

LEGEND

- ▲ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
- JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Location of Production Contour (Tetrachloroethene)
- Maximum Contaminant Level (5.0 ug/L)
- MCL

Note: All Concentrations in ug/L.
 J: Indicates an Estimated Value
 NA: Sample not Analyzed
 NS: Well/Well Screen not Sampled
 ---: Analyte not Detected Above Practical Quantitation Limit

MW-18

1: SCREEN 1	---
2: SCREEN 2	---
3: SCREEN 3	---
4: SCREEN 4	---
5: SCREEN 5	---

MW-19

4:	2.3
5:	4.2

MW-20

3:	0.31
4:	---

MW-21

4:	4.5
5:	8.5

MW-22

4:	---
5:	---

MW-23

4:	---
5:	---

MW-24

4:	---
5:	---

LAWC-1

7/15/04	0.6
8/3/04	---
9/7/04	---

LAWC-2

7/15/04	---
8/3/04	---
9/7/04	---

LAWC-3

7/15/04	---
8/3/04	---
9/7/04	---

LAWC-4

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-5

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-6

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-7

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-8

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-9

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-10

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-11

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-12

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-13

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-14

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-15

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-16

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-17

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-18

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-19

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-20

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-21

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-22

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-23

7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

LAWC-24

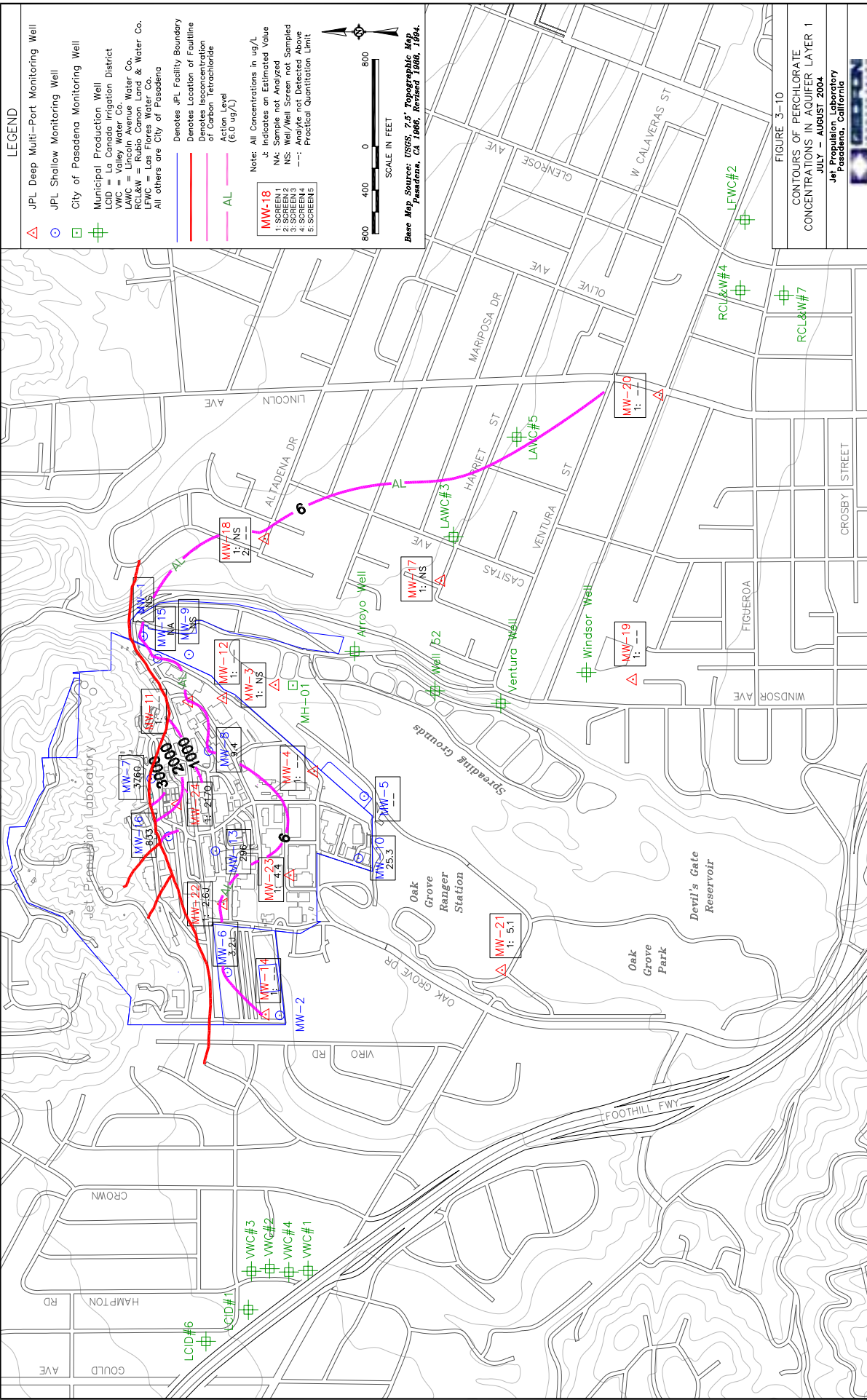
7/19/04	5.4
7/26/04	6.0
8/2/04	5.4
8/9/04	5.4
8/16/04	5.6

Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1986, Revised 1988, 1994.



FIGURE 3-9
 CONTOURS OF TETRACHLOROETHENE
 CONCENTRATIONS IN AQUIFER LAYER 3
 JULY - AUGUST 2004
 JPL Proprietary Laboratory
 Pasadena, California





LEGEND

- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
- LADWP - Loma Linda Irrigation District
- LADWP - Lincoln Avenue Water Co.
- RCL&W - Rubio Canon Land & Water Co.
- LFMC - Las Flores Water Co.
- All others are City of Pasadena
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Location of Concentration Contour (Perchlorate)
- Action Level
- AL (6.0 ug/L)

Note: All Concentrations in ug/L
 J: Indicates an Estimated Value
 NA: Sample not Analyzed
 NS: Well/Well Screen not Sampled
 ---: Analyte not Detected Above Practical Quantitation Limit

- MW-18**
 1: SCREEN 1
 2: SCREEN 2
 3: SCREEN 3
 4: SCREEN 4
 5: SCREEN 5

Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1986, Revised 1986, 1994.

