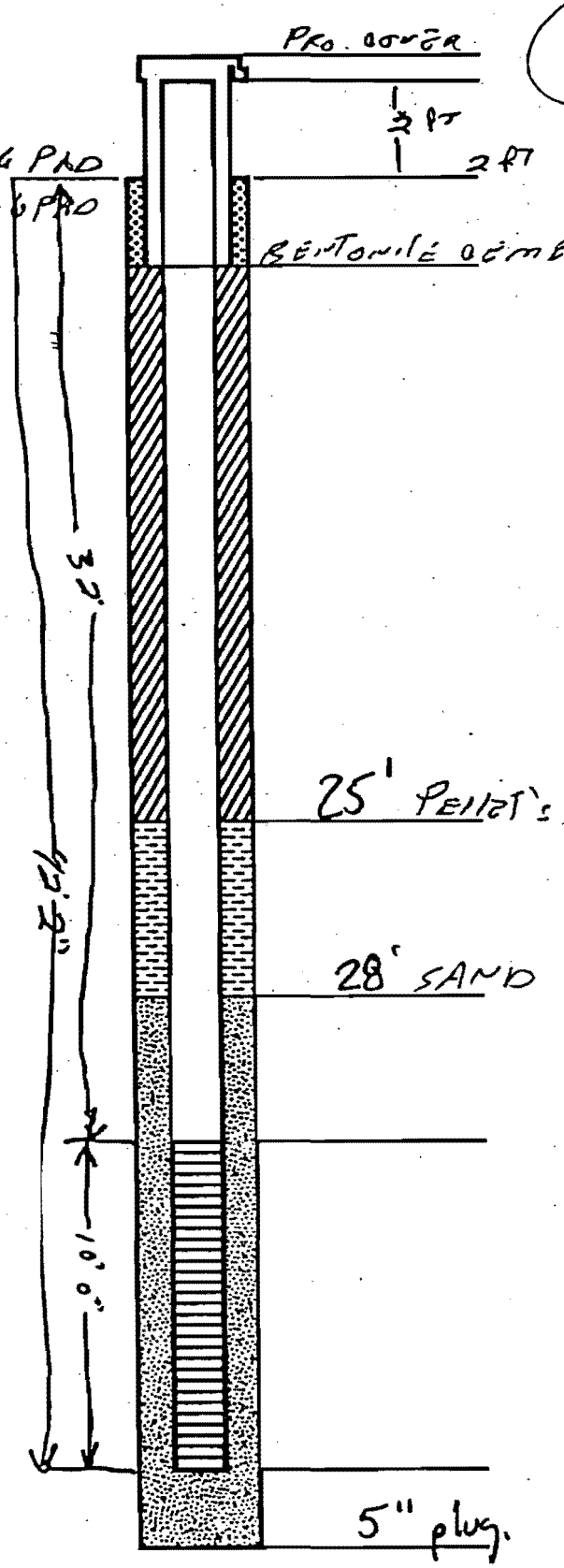
MENTS: used

bags of sand = 8

buckets of chips = 2

bags of bentonite = 1

bags of cement = 9




E97

Sand, Gravel Pack
Bentonite
Cement/Bentonite Grout
Concrete

CONSULTANT: [illegible] OWNER: [illegible]

BORING NO.: 419 LOCATION: Mound OP Unit-1

DATE STARTED: 6-19-96 DATE FINISHED: JOB NO.: 46199

WEATHER: DRILLER: JD CREW: Mike

of Dayton, Inc.
P.O. Drawer 509
Miamisburg, Ohio 45343-0509
513-859-4482

# TEST BORING LOG

| DEPTH | COLOR | SOIL DESCRIPTION AND REMARKS | | MOISTURE | SAMPLE NO | SAMPLE TYPE | DEPTH | BLOW COUNTS | RECOVERY |
|---|---|---|---|---|---|---|---|---|---|
| 0-5 | Brown | Hard packed clay | Tight | Dry | 1 | A | 5-7 | 8, 12, 16, 18 | 12" |
| 5-10 | Brown | Hard packed clay few stones | Tight | Dry | 2 | A | 10-12 | 19, 22, 14, 16 | 16" |
| 10-15 | Gray | Gravel & course sand | Tight | Dry | 3 | A | 15-17 | 12, 22, 24, 23 | 13" |
| 15-20 | Brown | Gravel sand & clay | Loose | Dry | 4 | A | 20-22 | 14, 23, 23, 17 | 15" |
| 20-25 | Gray | Sand & gravel | Tight | Dry | 5 | A | 25-27 | 22, 37, 42, 57 | 13" |
| 25-30 | Gray | Sand & gravel | Loose | Dry | 6 | A | 30-32 | 10, 12, 14, 18 | 9" |
| 30-35 | Brown | Clay sand & gravel | Loose | Wet | 7 | A | 35-37 | 10, 10, 10, 10 | 12" |
| 35-40 | Brown | Course sand & gravel & Bobrock | Loose | Wet | 8 | A | 40-42 | 10, 10, 21, 100 | 18" |
| | | Auger refusal @ ~ 42' | | | | | | | |

METHOD OF DRILLING:

AUGER ✓ SIZE 6 1/4"

ROTARY SIZE(S)

AIR MUD WATER

WATER LEVELS 35' 11'

INITIAL

COMPLETION

24 HR

TYPE AND SIZE SAMPLER:

A. SPLIT SPOON: 2" ✓ 3"

B. SHELBY TUBE ( )

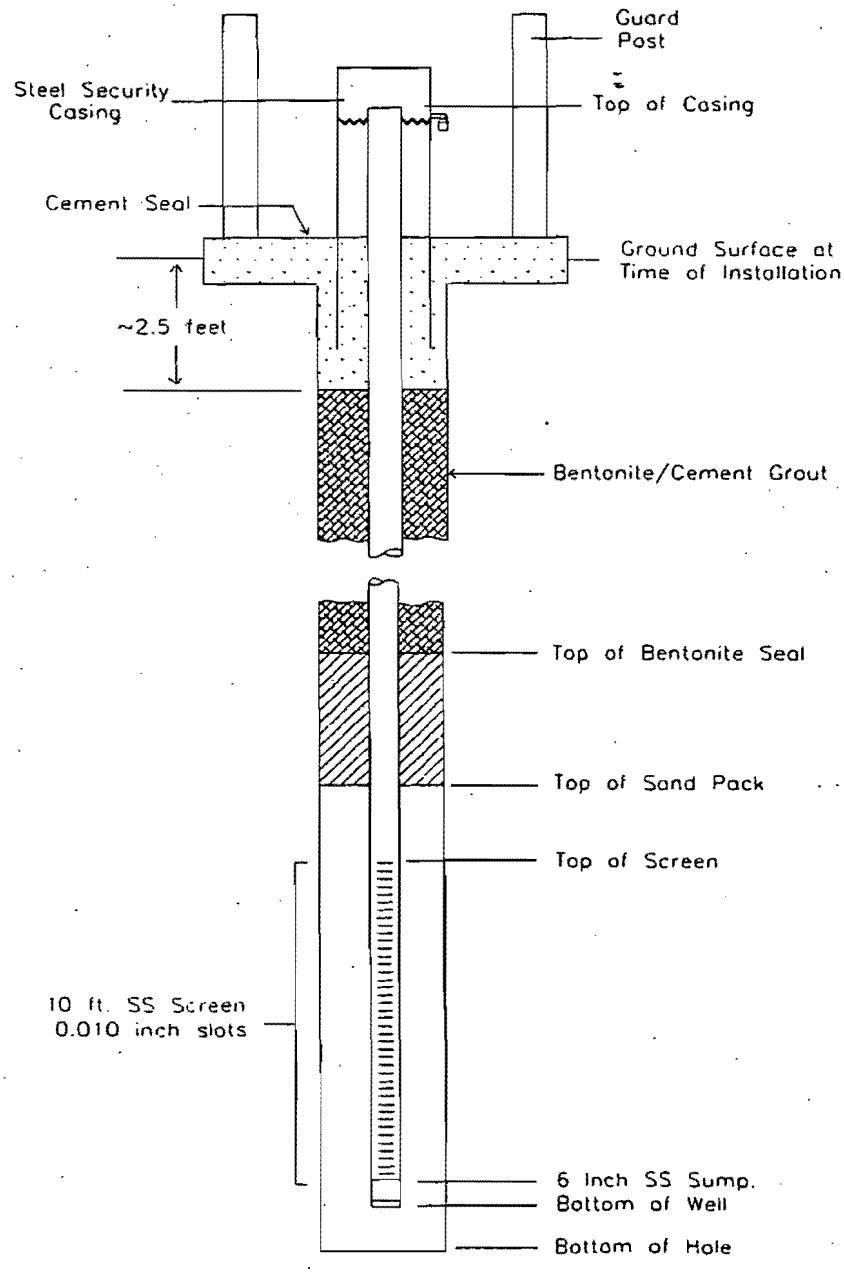
C. NX CORE

MACHINE CME 75

HAMMER: 140 LB ✓ 300 LB

# GROUNDWATER MONITORING WELL

| | | | |
|---|---|---|---|
| Well Diameter | 4 inch | Well Number | 0424 |
| Borehole Diameter | 10 inch | Completion Date | 3/13/97 |
| Casing Material | 304 Stainless Steel | Completed By | Terran / Bowser Morner |
| Screen Material | 304 Wirewrap Stainless Steel | Drilling Method | Hollow Stem Auger |
| Project | EGG297 | Location | EG&G Mound |




| | Vertical | Elevation |
|---|---|---|
| Top of Casing | +2.26' | 704.49 |
| Ground Surface at Time of Installation | 0' | 702.23 |
| Top of Bentonite Seal | 16.0' | 686.23 |
| Top of Sand Pack | 18.0' | 684.23 |
| Top of Screen | 22.77' | 679.46 |
| 6 Inch SS Sump. / Bottom of Well | 33.27' | 668.96 |
| Bottom of Hole | 45.0' | 657.23 |

E99

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. 0424 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | |
| | | | SHEET 1 OF 3 |
| | SAMPLING METHOD: N/A | | |

| | | | | | DRILLING START | DRILLING FINISH |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | DATE | DATE |
| TIME | | | | | 3/13/97 | 3/13/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 0800 | 1115 |

DATUM ELEVATION

DRILLING CONTRACTOR BOWSER MORNER

CHECKED BY RWM

3/13/97

SURFACE CONDITIONS: TOP SOIL

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 0805 | 24/12 | | | 4,5, 6,7 | | 1 | OL-OH | 5 YR 3/1, 2.25 Kg/cm2, ORGANIC CLAY OR SILT (OL-OH), MED. TO HIGH PLASTICITY, DRY, STIFF, TRACE SUBROUNDED PEBBLES, NO ODOR, SUBROUNDED PEBBLES @ TOP 6 INCHES OF SAMPLE, DARK REDDISH BROWN. |
| | | | | | | 2 | | |
| 0807 | 24/12 | | | 5,5, 6,6 | | 3 | OL-OH | AS ABOVE, ORGANIC CLAY OR SILT (OL-OH). |
| | | | | | | 4 | | |
| 0811 | 24/6 | | | 5,5, 7,7 | | 5 | CL-SM | 2.5 YR 4/2 SOFT MOIST, SILTY-SANDY CLAY (CL-SM). 1.0 Kg/cm2, MED. PLASTICITY, TRACE SUBROUNDED PEBBLES, NO ODOR. |
| | | | | | | 6 | | |
| 0815 | 24/20 | | | 11,18, 19,26 | | 7 | OL-OH | 2.5 YR 4/2, 0.75 Kg/cm2, MOIST ORGANIC CLAY OR SILT, (OL-OH) @ TOP SIX INCHES, SOFT TRACE SUBROUNDED PEBBLES, LOWER 14 INCHES IS POORLY GRADED |
| | | | | | | 8 | GP-SP | GRAVEL & SAND (GP-SP), MIXED WITH (OL-OH), AS ABOVE. |
| 0837 | 24/15 | | | 12,21, 21,26 | | 9 | GP-SP | 2.5 Y 4/4 MATRIX SUPPORTED, POORLY GRADED SAND AND GRAVEL (GP-SP), SUBANGULAR TO SUBROUNDED PEBBLES, 70% SAND TO 30% PEBBLES, TILL. |
| | | | | | | 10 | | |
| 0842 | 24/12 | | | 12,15, 20,29 | | 11 | GP-SP | AS ABOVE. |
| | | | | | | 12 | | |
| 0847 | 24/18 | | | 11,12, 7,10 | | 13 | CH | 2.5 Y 3/2, 2.0 Kg/cm2, MED TO HIGH PLASTICITY, TRACE SUBROUNDED PEBBLES, FAT CLAY (CH), MOIST, NO ODOR, STIFF, DARK BROWN, 2 INCHES OF SLUFF @ TOP. |
| | | | | | | 14 | | |
| 0856 | 24/10 | | | 4,9, 12,16 | | 15 | CH | AS ABOVE. |
| | | | | | | 16 | | |
| 0900 | 24/20 | | | 6,10, 11,13 | ▽ | 17 | CH | AS ABOVE, SOME SUBANGULAR PEBBLES, MOIST, 4.25 Kg/cm2. |
| | | | | | | 18 | | |
| 0905 | 24/24 | | | 6,10, 11,12 | | 19 | CH | AS ABOVE, 1.75 Kg/cm2, MOIST TO WET, TOP 2 INCHES OF SAMPLE, SANDY, CLAY AND SUBROUNDED PEBBLES, 70% SAND & 30% CLAY/PEBBLES. |

E100

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. 0424 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | SHEET 2 OF 3 |
| | SAMPLING METHOD: N/A | | DRILLING START DATE 3/13/97 FINISH DATE 3/13/97 |
| | WATER LEVEL / TIME / DATE / CASING DEPTH | | TIME 0800 TIME 1115 |

DATUM ELEVATION

SURFACE CONDITIONS: TOP SOIL

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 0913 | 24/20 | | | 11,12, 20,25 | | 21 | SM-SC | 5 Y 4/2 SANDY-SILTY CLAY, 2.5 Kg/cm2, GROUP (SM-SC), MED. TO HIGH PLASTICITY, MED STIFF, WET, DARK GRAY-BROWN, NO ODOR, TRACE SUBANGULAR PEBBLES. |
| 0925 | 24/18 | | | 16,17, 19,20 | | 22, 23 | GP-SP | POORLY GRADED S&G (GP-SP), SATURATED, 2.5Y 5/4, AND SUBANGULAR L.S. FRAGMENTS THROUGHOUT THE TOP 15 INCHES. LOWER 3 INCHES IS SANDY CLAY, MED. STIFF, MED. PLASTICITY, 80% SAND. |
| 0931 | 24/24 | | | 10,13, 20,27 | | 24, 25 | SW CL | WELL SORTED SAND & SOME SUBROUNDED GRAVEL @ TOP (SW) 18 INCHES OF SAMPLE, SATURATED, SOFT, LOWER 6 INCHES IS STIFF, MED. PLASTICITY, LEAN CLAY (CL), 5Y 4/1, >4.5 Kg/cm2. |
| 0940 | 24/24 | | | 14,26, 29,35 | | 26, 27 | | TOP 8 INCHES IS SANDY CLAY, MED. STIFF, LOW TO MED. PLASTICITY, WET, 2.5 Y 4/4, LOWER 16 INCHES IS STIFF, MED. PLASTICITY, LEAN CLAY (CL), 5 Y 4/1, >4.5 kg/cm2, NO ODOR |
| 0945 | 24/18 | | | 20,22, 23,25 | | 28, 29 | GP-SP | POORLY SORTED S&G & L.S. CHIPS, GROUP (GP-SP), SATURATED, NO ODOR, 50% SAND & 50% GRAVEL. |
| 0953 | 24/18 | | | 17,18, 16,14 | | 30, 31 | GP-SP | AS ABOVE. |
| 1010 | 24/12 | | | 21,24, 26,27 | | 32, 33 | GP-SP | AS ABOVE, SATURATED. |
| 1027 | 24/24 | | | 35,29 25,26 | | 34, 35 | GP-SP | AS ABOVE 70% GRAVEL TO 30% SAND. |
| 1035 | 24/12 | | | 23,26, 28,50 | | 36, 37 | CL-SC | 50 BLOWS OVER 4 INCHES, AS ABOVE, BUT TOP 6 INCHES IS SILTY SANDY CLAY (CL-SC), 2.5Y 3/3, SATURATED, STIFF, NO ODOR, >4.5 Kg/cm2. |
| 1040 | 24/24 | | | 27,31 50 | | 38, 39 | GP-SP CL-SC | 50 BLOWS FOR 5 INCHES, SATURATED S&G (GP-SP), 70% GRAVEL TO 30% SAND, 2.5Y 5/4, TOP 6 INCHES IS SILTY SANDY CLAY (CL-SC), 2.5 Y 3/3, STIFF, SATURATED, >4.5 Kg/cm2. |

CHECKED BY RWM

DATE 3/13/97

E101

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. 0424 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | |
| | | | SHEET 3 OF 3 |
| | SAMPLING METHOD: N/A | | |

| | | | | | DRILLING START DATE | DRILLING FINISH DATE |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | | |
| TIME | | | | | 3/13/97 | 3/13/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 0800 | 1115 |