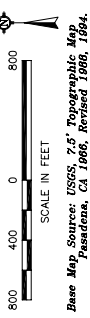
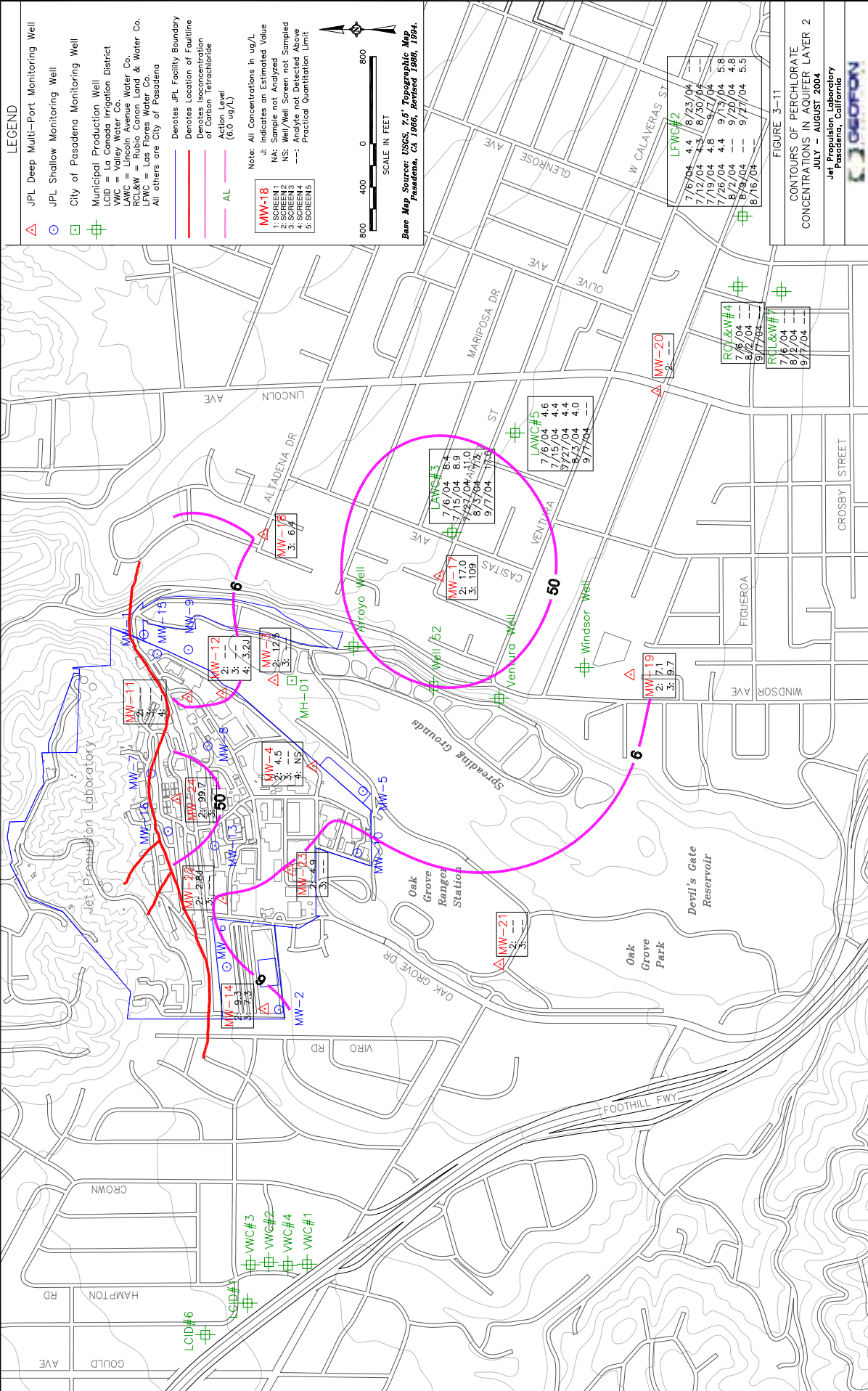
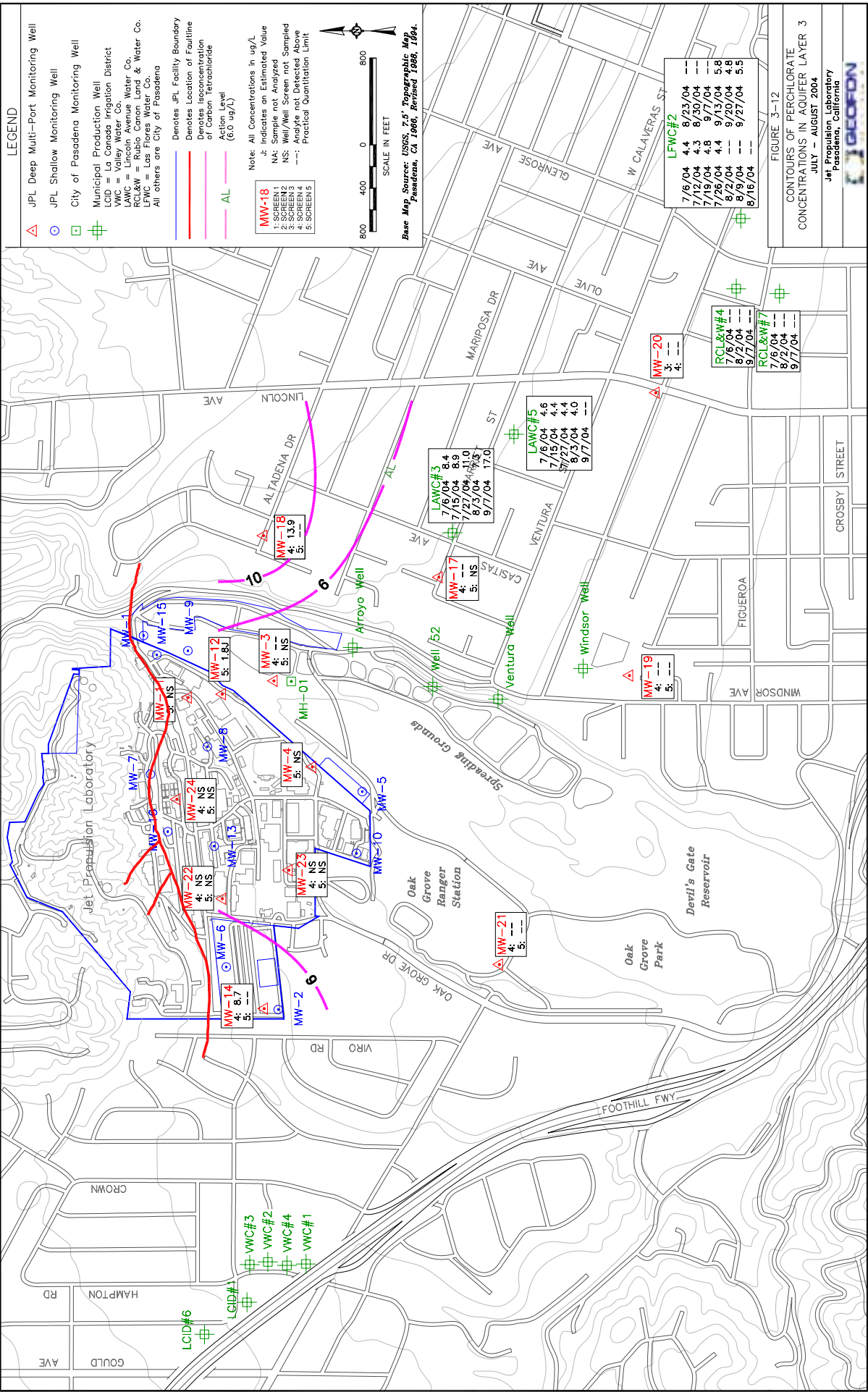