DATUM ELEVATION

SURFACE CONDITIONS: TOP SOIL

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS | |
|---|---|---|---|---|---|---|---|---|
| 1053 | 24/20 | | | 24,26, 27,28 | | | GP-SP | AS ABOVE. S&G SATURATED (GP-SP). 70% GRAVEL TO 30% SAND. |
| | | | | | | 41 | | |
| | | | | | | 42 | | WEATHERED L.S. FRAGMENTS. 3 INCHES OF SILTY-SANDY |
| 1106 | 24/12 | | | 29,32, 34,35 | | | | CLAY @ TOP OF SAMPLE. SATURATED. |
| | | | | | | 43 | | |
| | | | | | | 44 | | |
| | | | | | | 45 | | |
| | | | | | | 46 | | |
| | | | | | | 47 | | |
| | | | | | | 48 | | |
| | | | | | | 49 | | |
| | | | | | | 50 | | |
| | | | | | | 51 | | |
| | | | | | | 52 | | |
| | | | | | | 53 | | |
| | | | | | | 54 | | |
| | | | | | | 55 | | |
| | | | | | | 56 | | |
| | | | | | | 57 | | |
| | | | | | | 58 | | |
| | | | | | | 59 | | |

DRILLING CONTRACTOR BOWSER MORNER

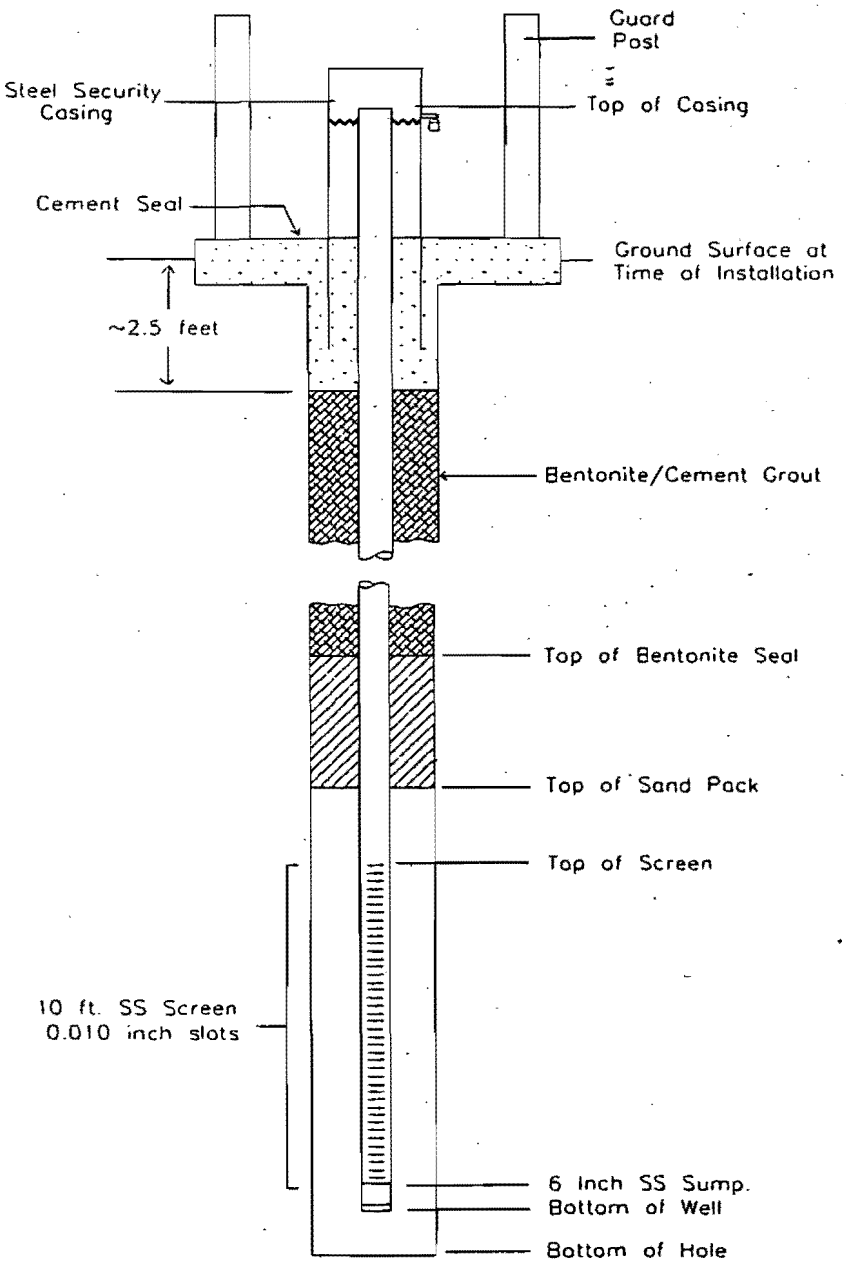
MIKE BRADY - TERRAN CORPORATION

DATE 3/13/97 CHECKED BY RWM

E102

# GROUNDWATER MONITORING WELL

| | | | |
|---|---|---|---|
| Well Diameter | 4 inch | Well Number | 0425 |
| Borehole Diameter | 10 inch | Completion Date | 3/17/97 |
| Casing Material | 304 Stainless Steel | Completed By | Terran / Bowser Morner |
| Screen Material | 304 Wirewrap Stainless Steel | Drilling Method | Hollow Stem Auger |
| Project | EGG297 | Location | EG&G Mound |




| | Vertical | Elevation |
|---|---|---|
| Top of Casing | +2.2' | 704.58 |
| Ground Surface at Time of Installation | 0' | 702.38 |
| Top of Bentonite Seal | 27.0' | 675.38 |
| Top of Sand Pack | 30.0' | 672.38 |
| Top of Screen | 34.61' | 667.77 |
| 6 Inch SS Sump. / Bottom of Well | 45.11' | 657.27 |
| Bottom of Hole | 45.5' | 656.88 |

E103

| LOCATION OF BORING | JOB NO. EGG297 | CLIENT EG&G MOUND APPLIED TECHNOLOGIES | LOCATION MIAMISBURG, OHIO |
|---|---|---|---|
| | DRILLING METHOD: HOLLOW STEM AUGERS | | BORING NO. 0425 |
| | CONTINUOUS 2' SPLIT-SPOON SAMPLING | | SHEET 1 OF 1 |
| | SAMPLING METHOD: N/A | | |

| | | | | | DRILLING START DATE | DRILLING FINISH DATE |
|---|---|---|---|---|---|---|
| WATER LEVEL | | | | | | |
| TIME | | | | | 3/17/97 | 3/17/97 |
| DATE | | | | | TIME | TIME |
| CASING DEPTH | | | | | 0810 | 1445 |

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

| SAMPLER TYPE | INCHES DRIVEN / INCHES RECOVERED | DEPTH OF CASING | SAMPLE NO. / SAMPLE DEPTH | BLOWS/FT SAMPLER | WELL CONST. | DEPTH IN FEET | SOIL CLASS |
|---|---|---|---|---|---|---|---|
| | | | | | | 1 | |
| | | | | | | 2 | |
| | | | | | | 3 | |
| | | | | | | 4 | |
| | | | | | | 5 | |
| | | | | | | 6 | |
| | | | | | | 7 | |
| | | | | | | 8 | |
| | | | | | | 9 | |
| | | | | | | 10 | |
| | | | | | | 11 | |
| | | | | | | 12 | |
| | | | | | | 13 | |
| | | | | | | 14 | |
| | | | | | | 15 | |
| | | | | | | 16 | |
| | | | | | | 17 | |
| | | | | | | 18 | |
| | | | | | | 19 | |

BORING 0425 WAS NOT LOGGED

DRILLING CONTRACTOR BOWSER MORNER

Y MIKE BRADY - TERRAN CORPORATION

ATE 3/17/97 CHECKED BY RWM

E104

# Attachment F

## PRS 414 Further Assessment Data Report, March 2004, Rev. 1

# PRS 414

# FURTHER ASSESSMENT DATA REPORT

**March 2004**

**Rev. 1**

MIAMISBURG
CLOSURE PROJECT

CH2MHILL

F1

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CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

ER-014/04
March 9, 2004

Ms. Margaret L. Marks, Acting Director
Miamisburg Closure Project
U. S. Department of Energy
500 Capstone Circle
Miamisburg, OH 45342

SUBJECT: Contract No. DE-AC24-03OH20152
Contract Deliverable 039 – PRS Documents
**PRS 414 FURTHER ASSESSMENT DATA REPORT, REV. 1**

Dear Ms. Marks:

Attached please find revisions to the PRS 414 Further Assessment Data Report, Rev 0. The revisions were agreed to based on a teleconference held March 4 with USEPA, OEPA, DOE and CH2M HILL. These revisions can simply be used in place of the original pages in Rev 0. The attachments are as follows:

1) New cover sheet indicating Revision 1

2) New Appendix B which includes all applicable OU-1 rebound test data

3) New page 4 with last sentence of section 3.1 edited to reflect that only those wells with TCE and PCE detection's are included as time series charts.

If you have any questions or concerns please call me at 937-865- 4543

Sincerely,

Monte A. Williams
Deputy Project Manager, Environmental Restoration

MAW/MDG/jdg

Enclosure

cc: David Seely, USEPA, (1) w/attachments
Mary C. Wojciechowski, Tetra Tech EM, Inc., (1) w/attachments
Brian Nickel, OEPA, (4) w/attachments
Ruth Vandegrift, ODH, (1) w/attachments
Paul Lucas, DOE/MCP, (1) w/attachments
Danny Punch, DOE/MCP, (1) w/attachments
Lisa Rawls, DOE/MCP, w/o attachments
Monte Williams, CH2M HILL, (1) w/attachments
John Fulton, CH2M HILL, w/o attachments
Gene Valett, CH2M HILL, w/o attachments
Dave Rakel, CH2M HILL, w/o attachments
DCC, (1) w/attachments

F3

## 2.2 SAMPLE SUMMARY

Samples were collected and analyzed in accordance with procedures outlined in the Methods Compendium (MD-80045, May 2000).

# 3.0 RESULTS

The following analytical providers were used in support of the SAP:

- RCRA Lionville for offsite volatile organic compound analysis.

## 3.1 VOC GROUNDWATER RESULTS

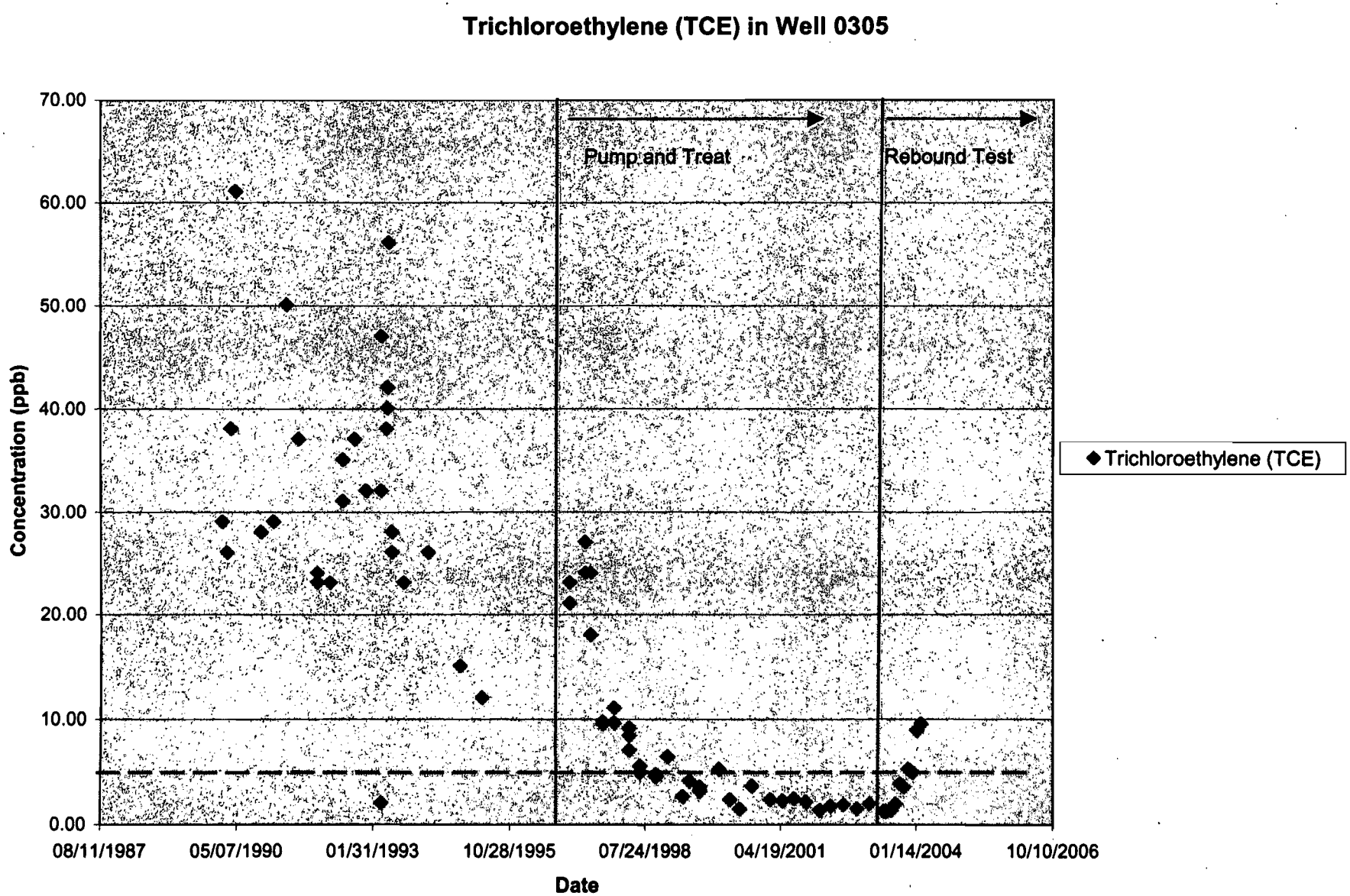
Offsite chemical analysis for VOCs was performed on all groundwater samples. Appendix A shows all VOC groundwater detections for the monitoring period of interest (Jan 1997 through May 2003). Trichloroethene (TCE) and Tetrachloroethene (PCE) are the only VOCs that currently occur above Federal Maximum Contaminant Levels (MCLs) within the groundwater associated with PRS 414. Appendix B shows time series groundwater concentration charts for TCE and PCE in those PRS 414 monitoring wells that have had detections of those compounds.

## 3.2 PRS 282 VOC SOIL RESULTS

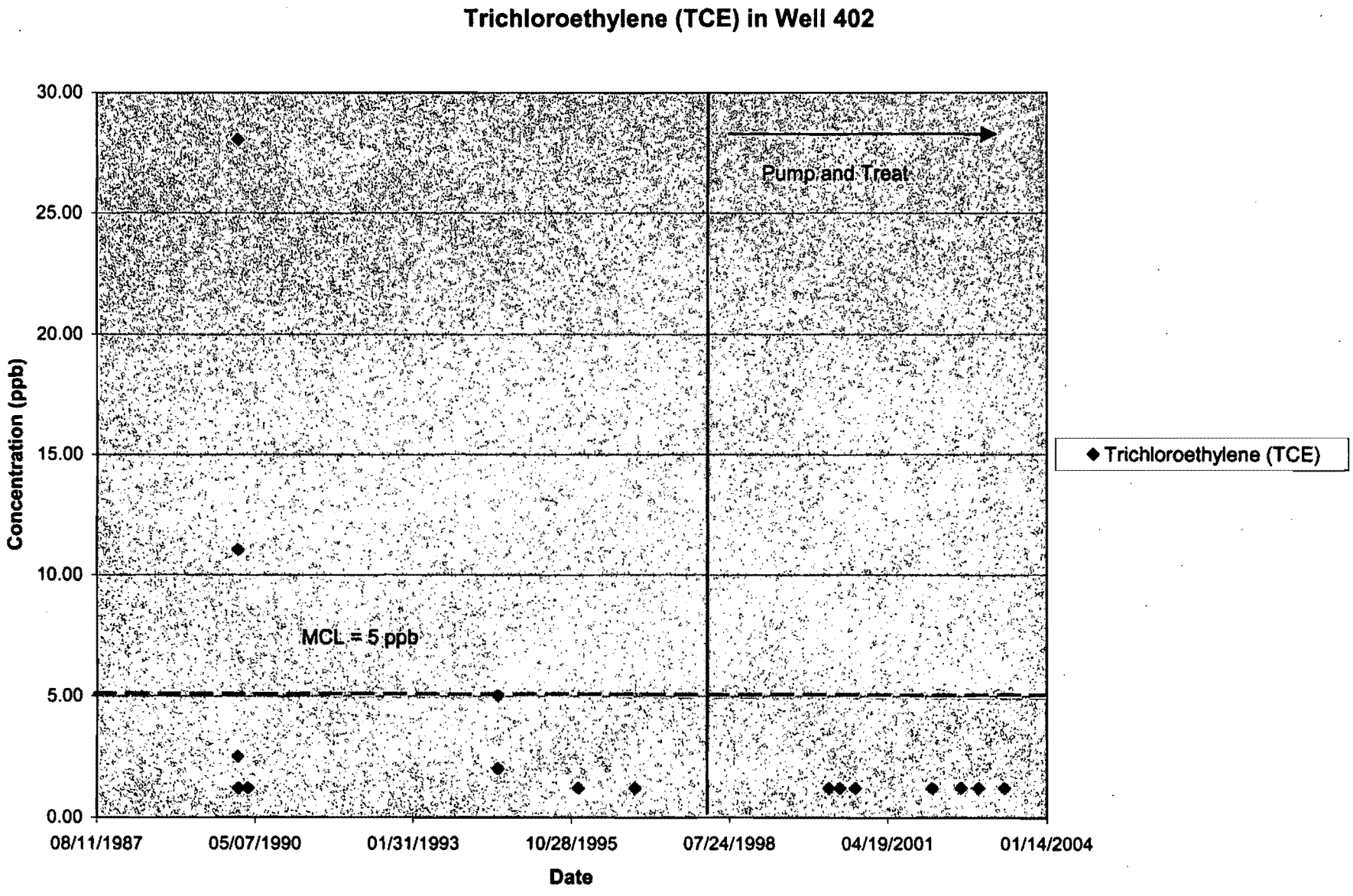
VOC soil samples were collected as part of the PRS 282 Further Assessment. Based on the results it was determined that the soils posed no threat to the underlying groundwater system (see PRS 282 Data Report). The PRS was binned No Further Assessment (NFA) by the Core Team on December 11, 2002.

# APPENDIX B

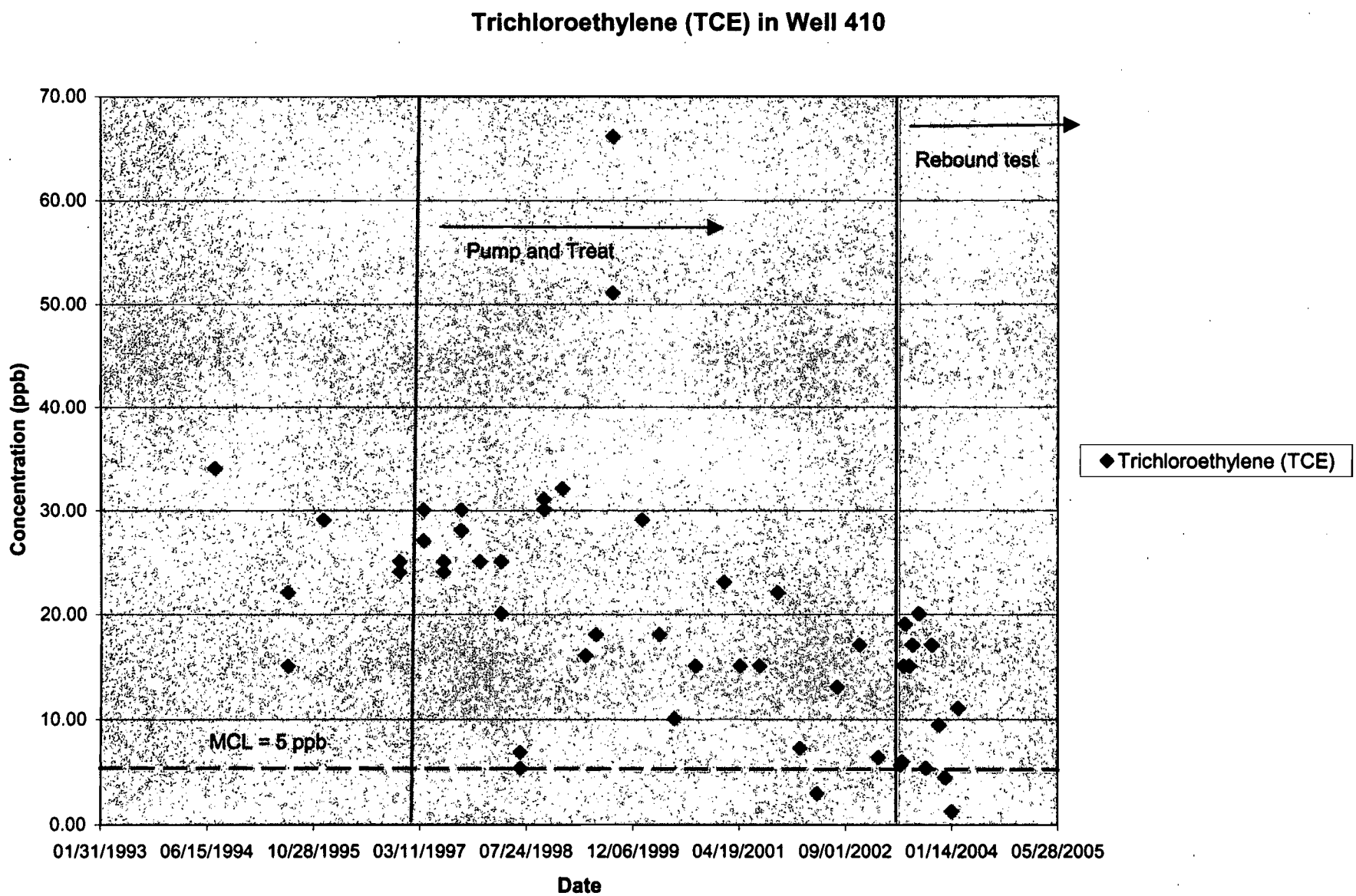
## TIME SERIES CHARTS (INCLUDING OU-1 REBOUND TEST RESULTS)


Trichloroethylene (TCE) in Well 0305
Pump and Treat
Rebound Test
Trichloroethylene (TCE)
Concentration (ppb)
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
10/10/2006
Date

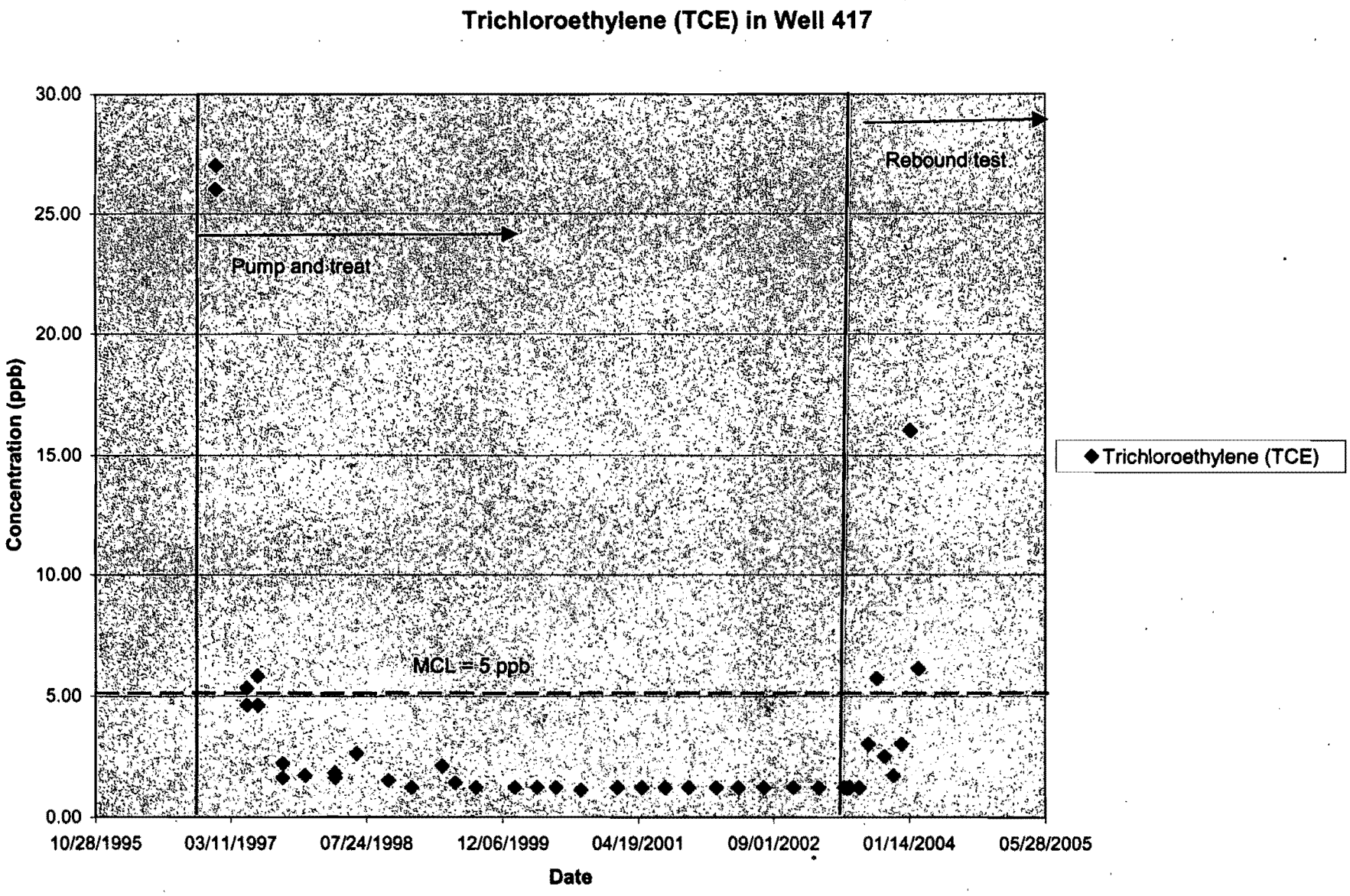
F6

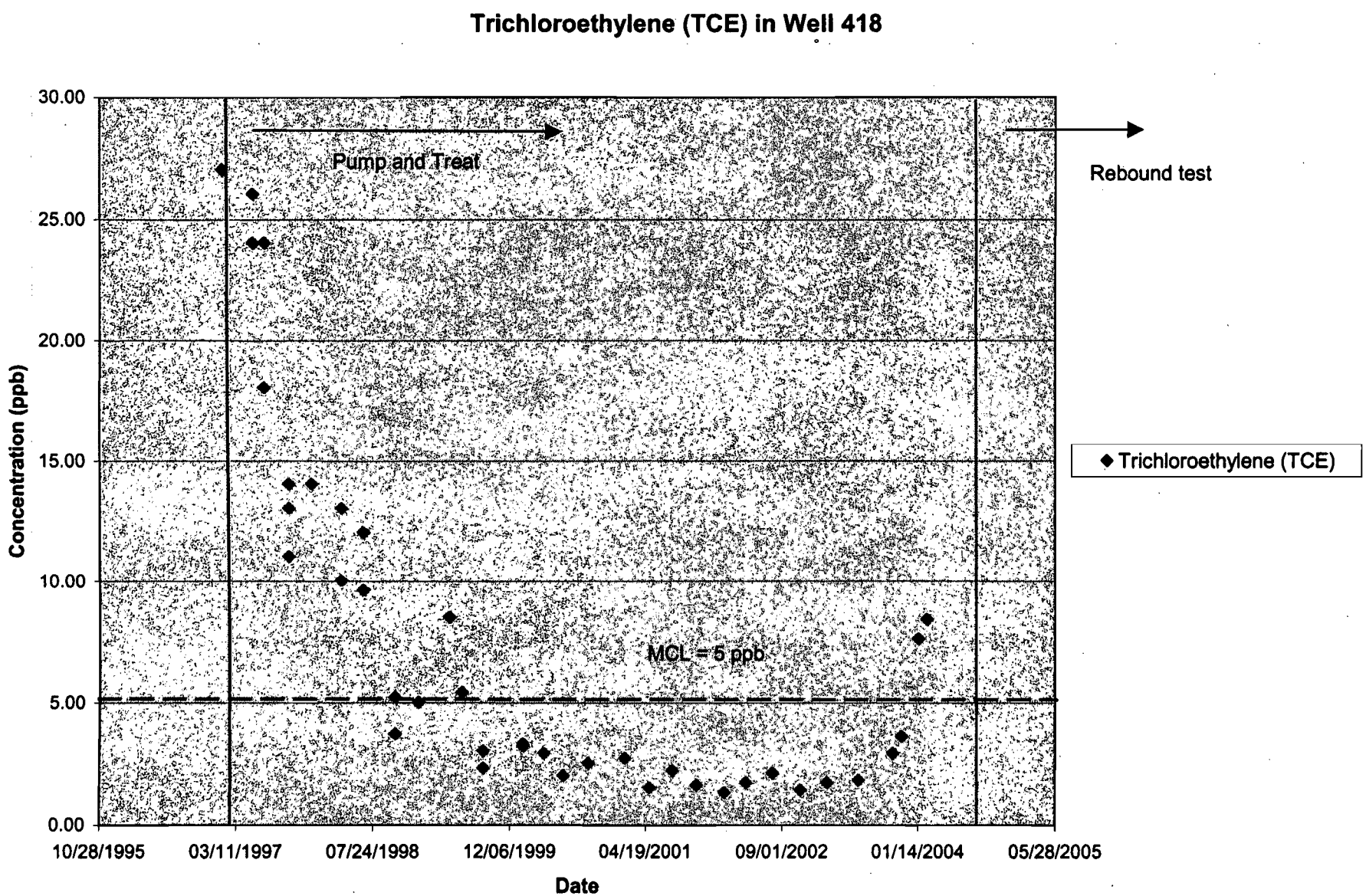

Trichloroethylene (TCE) in Well 402
Concentration (ppb)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
Date
Pump and Treat
MCL = 5 ppb
Trichloroethylene (TCE)

F7

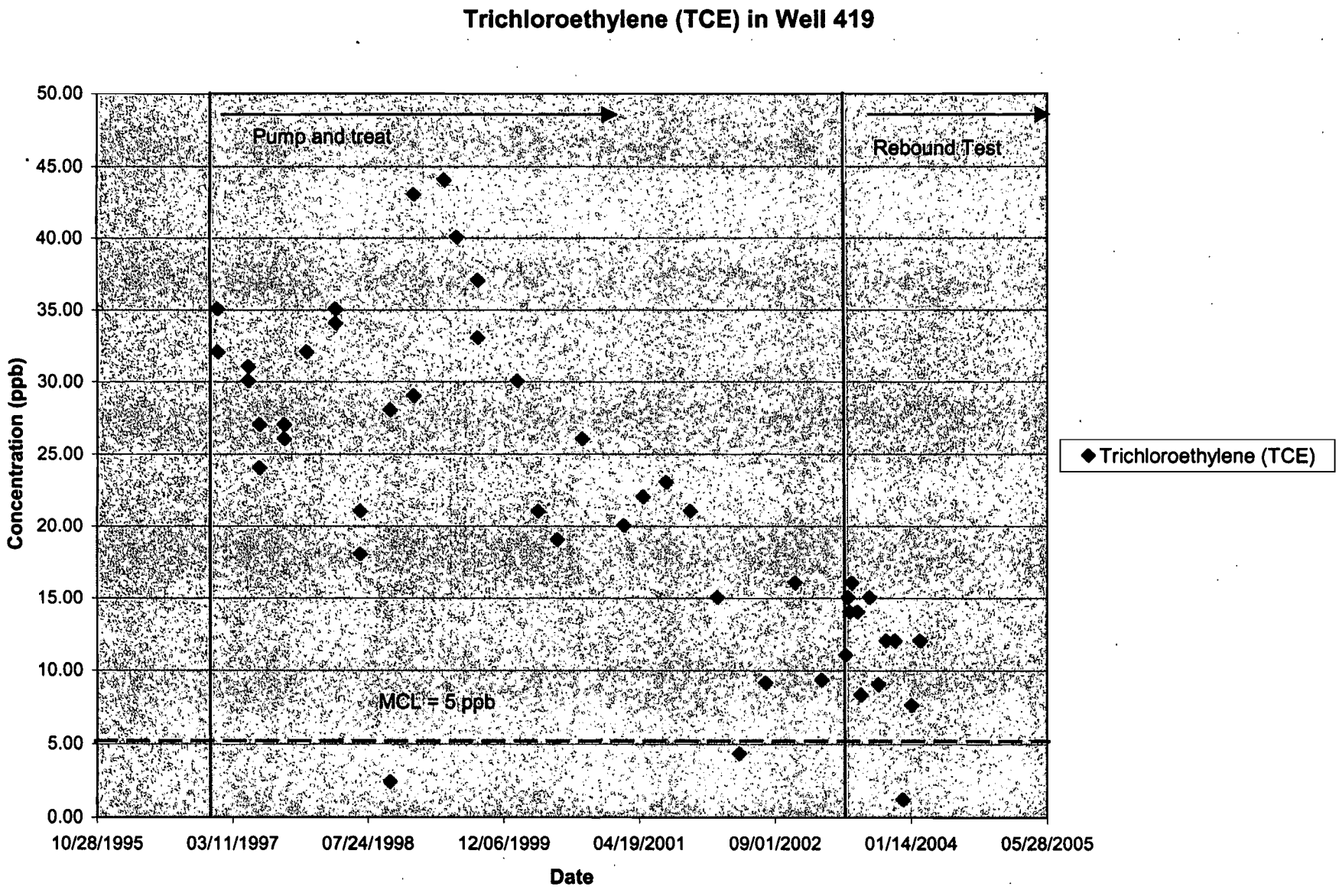

Trichloroethylene (TCE) in Well 410
Concentration (ppb)
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Pump and Treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)