FIGURE 3-10
 CONTOURS OF PERCHLORATE
 CONCENTRATIONS IN AQUIFER LAYER 1
 JULY - AUGUST 2004
 Jet Propulsion Laboratory
 Pasadena, California







LFWC#2

7/6/04	4.4	8/23/04	---
7/12/04	4.3	8/30/04	---
7/19/04	4.8	9/7/04	---
7/26/04	4.4	9/13/04	5.8
8/2/04	---	9/20/04	4.8
8/9/04	---	9/27/04	5.5
8/16/04	---	---	---

LAWC#3

7/6/04	8.4	---	---
7/15/04	4.4	---	---
7/27/04	8.9	---	---
8/3/04	---	---	---
8/13/04	---	---	---
9/7/04	17.0	---	---

LAWC#5

7/6/04	4.6	---	---
7/15/04	4.4	---	---
7/27/04	4.4	---	---
8/3/04	4.0	---	---
8/13/04	4.0	---	---
9/7/04	---	---	---

MW-20

3: ---	---
4: ---	---

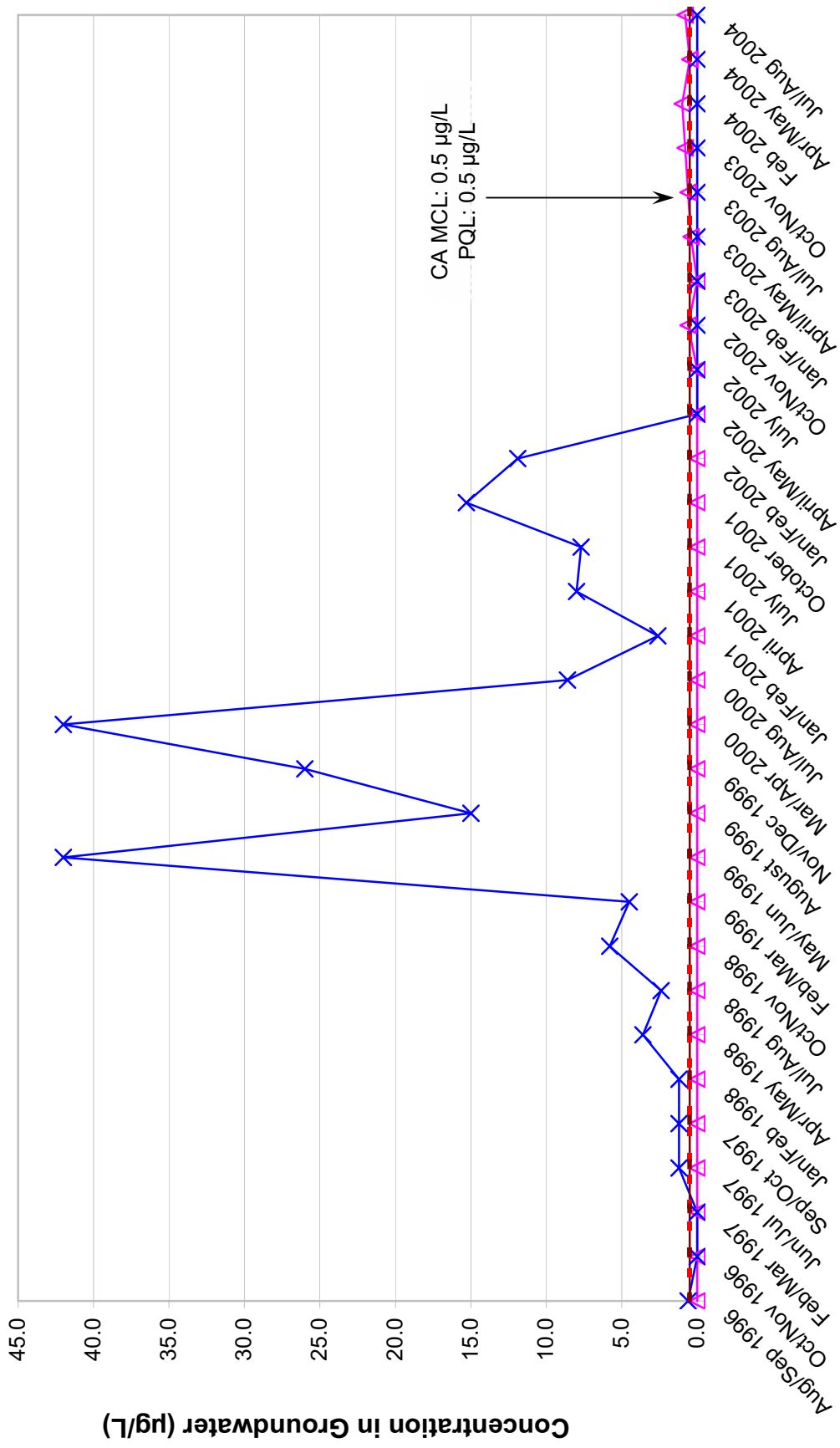
RCL&W#4

7/6/04	---	---	---
8/2/04	---	---	---
9/7/04	---	---	---

RCL&W#7

7/6/04	---	---	---
8/2/04	---	---	---
9/7/04	---	---	---

FIGURE 3-12
 CONTOURS OF PERCHLORATE
 CONCENTRATIONS IN AQUIFER LAYER 3
 JULY - AUGUST 2004
 Jet Propulsion Laboratory
 Pasadena, California



Sampling Time

Legend

- △— Screen 2
- x— Screen 3
- PQL
- - - CA MCL

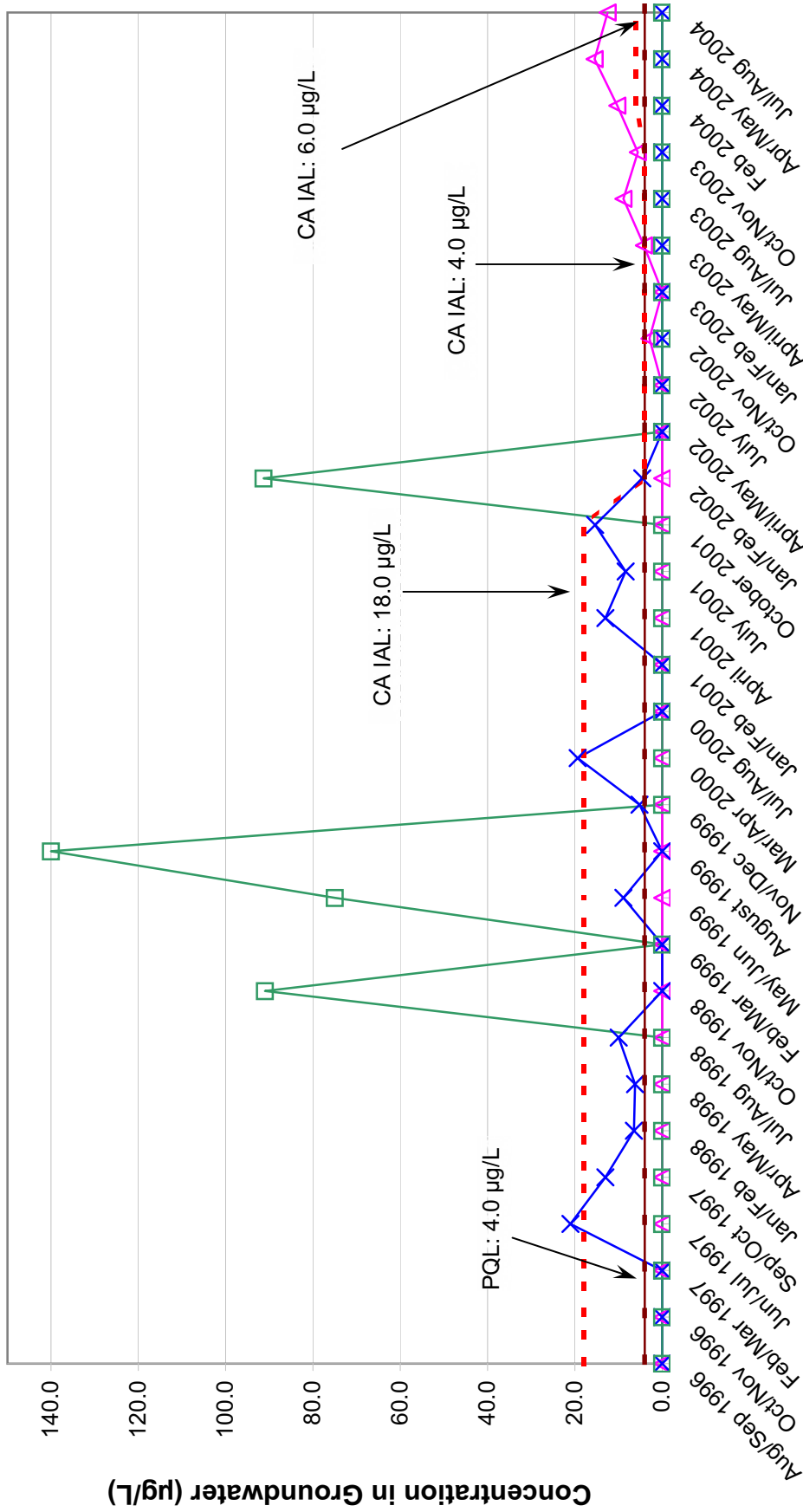
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-13