F8

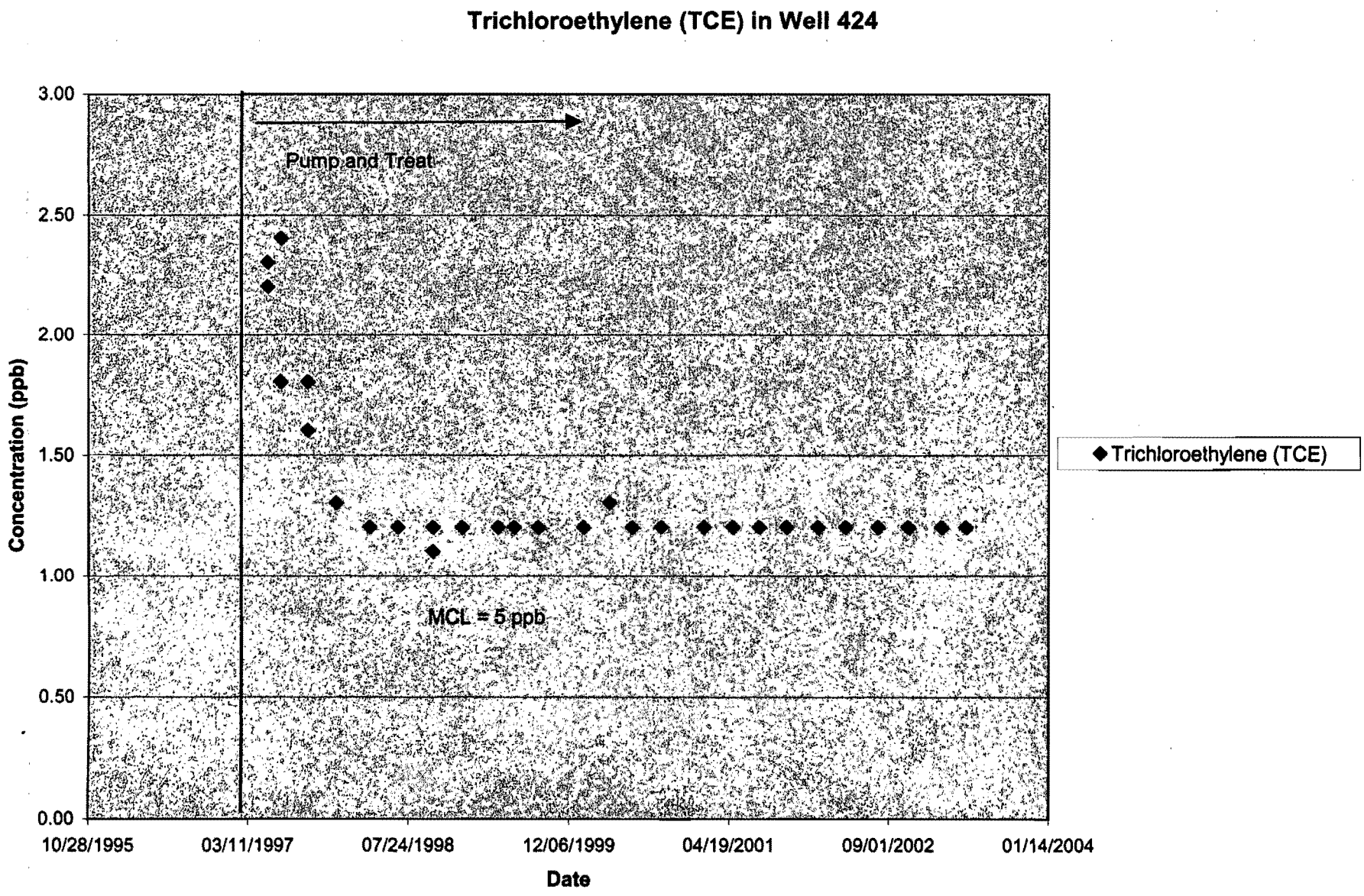

Trichloroethylene (TCE) in Well 417
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Concentration (ppb)
Pump and treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date


Trichloroethylene (TCE) in Well 418
Pump and Treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
Concentration (ppb)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

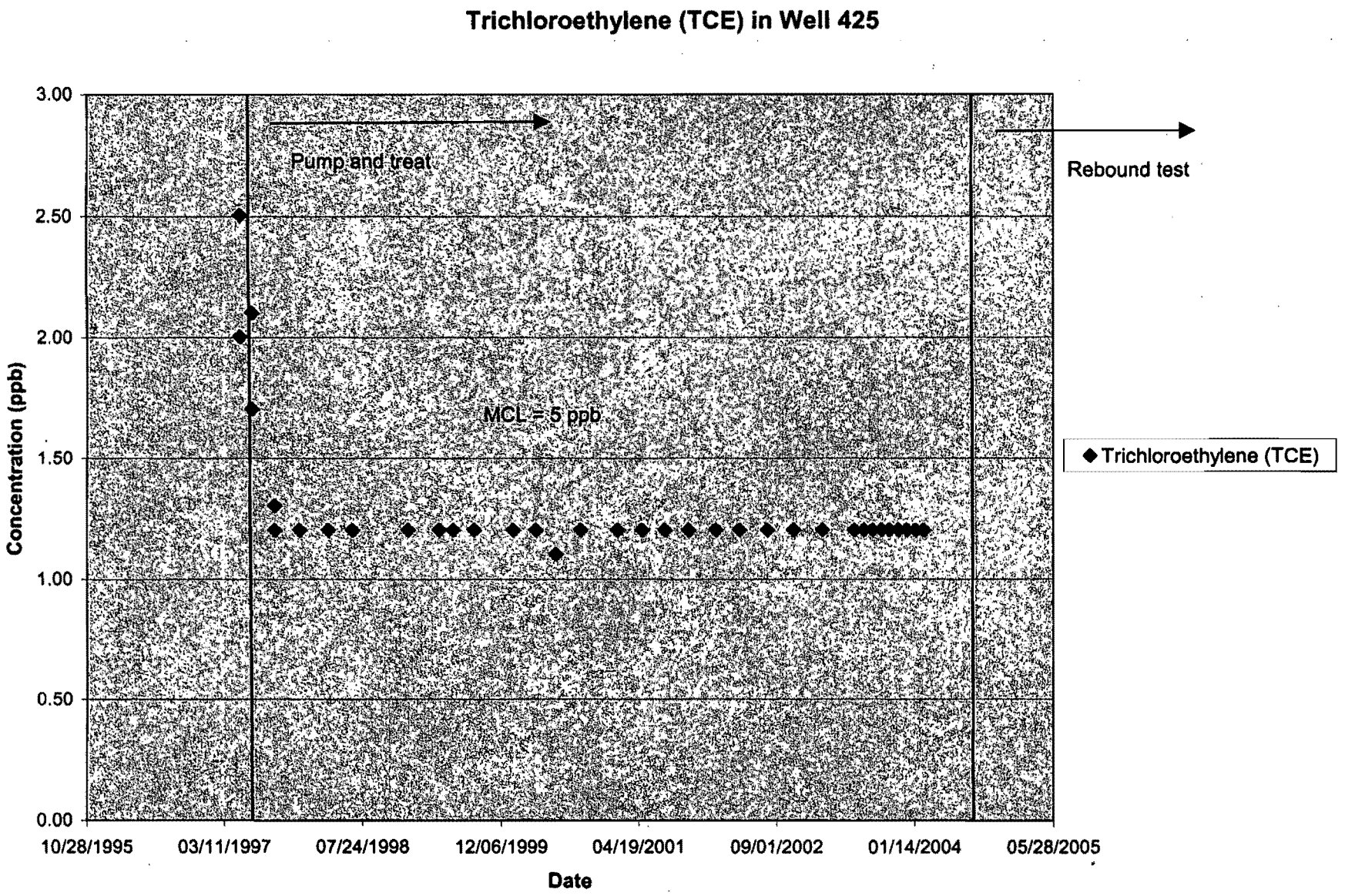
Fig


Trichloroethylene (TCE) in Well 419
Pump and treat
Rebound Test
MCL = 5 ppb
Concentration (ppb)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

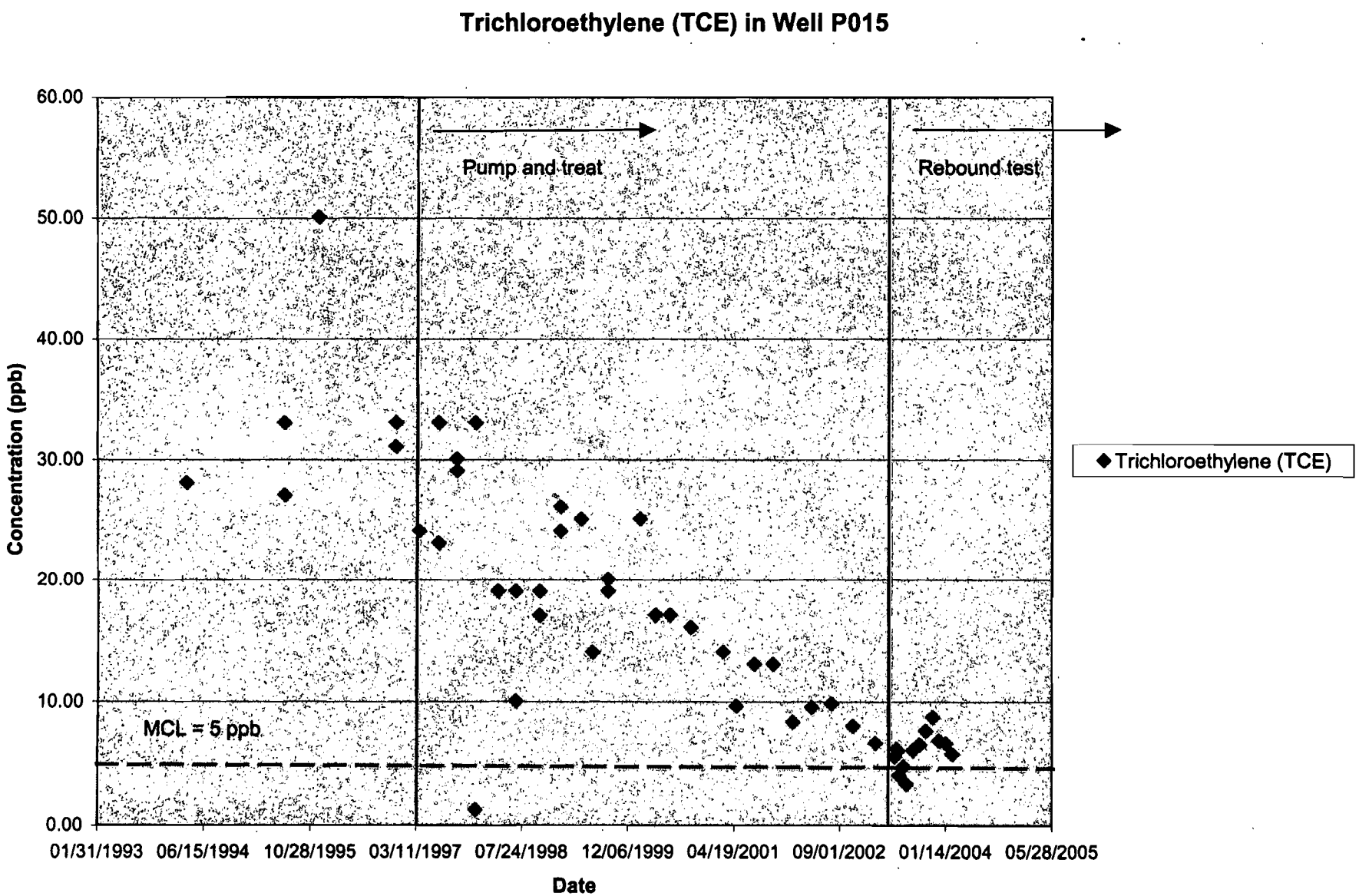
F11


Trichloroethylene (TCE) in Well 424
Pump and Treat
MCL = 5 ppb
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Trichloroethylene (TCE)

F12

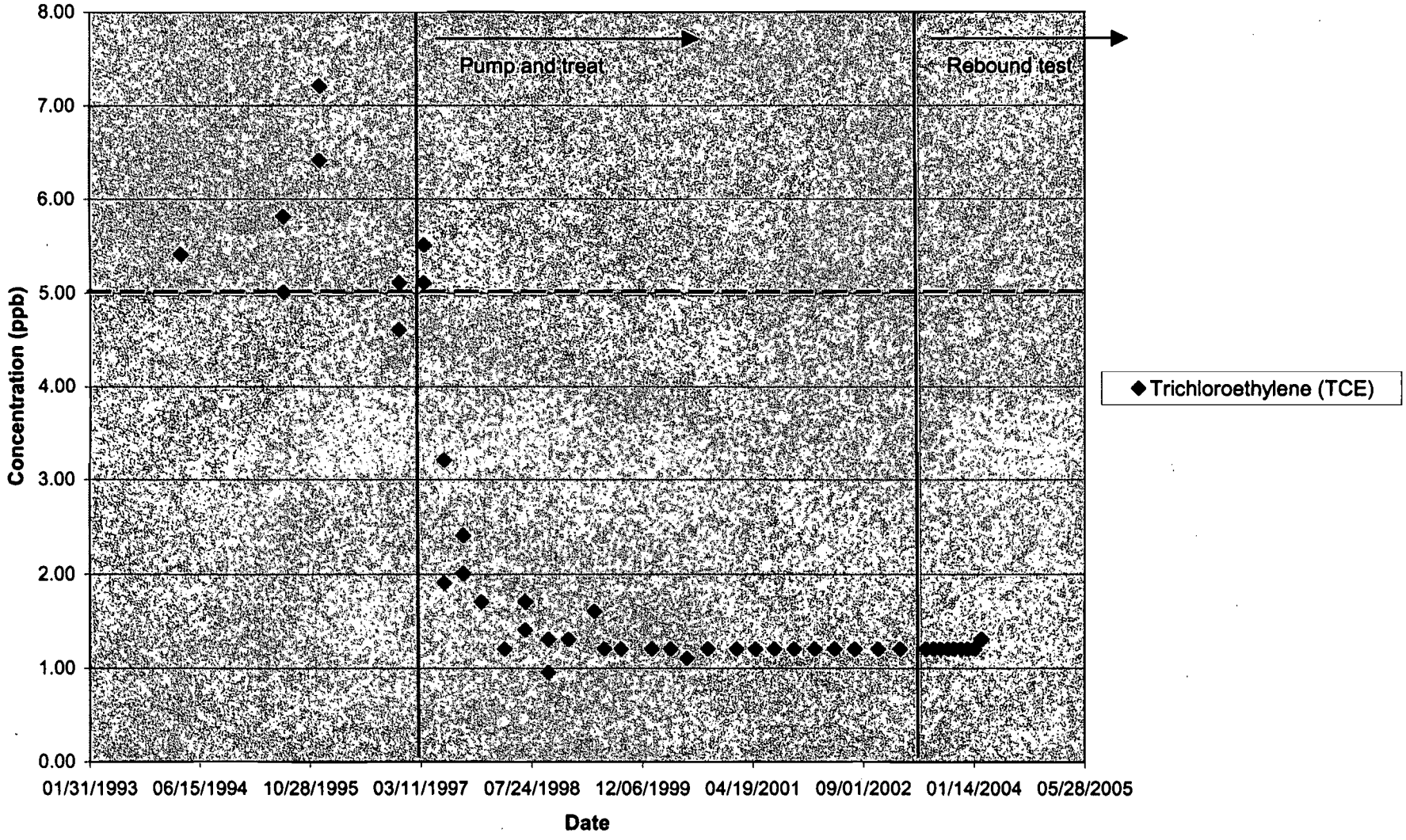

Trichloroethylene (TCE) in Well 425
Pump and treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

F13

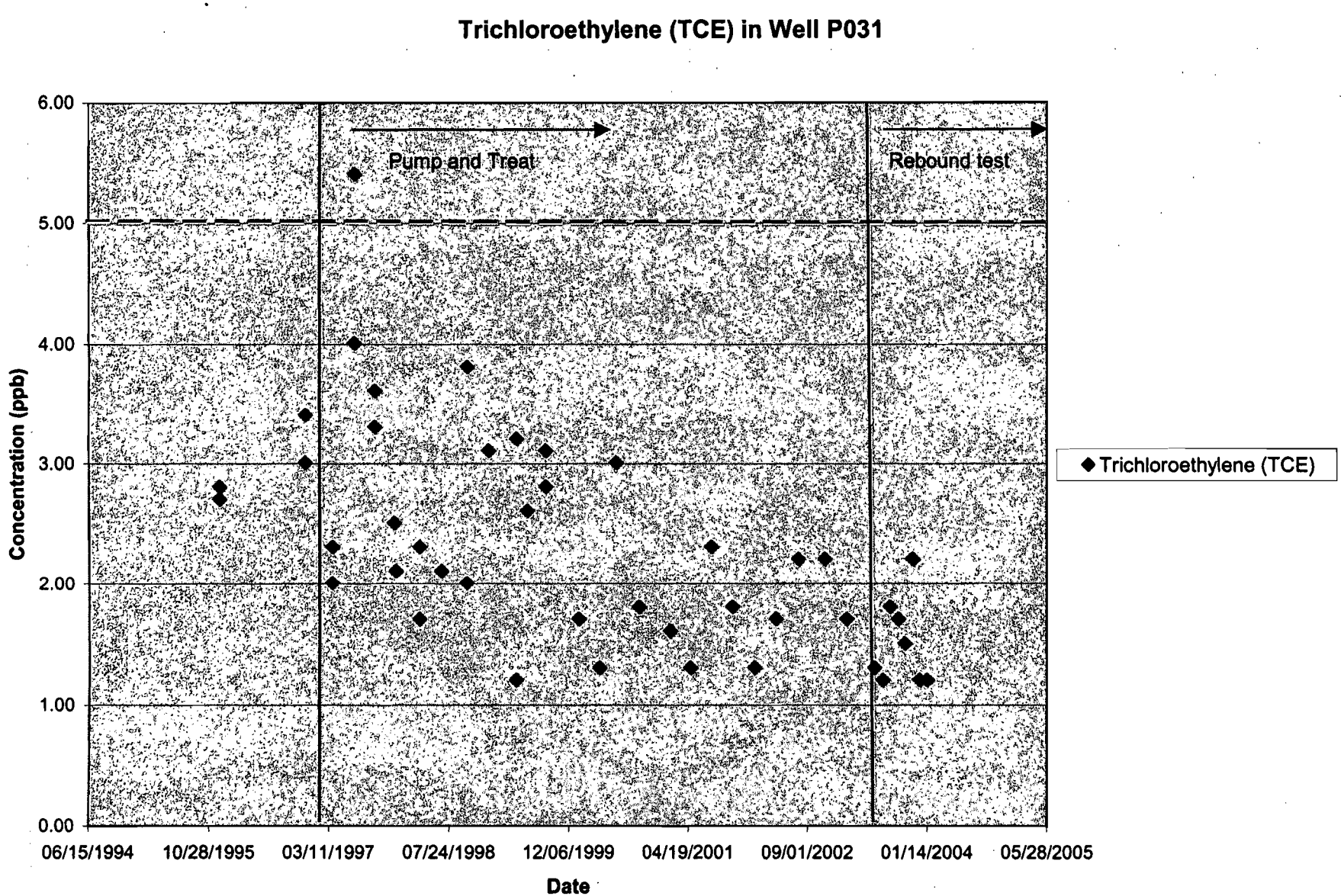

Trichloroethylene (TCE) in Well P015
Pump and treat
Rebound test
MCL = 5 ppb
Concentration (ppb)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

Fig

## Trichloroethylene (TCE) in Well P027

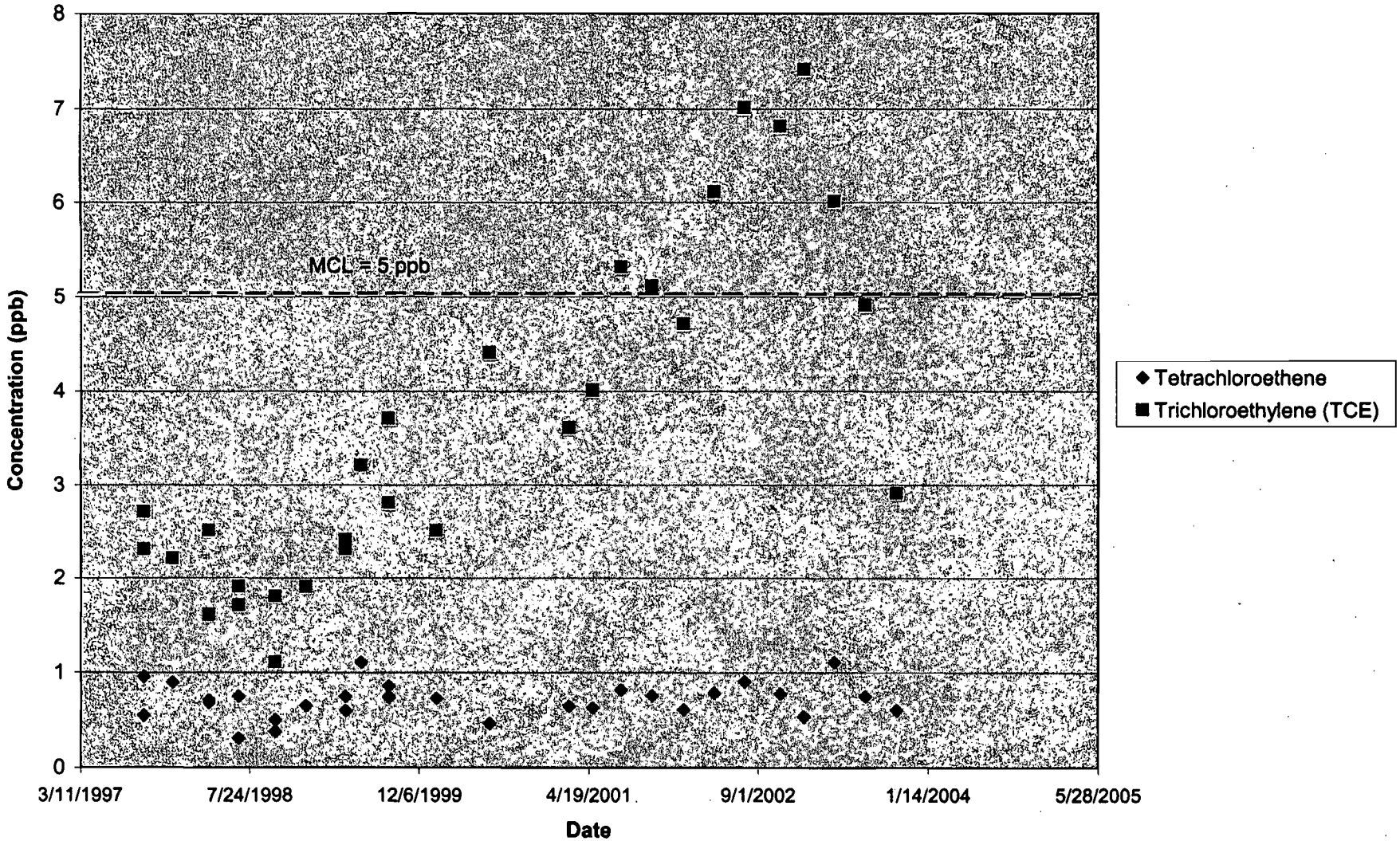



F 15


Trichloroethylene (TCE) in Well P031
Pump and Treat
Rebound test
Concentration (ppb)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

F16

## VOC Levels in P046




F17

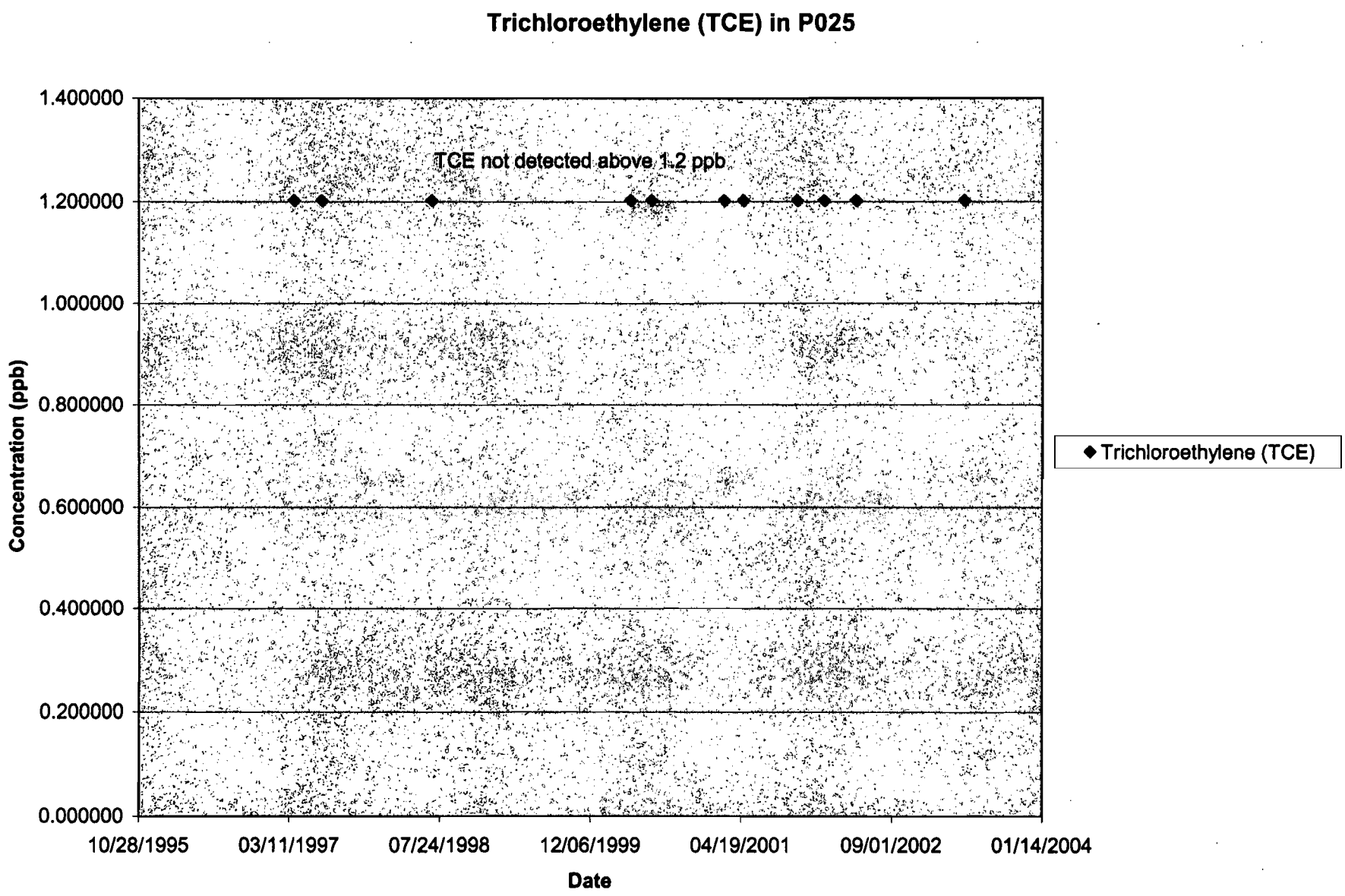
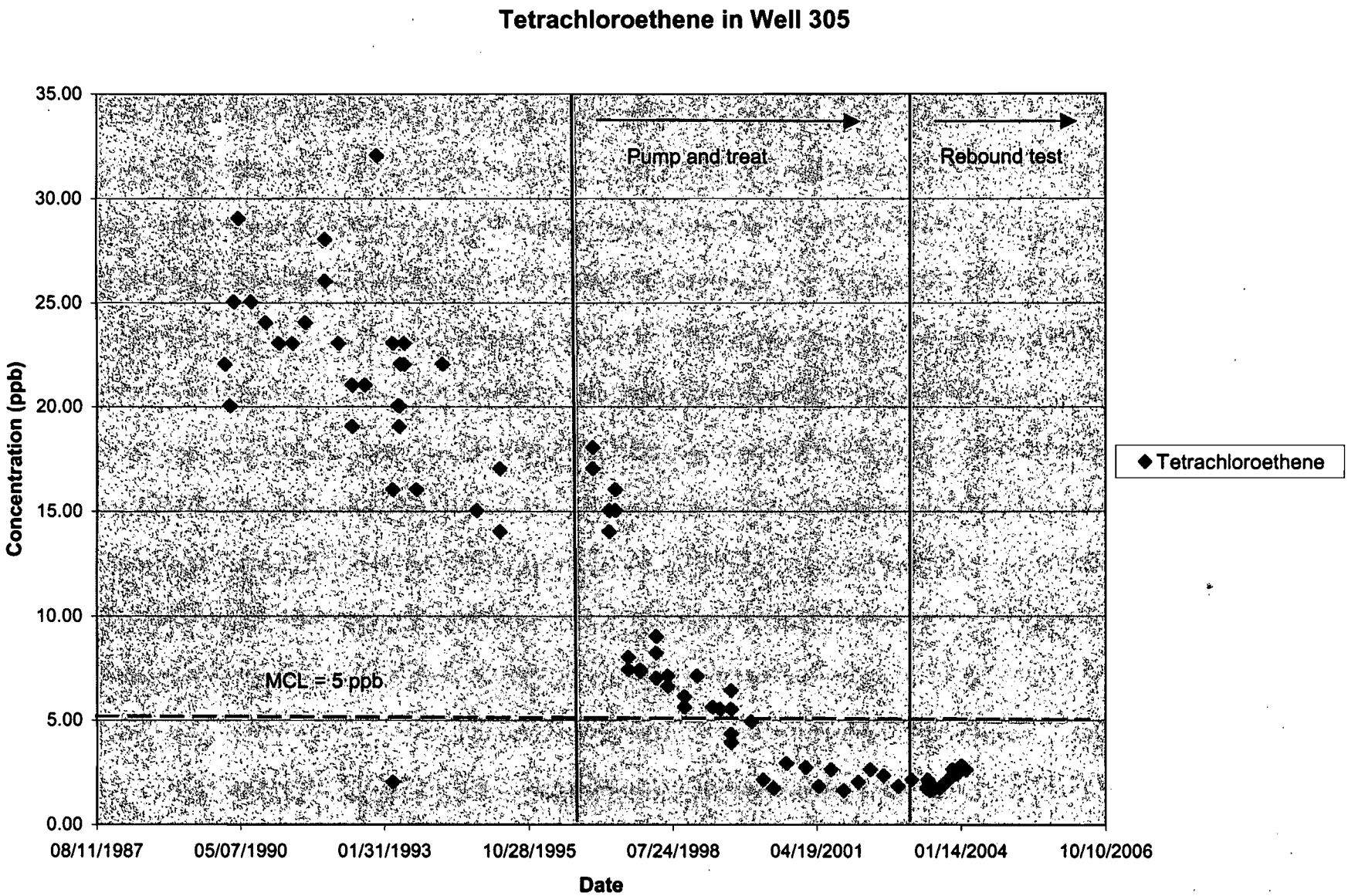
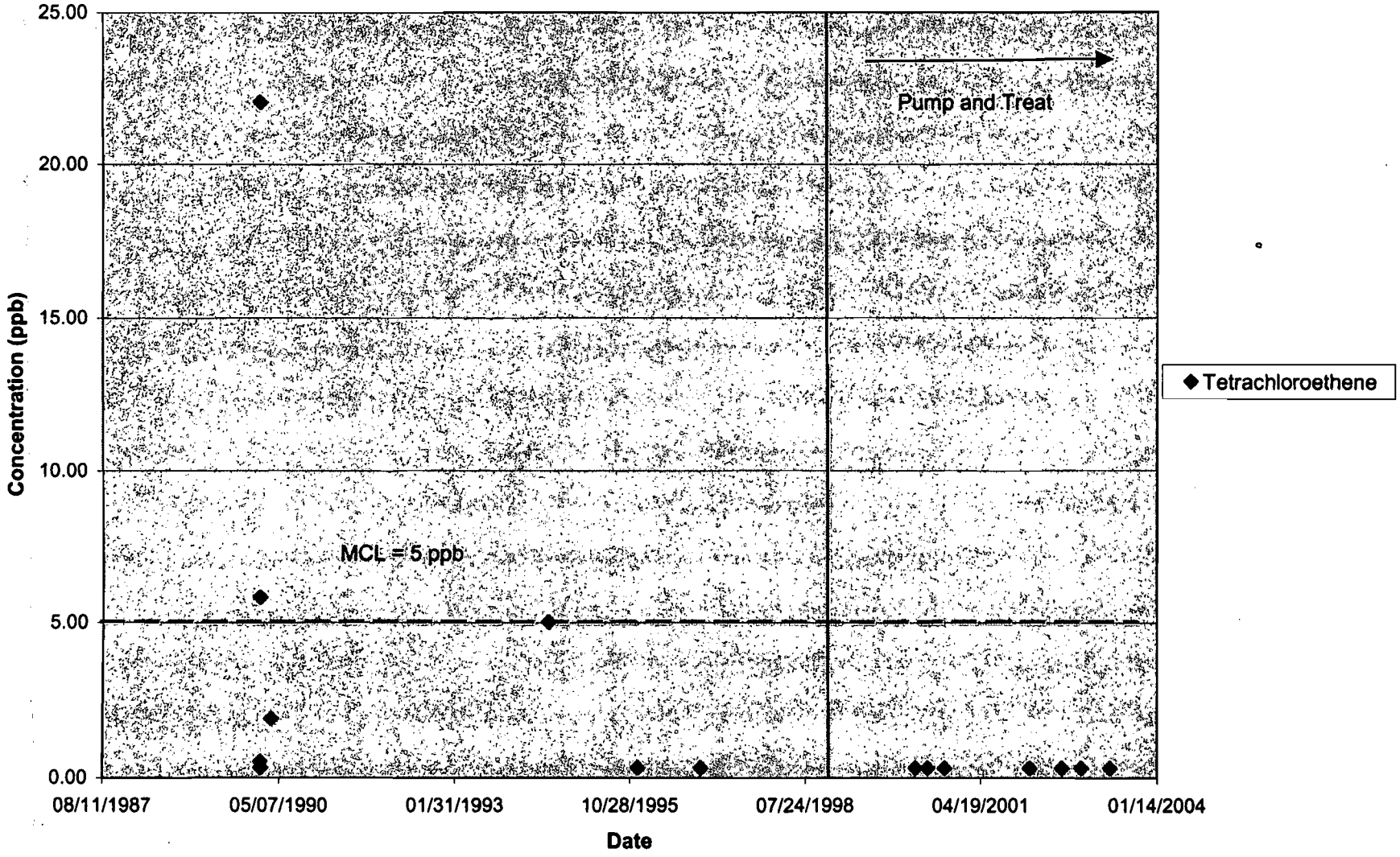

Trichloroethylene (TCE) in P025
TCE not detected above 1.2 ppb
1.400000
1.200000
1.000000
0.800000
0.600000
0.400000
0.200000
0.000000
Concentration (ppb)
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Trichloroethylene (TCE)