**CARBON TETRACHLORIDE DETECTED AT MW-3
 FROM AUG/SEP 1996 TO JUL/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

FIGURE 3-14

**PERCHLORATE DETECTED AT MW-3
FROM AUG/SEP 1996 TO JULY/AUG 2004**

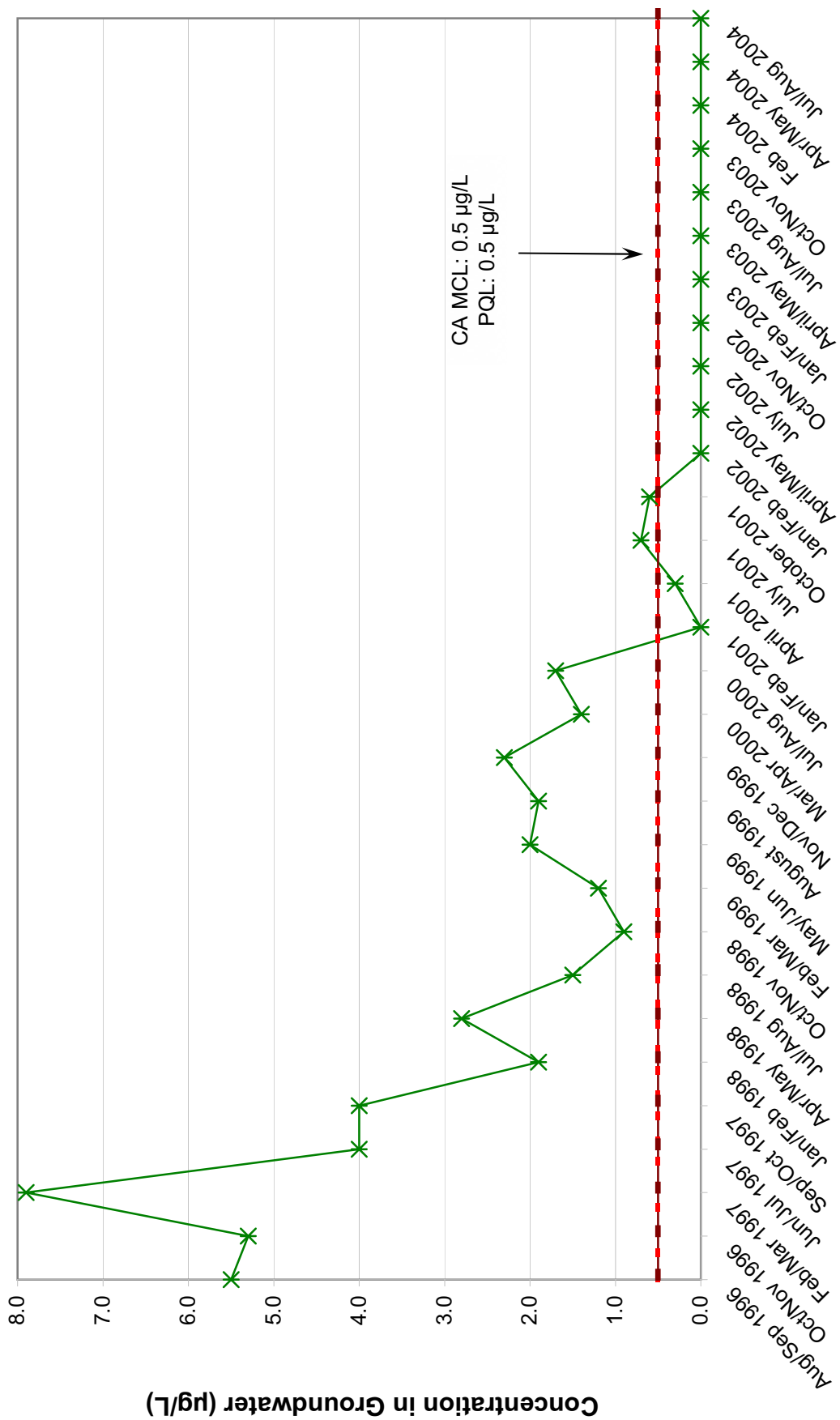
Legend

- △— Screen 2
- x— Screen 3
- Screen 5
- PQL
- x— CA IAL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

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Sampling Time

Legend

- * Screen 2
- PQL
- - - CA MCL

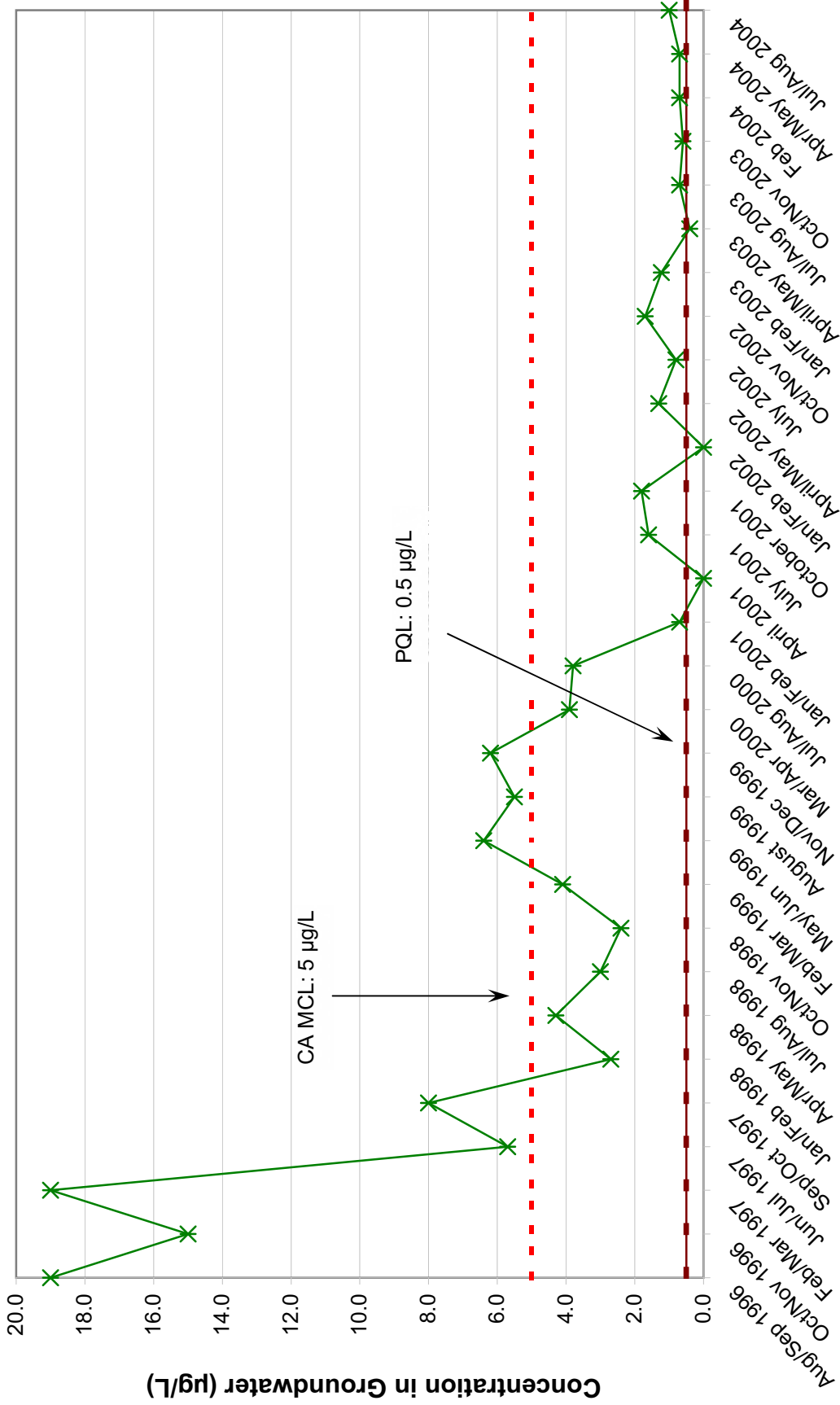
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-15