Fig 8

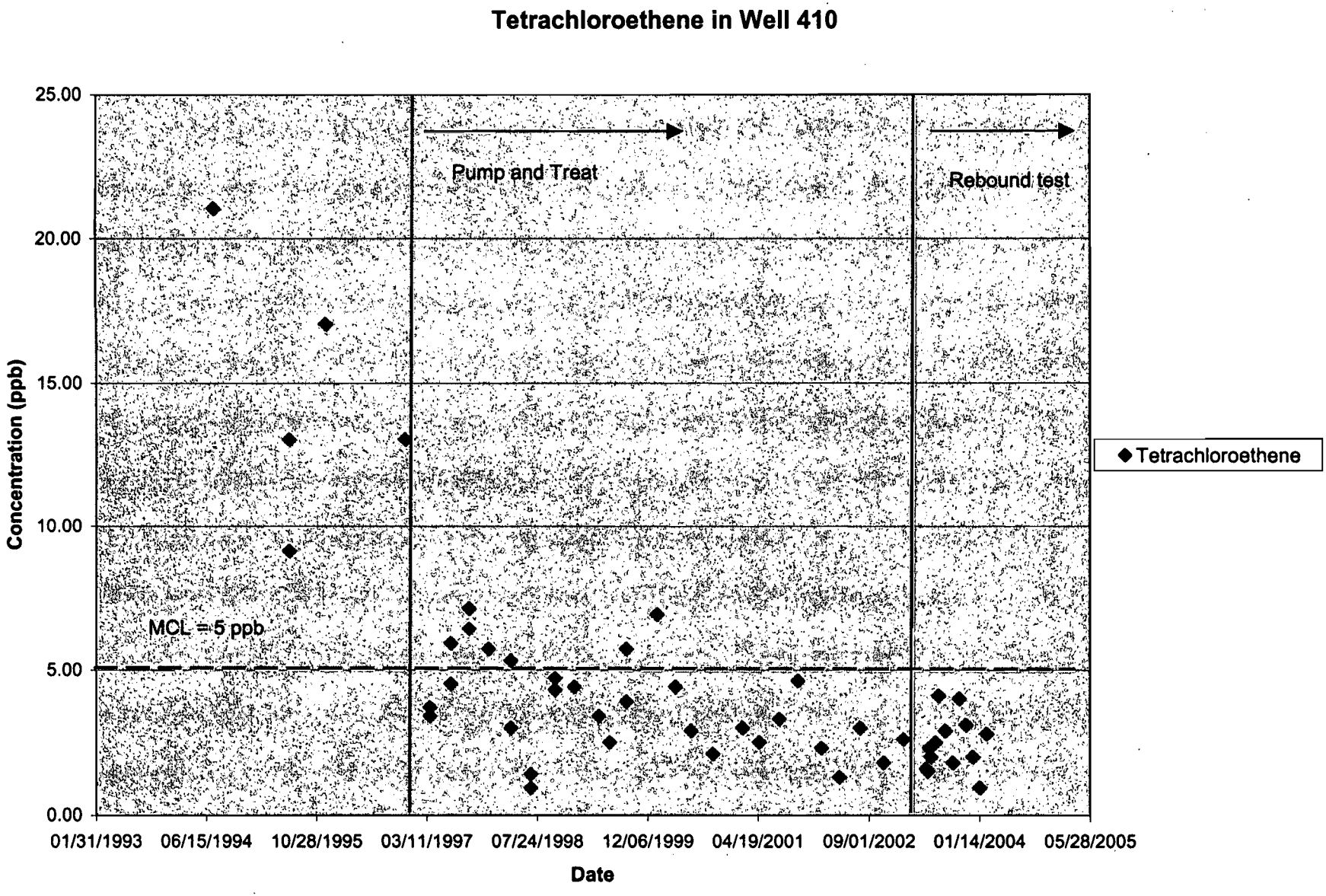

Tetrachloroethene in Well 305
Concentration (ppb)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
10/10/2006
Date
Pump and treat
Rebound test
MCL = 5 ppb
Tetrachloroethene

F19

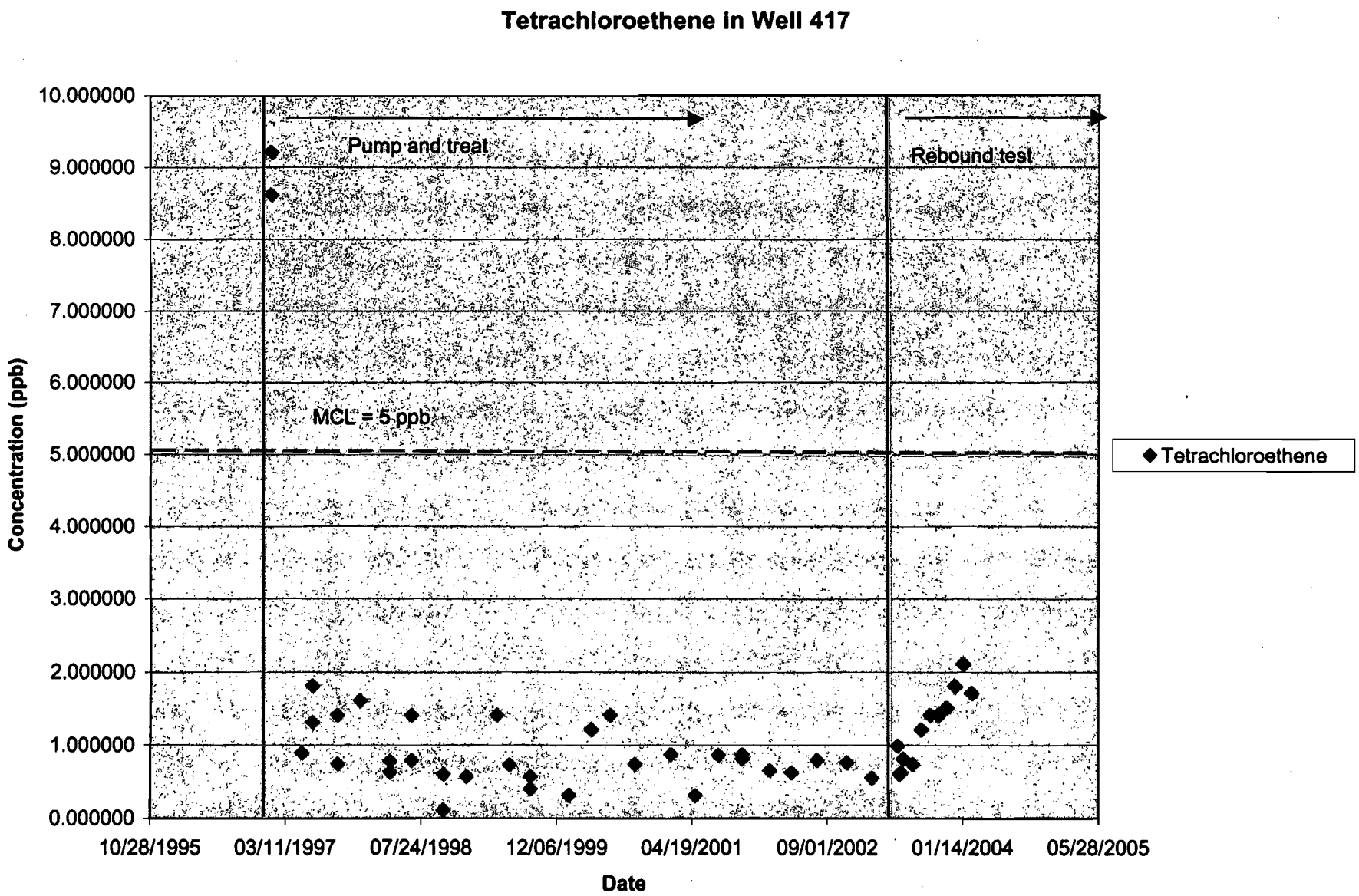
## Tetrachloroethene in Well 402



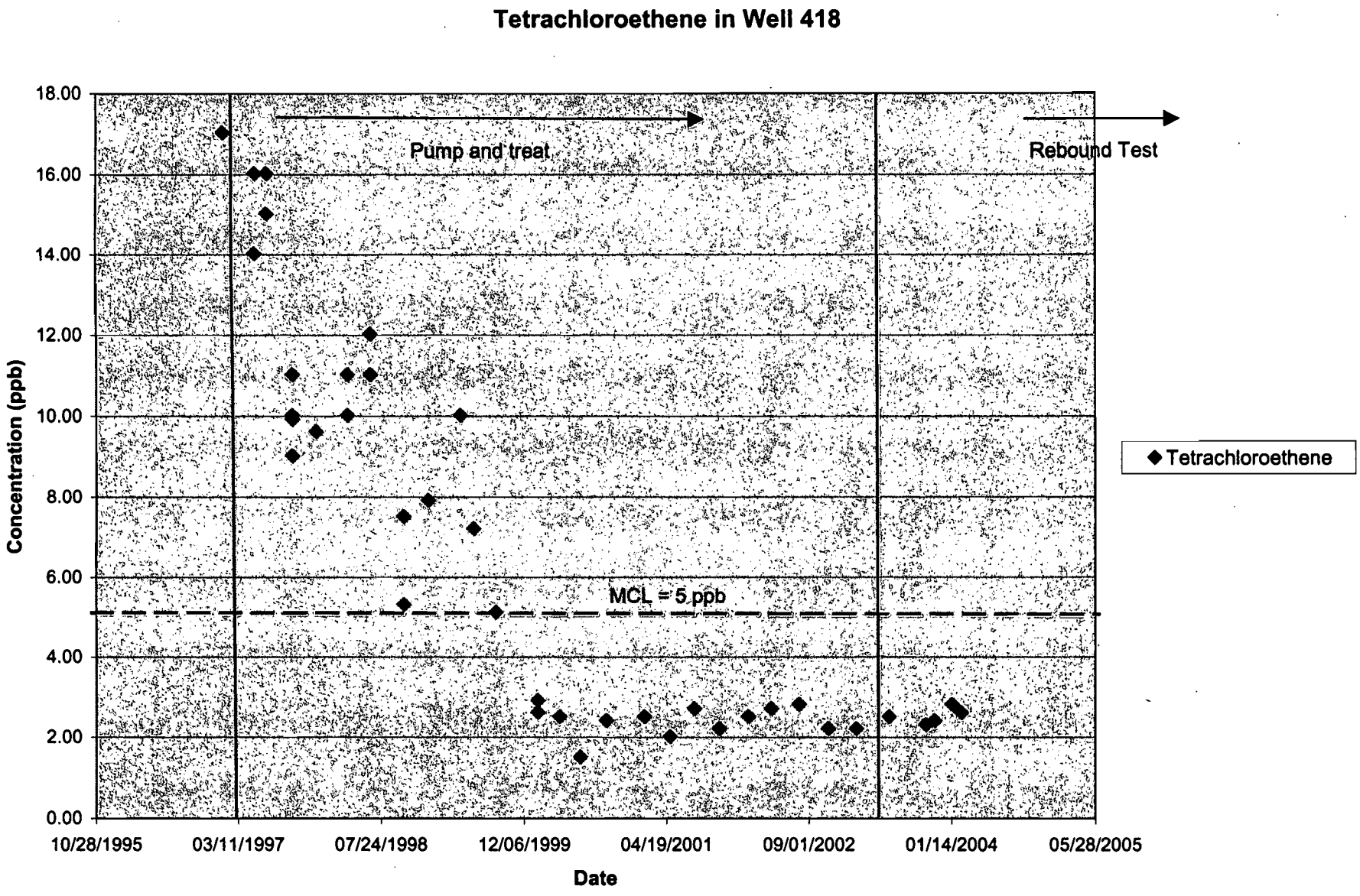

F20


Tetrachloroethene in Well 410
Pump and Treat
Rebound test
MCL = 5 ppb
Concentration (ppb)
25.00
20.00
15.00
10.00
5.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

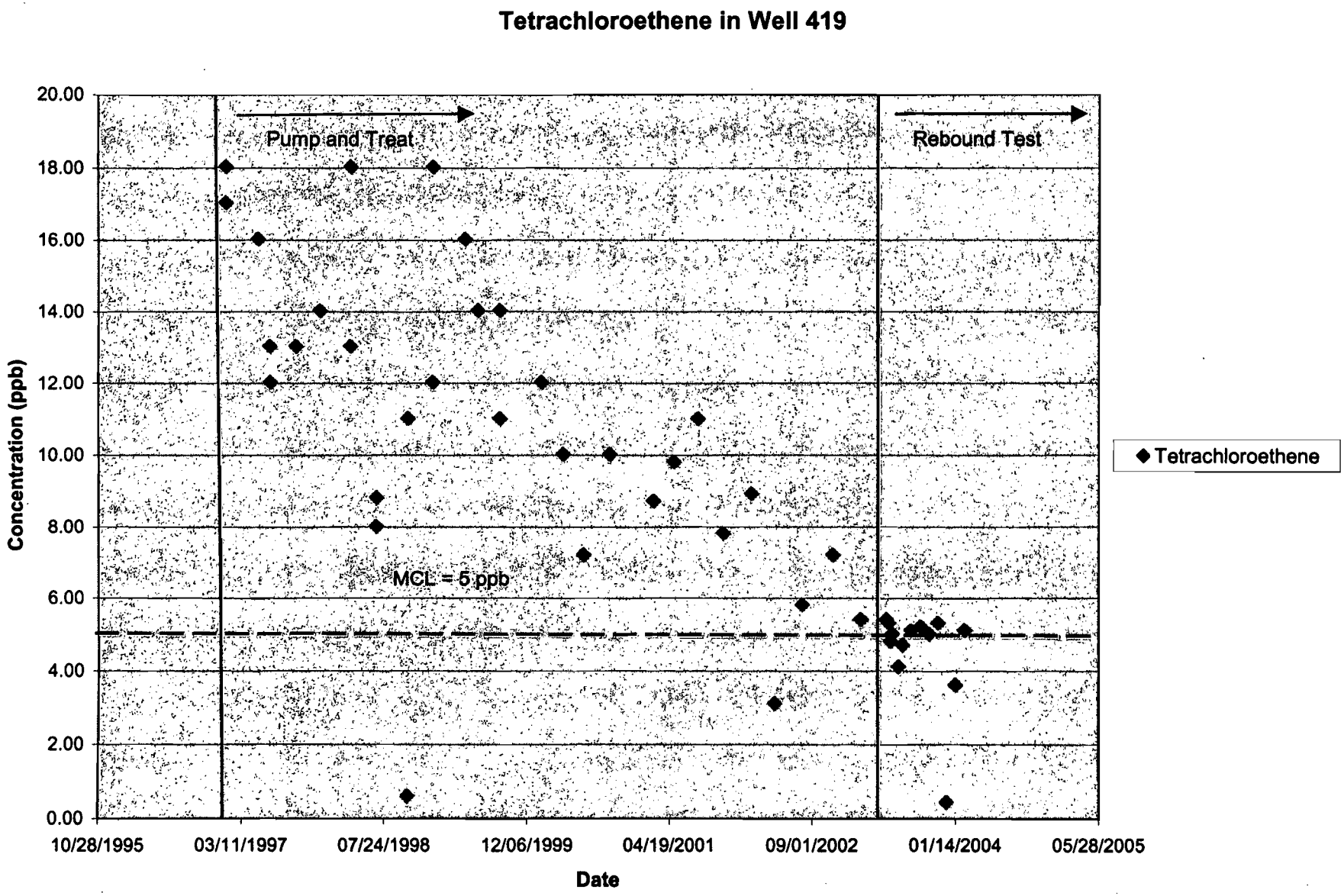
F21


Tetrachloroethene in Well 417
Pump and treat
Rebound test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
10.000000
9.000000
8.000000
7.000000
6.000000
5.000000
4.000000
3.000000
2.000000
1.000000
0.000000
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