**CARBON TETRACHLORIDE DETECTED AT MW-4
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

- * Screen 2
- PQL
- - - CA MCL

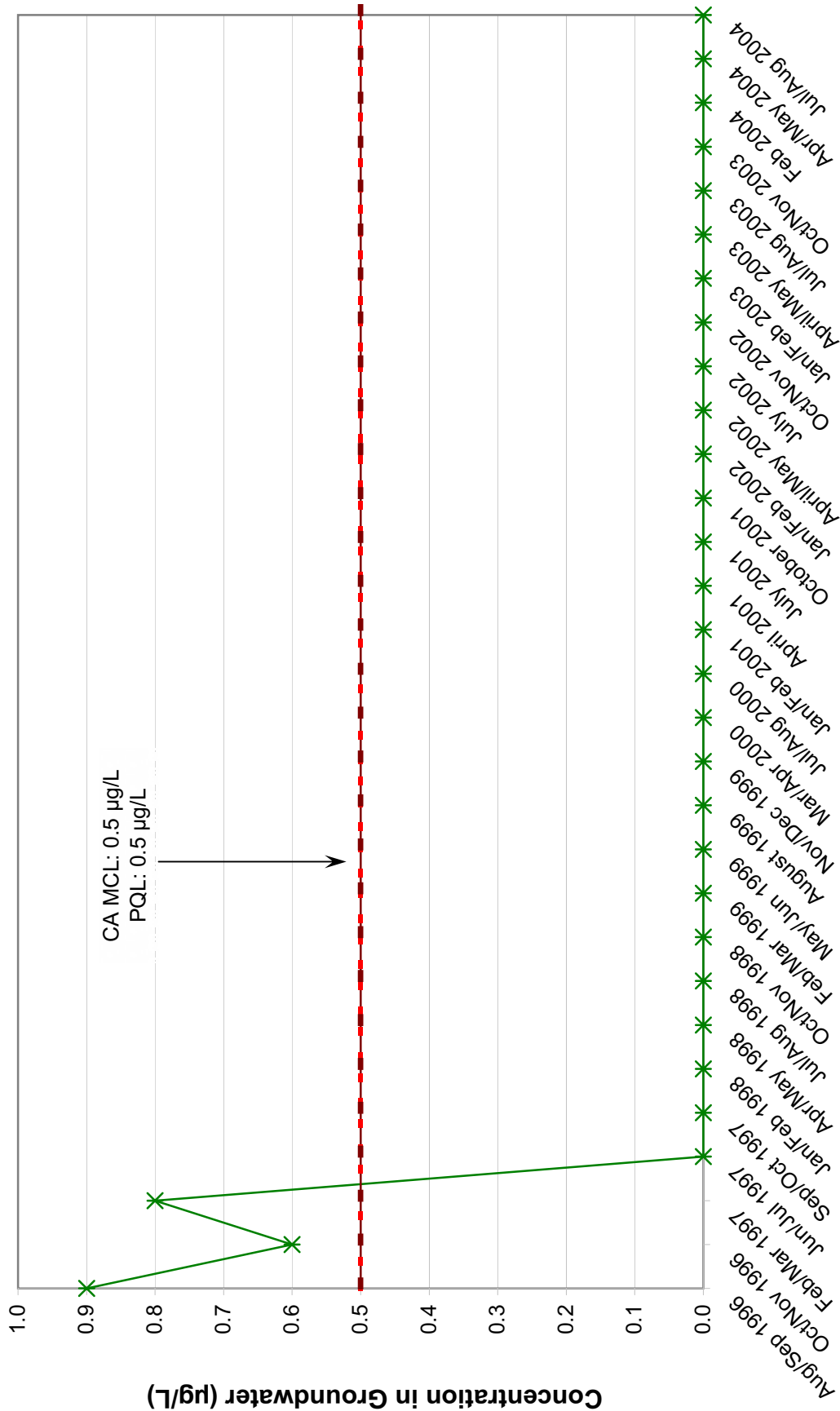
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-16