F22

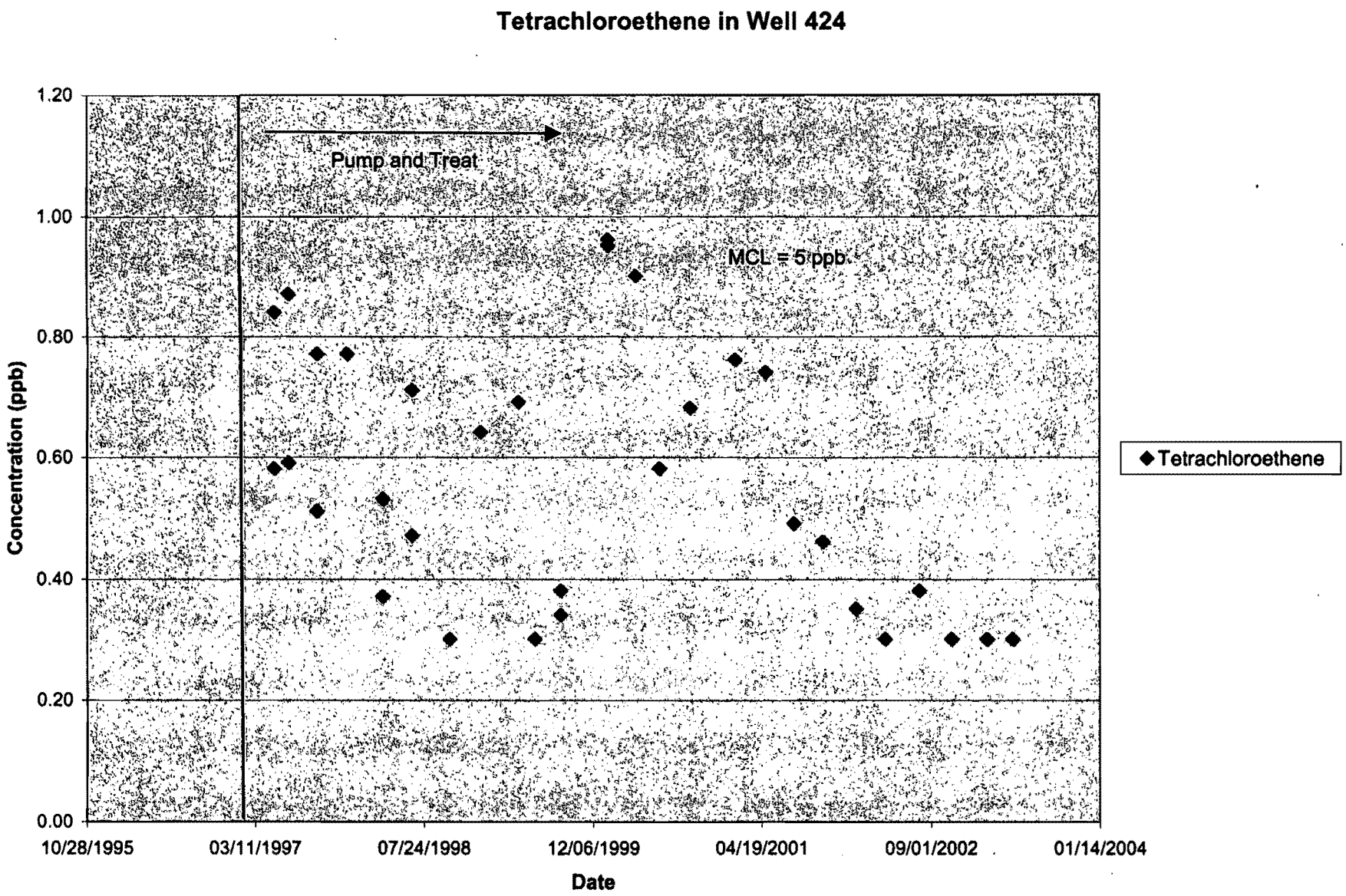

Tetrachloroethene in Well 418
Pump and treat
Rebound Test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

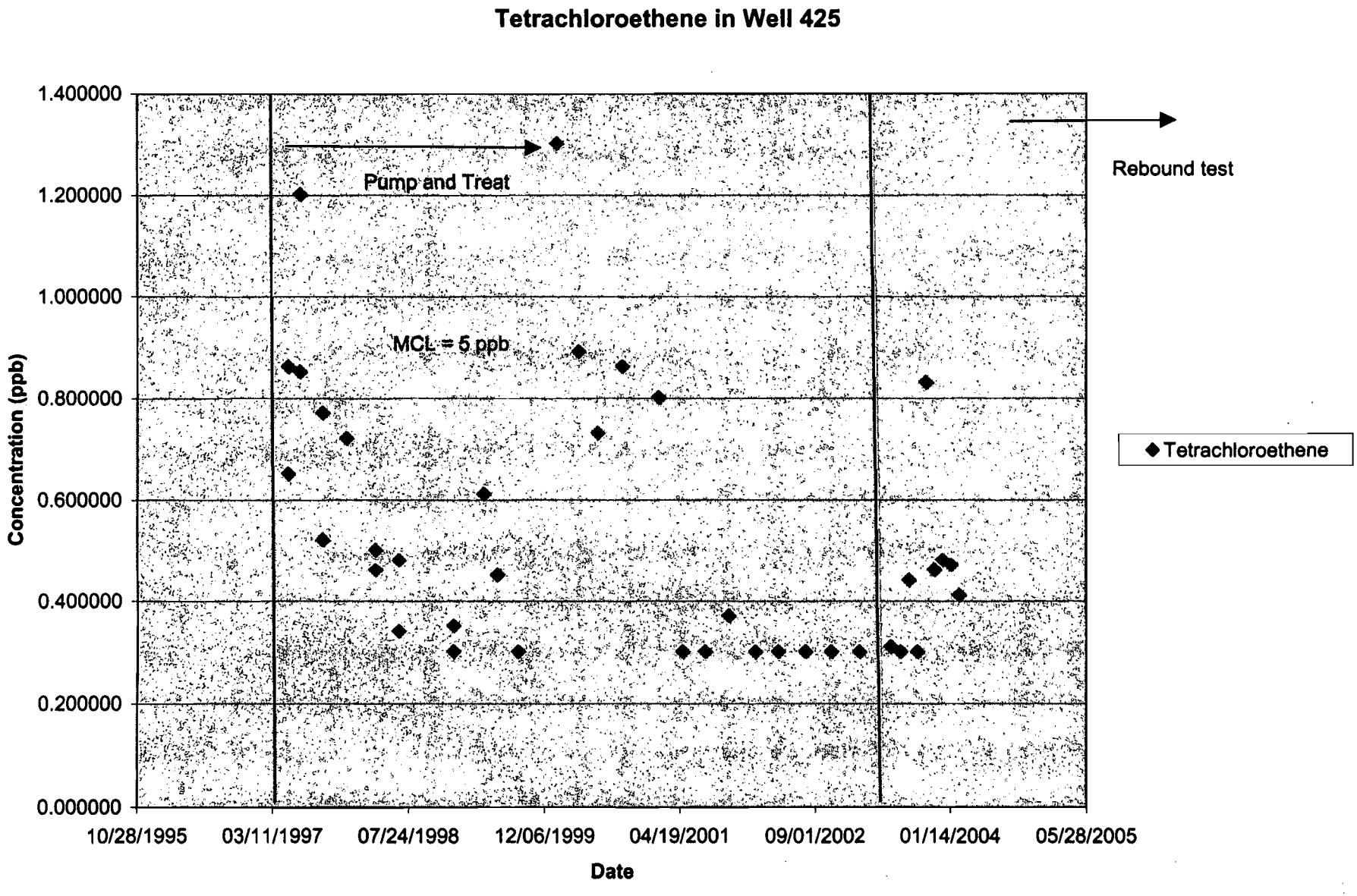
F23


Tetrachloroethene in Well 419
Pump and Treat
Rebound Test
MCL = 5 ppb
Concentration (ppb)
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

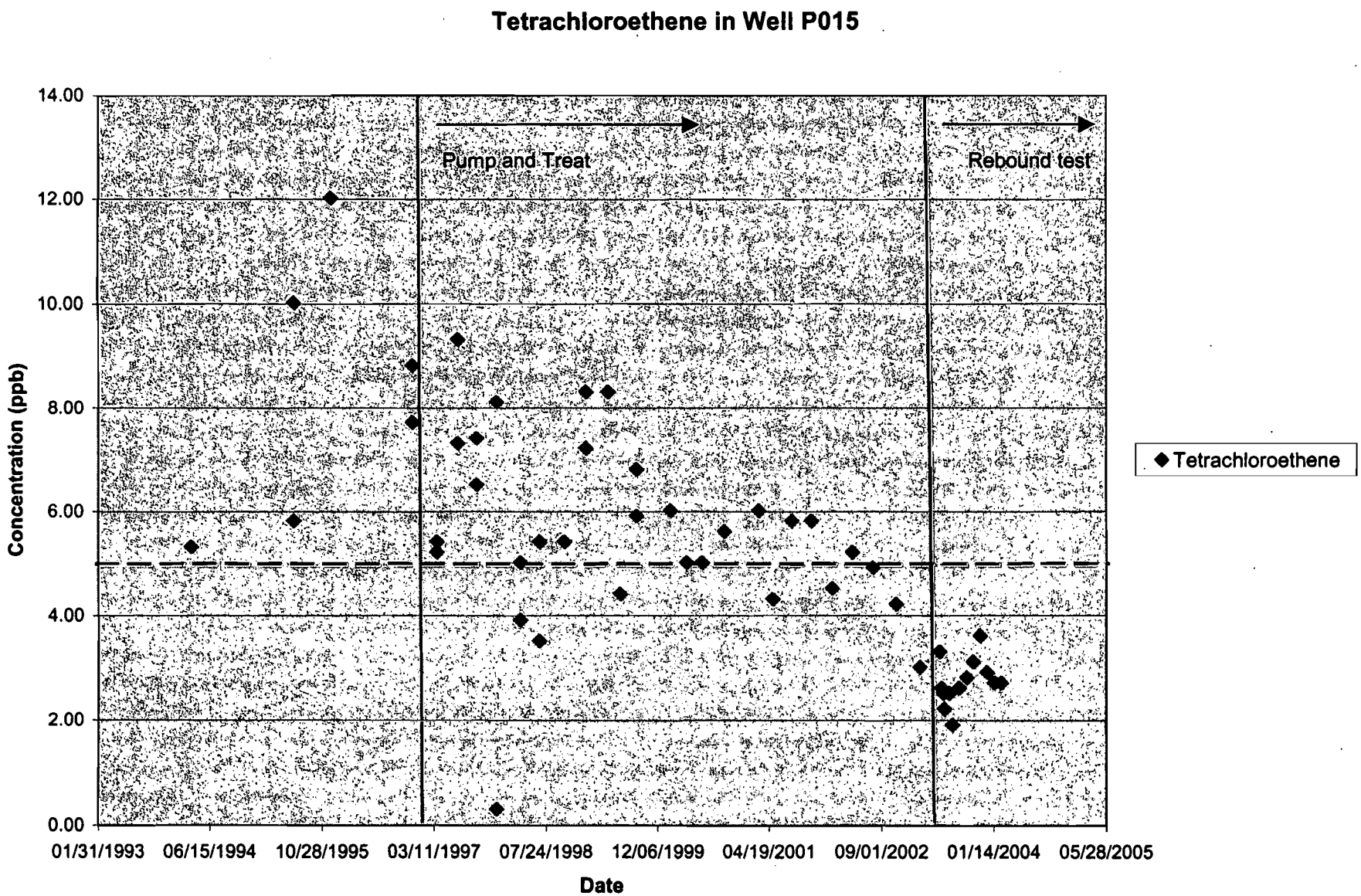
F24

F25


Tetrachloroethene in Well 424
Pump and Treat
MCL = 5 ppb
Concentration (ppb)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Tetrachloroethene

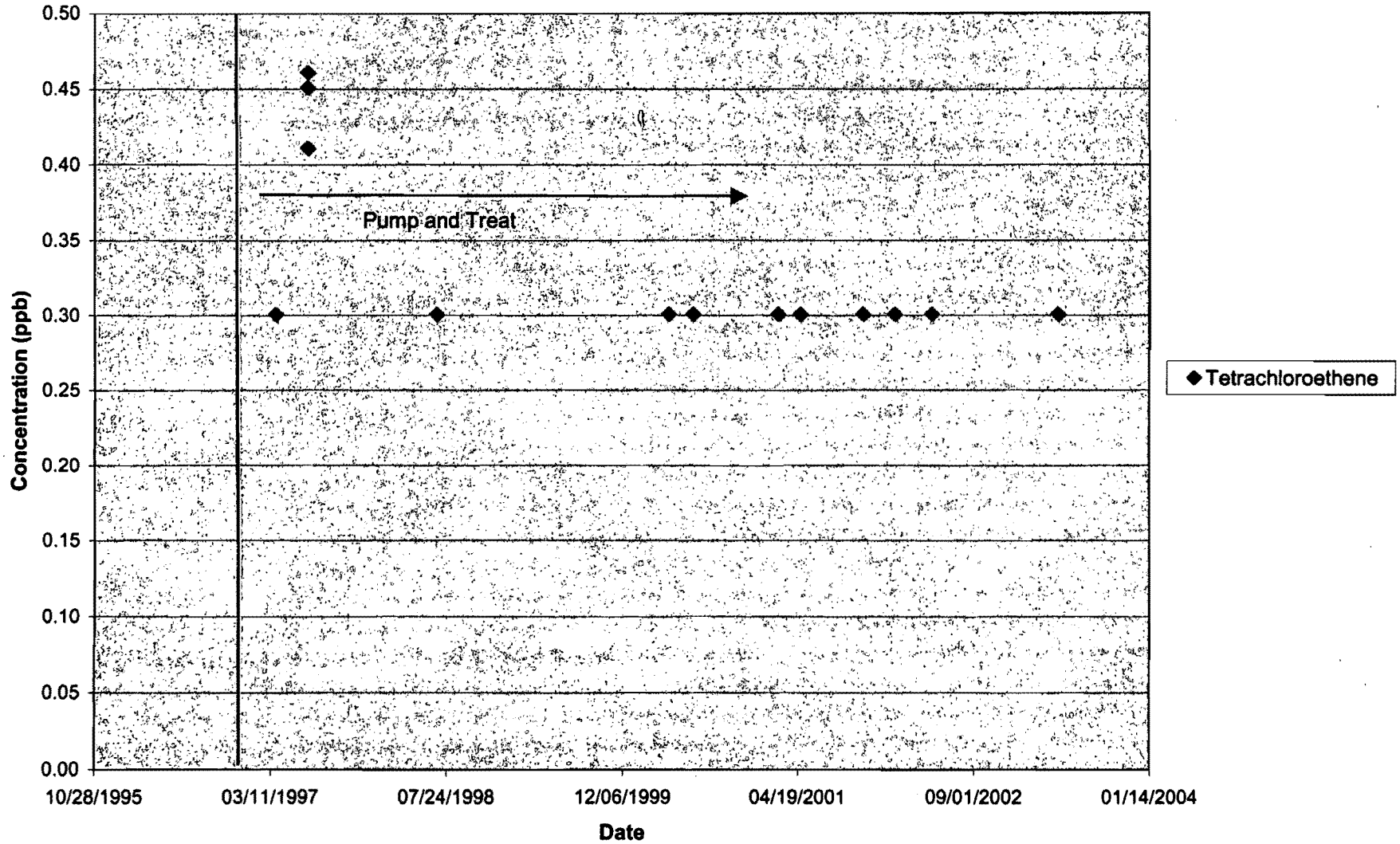

Tetrachloroethene in Well 425
Concentration (ppb)
1.400000
1.200000
1.000000
0.800000
0.600000
0.400000
0.200000
0.000000
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Pump and Treat
MCL = 5 ppb
Rebound test
Tetrachloroethene

F26


Tetrachloroethene in Well P015
Pump and Treat
Rebound test
Concentration (ppb)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

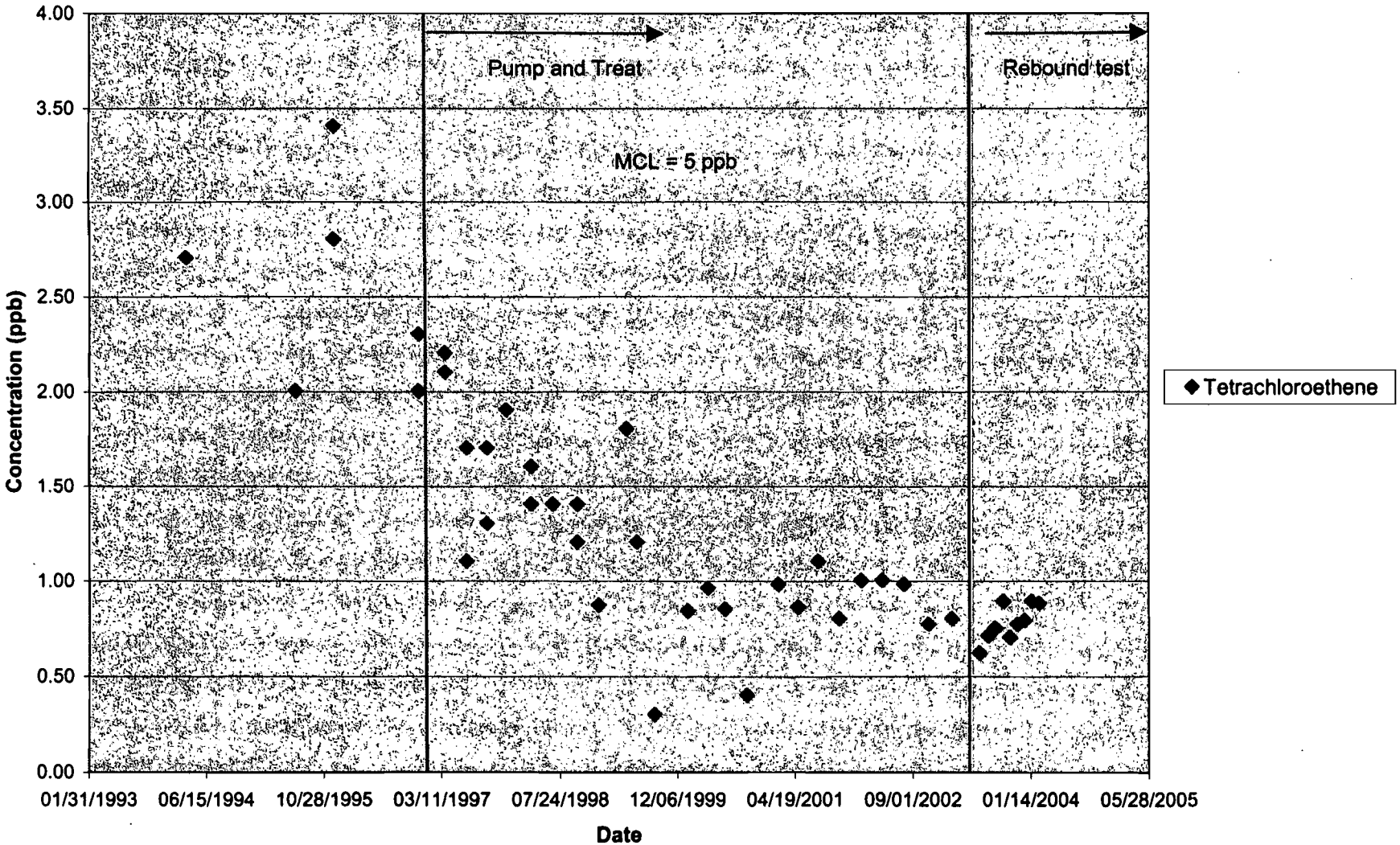
F37

## Tetrachloroethene in Well P025

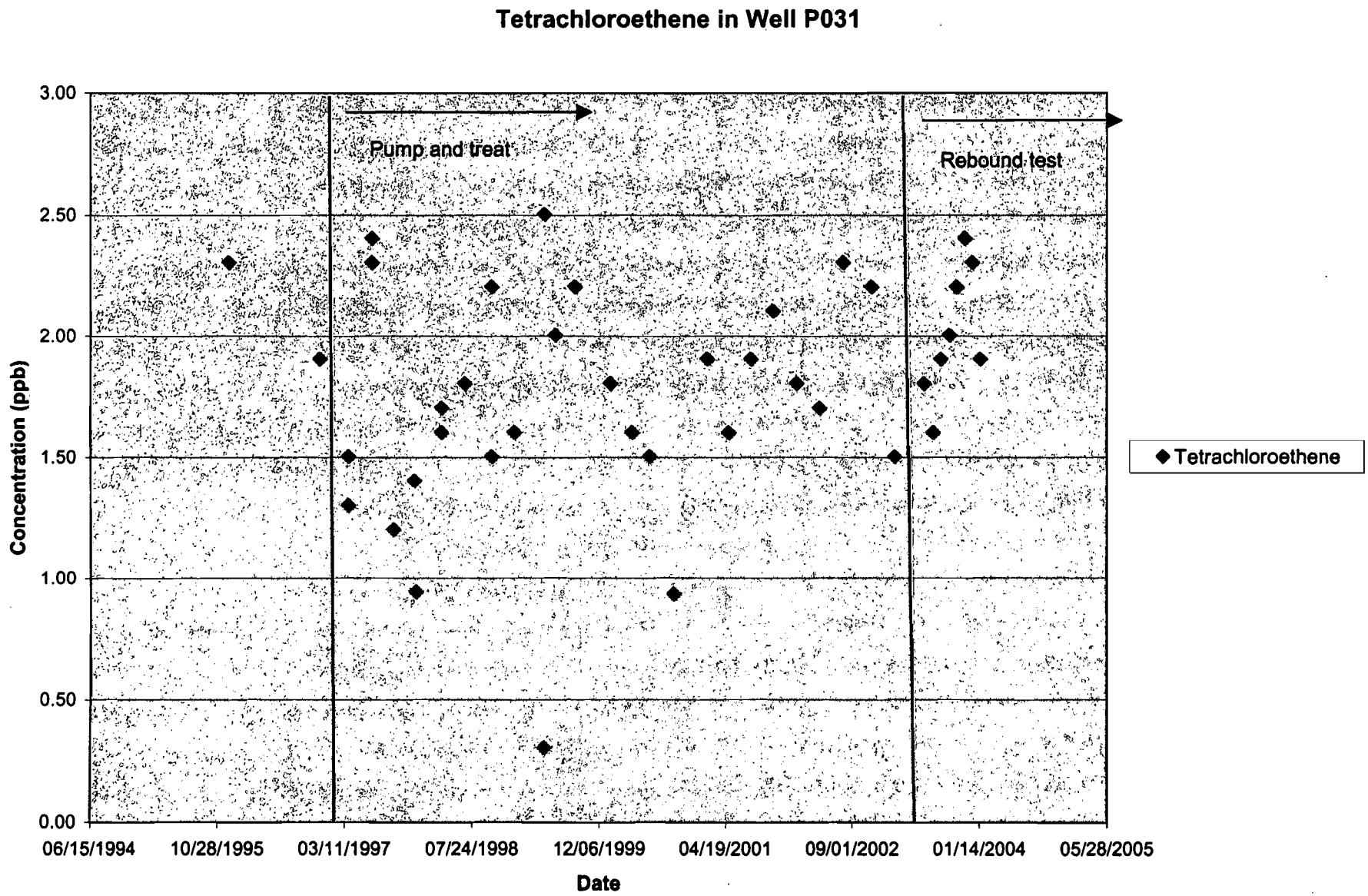



F 28

## Tetrachloroethene in Well P027




F29


Tetrachloroethene in Well P031
Pump and treat
Rebound test
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

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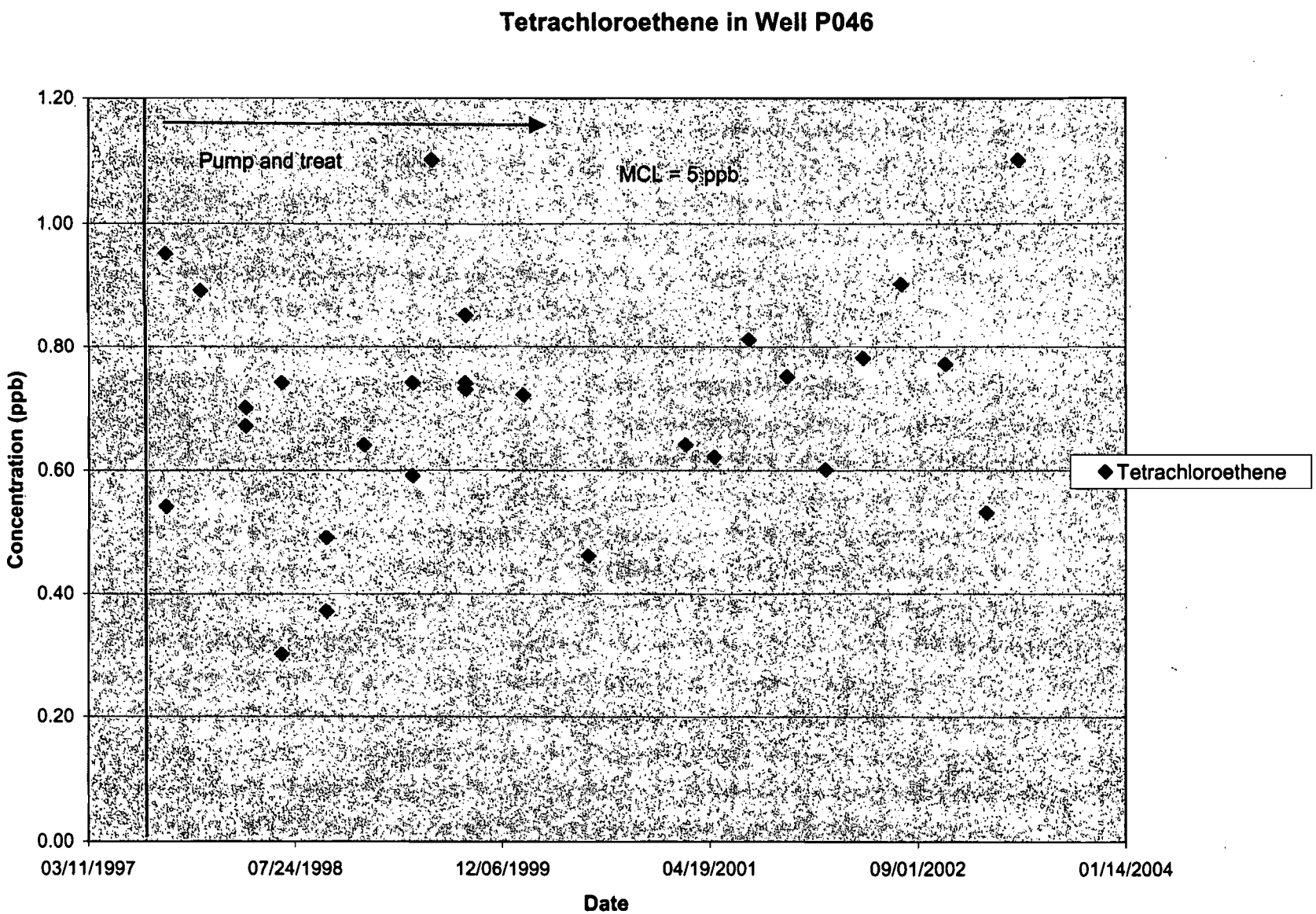
Tetrachloroethene in Well P046
Pump and treat
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date

# Attachment G

## OU-1 VOC Data Collected Subsequent to January 2004

| Well name | Collection_date | Value_name | Measured value | Value units | Lab qualifier | Detection limit |
|---|---|---|---|---|---|---|
| 63 | 20040715 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 63 | 20040715 | Tetrachloroethene | **4.6** | UG/L | | 0.3 |
| 63 | 20040715 | Trichloroethylene (TCE) | **2.7** | UG/L | | 1.2 |
| 63 | 20040715 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 305 | 20040415 | 1,2-cis-Dichloroethene | **2.2** | UG/L | | 1 |
| 305 | 20040415 | Tetrachloroethene | **2.4** | UG/L | | 0.3 |
| 305 | 20040415 | Trichloroethylene (TCE) | **11** | UG/L | | 1.2 |
| 305 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 305 | 20040716 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 305 | 20040716 | Tetrachloroethene | **2** | UG/L | | 0.3 |
| 305 | 20040716 | Trichloroethylene (TCE) | **6.1** | UG/L | | 1.2 |
| 305 | 20040716 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 370 | 20040719 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 370 | 20040719 | Tetrachloroethene | **24** | UG/L | | 0.3 |
| 370 | 20040719 | Trichloroethylene (TCE) | **4.6** | UG/L | | 1.2 |
| 370 | 20040719 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 373 | 20040715 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 373 | 20040715 | Tetrachloroethene | **7.4** | UG/L | | 0.3 |
| 373 | 20040715 | Trichloroethylene (TCE) | **3.7** | UG/L | | 1.2 |
| 373 | 20040715 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 374 | 20040719 | 1,2-cis-Dichloroethene | **6.7** | UG/L | | 1 |
| 374 | 20040719 | Tetrachloroethene | **3** | UG/L | | 0.3 |
| 374 | 20040719 | Trichloroethylene (TCE) | **4** | UG/L | | 1.2 |
| 374 | 20040719 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 379 | 20040707 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 379 | 20040707 | Tetrachloroethene | **0.37** | UG/L | | 0.3 |
| 379 | 20040707 | Trichloroethylene (TCE) | **1.7** | UG/L | | 1.2 |
| 379 | 20040707 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 397 | 20040719 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 397 | 20040719 | Tetrachloroethene | **3.1** | UG/L | | 0.3 |
| 397 | 20040719 | Trichloroethylene (TCE) | **1.3** | UG/L | | 1.2 |
| 397 | 20040719 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 400 | 20040422 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 400 | 20040422 | Tetrachloroethene | 0.3 | UG/L | U | 0.3 |
| 400 | 20040422 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 400 | 20040422 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 400 | 20040713 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 400 | 20040713 | Tetrachloroethene | 0.3 | UG/L | U | 0.3 |
| 400 | 20040713 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 400 | 20040713 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 402 | 20040421 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 402 | 20040421 | Tetrachloroethene | 0.3 | UG/L | U | 0.3 |

| Well name | Collection_date | Value_name | Measured value | Value units | Lab qualifier | Detection limit |
|---|---|---|---|---|---|---|
| 402 | 20040421 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 402 | 20040421 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 402 | 20040713 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 402 | 20040713 | Tetrachloroethene | 0.3 | UG/L | U | 0.3 |
| 402 | 20040713 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 402 | 20040713 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 410 | 20040716 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 410 | 20040716 | Tetrachloroethene | **2.1** | UG/L | | 0.3 |
| 410 | 20040716 | Trichloroethylene (TCE) | **2.7** | UG/L | | 1.2 |
| 410 | 20040716 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 415 | 20040715 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 415 | 20040715 | Tetrachloroethene | **1** | UG/L | | 0.3 |
| 415 | 20040715 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 415 | 20040715 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 416 | 20040415 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 416 | 20040415 | Tetrachloroethene | 0.29 | UG/L | J | 0.3 |
| 416 | 20040415 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 416 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 416 | 20040714 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 416 | 20040714 | Tetrachloroethene | **0.49** | UG/L | | 0.3 |
| 416 | 20040714 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 416 | 20040714 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 417 | 20040415 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 417 | 20040415 | Tetrachloroethene | **0.84** | UG/L | | 0.3 |
| 417 | 20040415 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 417 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 417 | 20040716 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 417 | 20040716 | Tetrachloroethene | **0.73** | UG/L | | 0.3 |
| 417 | 20040716 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 417 | 20040716 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 418 | 20040415 | 1,2-cis-Dichloroethene | **2.1** | UG/L | | 1 |
| 418 | 20040415 | Tetrachloroethene | **2.6** | UG/L | | 0.3 |
| 418 | 20040415 | Trichloroethylene (TCE) | **11** | UG/L | | 1.2 |
| 418 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 418 | 20040716 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 418 | 20040716 | Tetrachloroethene | **2.4** | UG/L | | 0.3 |
| 418 | 20040716 | Trichloroethylene (TCE) | **8.4** | UG/L | | 1.2 |
| 418 | 20040716 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 419 | 20040415 | 1,2-cis-Dichloroethene | 0.9 | UG/L | J | 1 |
| 419 | 20040415 | Tetrachloroethene | **5.3** | UG/L | | 0.3 |
| 419 | 20040415 | Trichloroethylene (TCE) | **11** | UG/L | | 1.2 |
| 419 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 419 | 20040716 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |

| Well name | Collection_date | Value_name | Measured value | Value units | Lab qualifier | Detection limit |
|---|---|---|---|---|---|---|
| 419 | 20040716 | Tetrachloroethene | **5.2** | UG/L | | 0.3 |
| 419 | 20040716 | Trichloroethylene (TCE) | **7.9** | UG/L | | 1.2 |
| 419 | 20040716 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 423 | 20040714 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 423 | 20040714 | Tetrachloroethene | **1.8** | UG/L | | 0.3 |
| 423 | 20040714 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 423 | 20040714 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 424 | 20040415 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 424 | 20040415 | Tetrachloroethene | **0.39** | UG/L | | 0.3 |
| 424 | 20040415 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 424 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| 424 | 20040716 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| 424 | 20040716 | Tetrachloroethene | **0.35** | UG/L | | 0.3 |
| 424 | 20040716 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| 424 | 20040716 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P015 | 20040415 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P015 | 20040415 | Tetrachloroethene | **2.5** | UG/L | | 0.3 |
| P015 | 20040415 | Trichloroethylene (TCE) | **5.6** | UG/L | | 1.2 |
| P015 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P015 | 20040719 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P015 | 20040719 | Tetrachloroethene | **2.3** | UG/L | | 0.3 |
| P015 | 20040719 | Trichloroethylene (TCE) | **4.6** | UG/L | | 1.2 |
| P015 | 20040719 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P027 | 20040416 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P027 | 20040416 | Tetrachloroethene | **0.61** | UG/L | | 0.3 |
| P027 | 20040416 | Trichloroethylene (TCE) | 1.1 | UG/L | J | 1.2 |
| P027 | 20040416 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P027 | 20040715 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P027 | 20040715 | Tetrachloroethene | **0.73** | UG/L | | 0.3 |
| P027 | 20040715 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| P027 | 20040715 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P031 | 20040416 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P031 | 20040416 | Tetrachloroethene | **1.3** | UG/L | | 0.3 |
| P031 | 20040416 | Trichloroethylene (TCE) | **1.2** | UG/L | | 1.2 |
| P031 | 20040416 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P031 | 20040719 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P031 | 20040719 | Tetrachloroethene | **1.4** | UG/L | | 0.3 |
| P031 | 20040719 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| P031 | 20040719 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P033 | 20040420 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P033 | 20040420 | Tetrachloroethene | 0.3 | UG/L | U | 0.3 |
| P033 | 20040420 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| P033 | 20040420 | Vinyl Chloride | 1 | UG/L | U | 1 |

| Well name | Collection_date | Value_name | Measured value | Value units | Lab qualifier | Detection limit |
|---|---|---|---|---|---|---|
| P033 | 20040713 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P033 | 20040713 | Tetrachloroethene | 0.3 | UG/L | U | 0.3 |
| P033 | 20040713 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| P033 | 20040713 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P044 | 20040715 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P044 | 20040715 | Tetrachloroethene | 0.3 | UG/L | U | 0.3 |
| P044 | 20040715 | Trichloroethylene (TCE) | 1.2 | UG/L | U | 1.2 |
| P044 | 20040715 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P046 | 20040415 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P046 | 20040415 | Tetrachloroethene | **0.54** | UG/L | | 0.3 |
| P046 | 20040415 | Trichloroethylene (TCE) | **5.2** | UG/L | | 1.2 |
| P046 | 20040415 | Vinyl Chloride | 1 | UG/L | U | 1 |
| P046 | 20040716 | 1,2-cis-Dichloroethene | 1 | UG/L | U | 1 |
| P046 | 20040716 | Tetrachloroethene | **0.58** | UG/L | | 0.3 |
| P046 | 20040716 | Trichloroethylene (TCE) | **5** | UG/L | | 1.2 |
| P046 | 20040716 | Vinyl Chloride | 1 | UG/L | U | 1 |