**TRICHLOROETHENE DETECTED AT MW-4
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

- * Screen 2
- PQL
- - - CA MCL

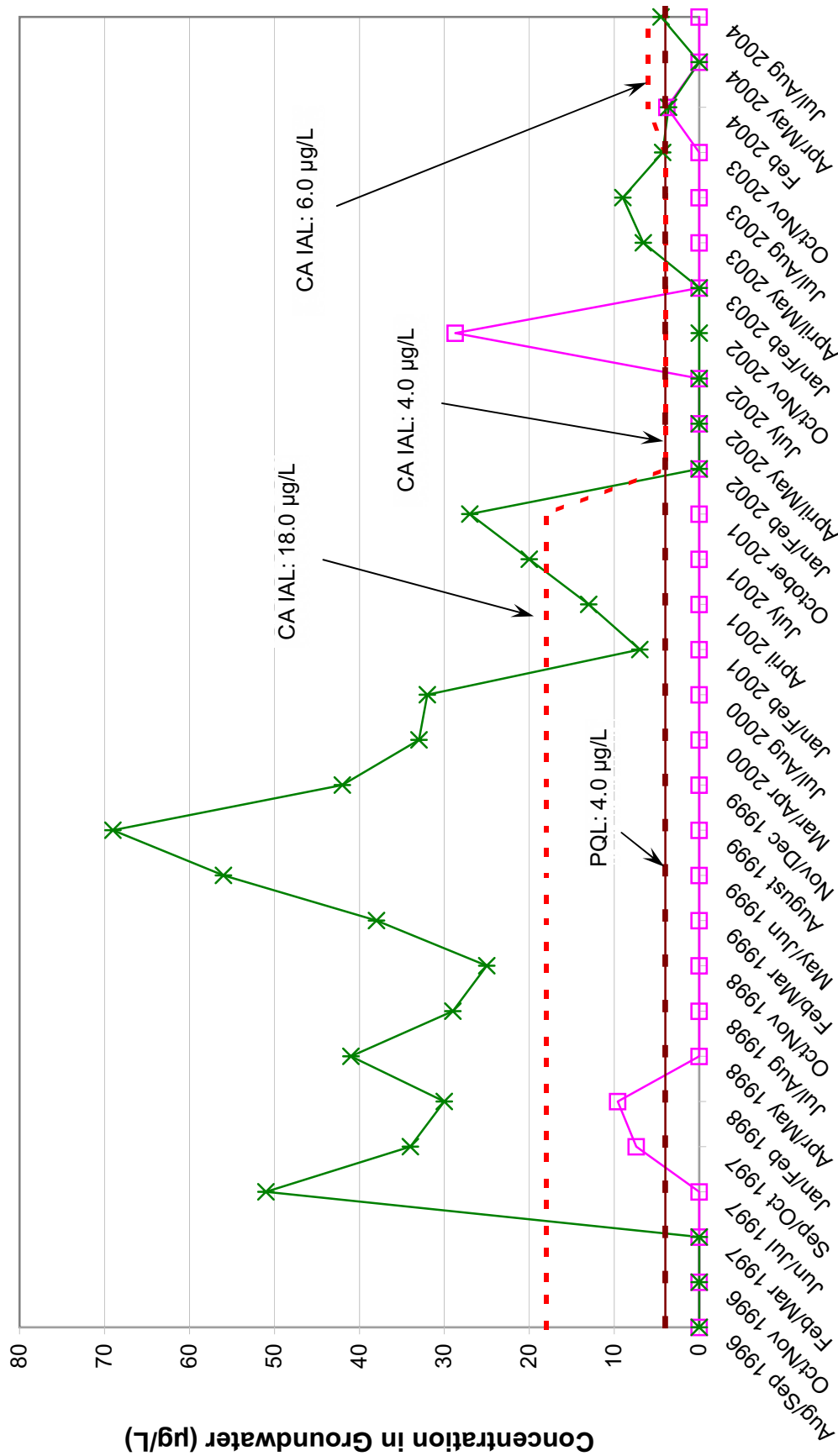
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-17

**1, 2-DCA DETECTED AT MW-4
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
Pasadena, California





Sampling Time

Legend

- Screen 1
- * Screen 2
- PQL
- - - CA IAL

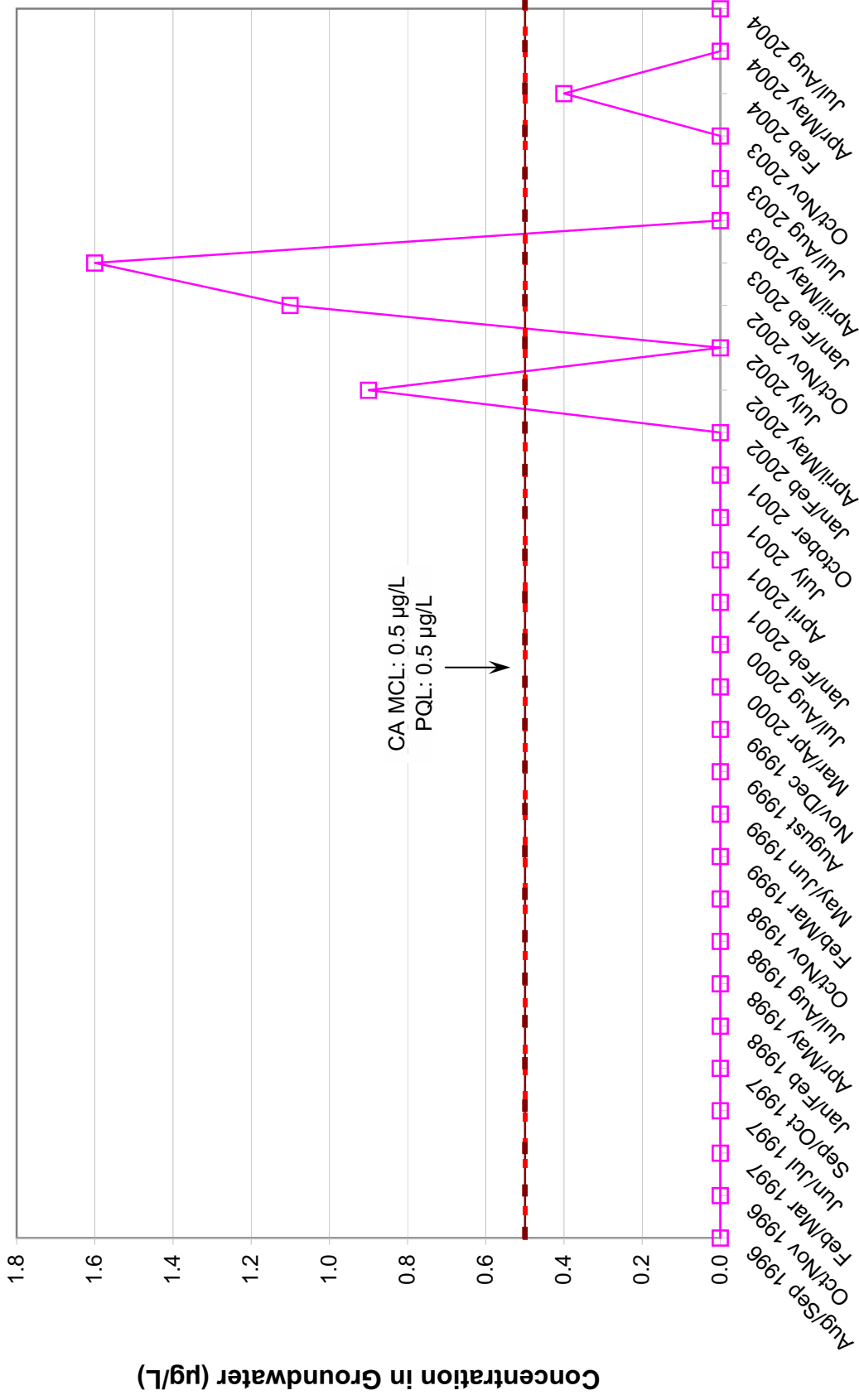
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-18

**PERCHLORATE DETECTED AT MW-4
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

- Shallow Well
- PQL
- - - CA IAL

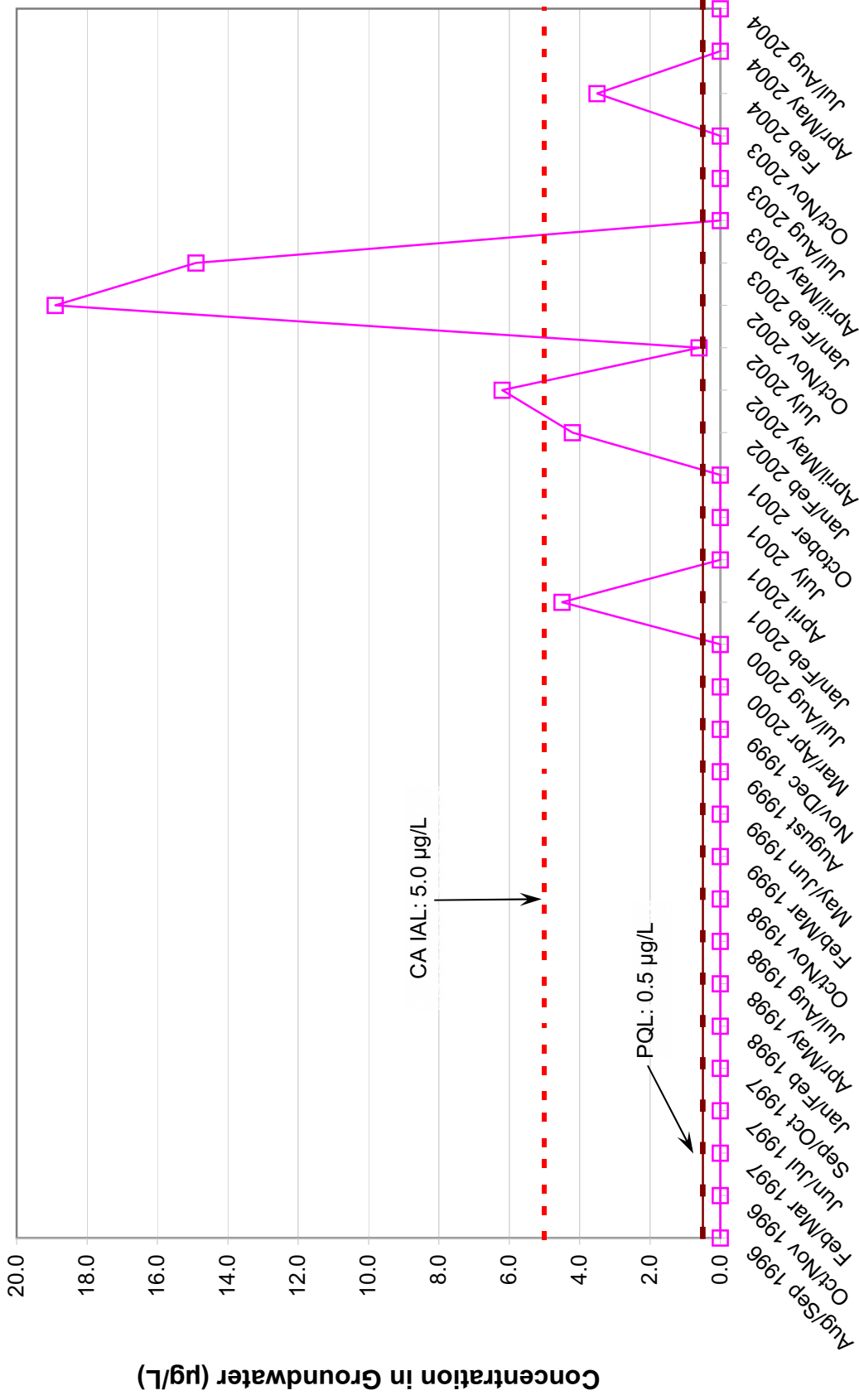
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-19

**CARBON TETRACHLORIDE DETECTED AT MW-5
FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Pasadena, California





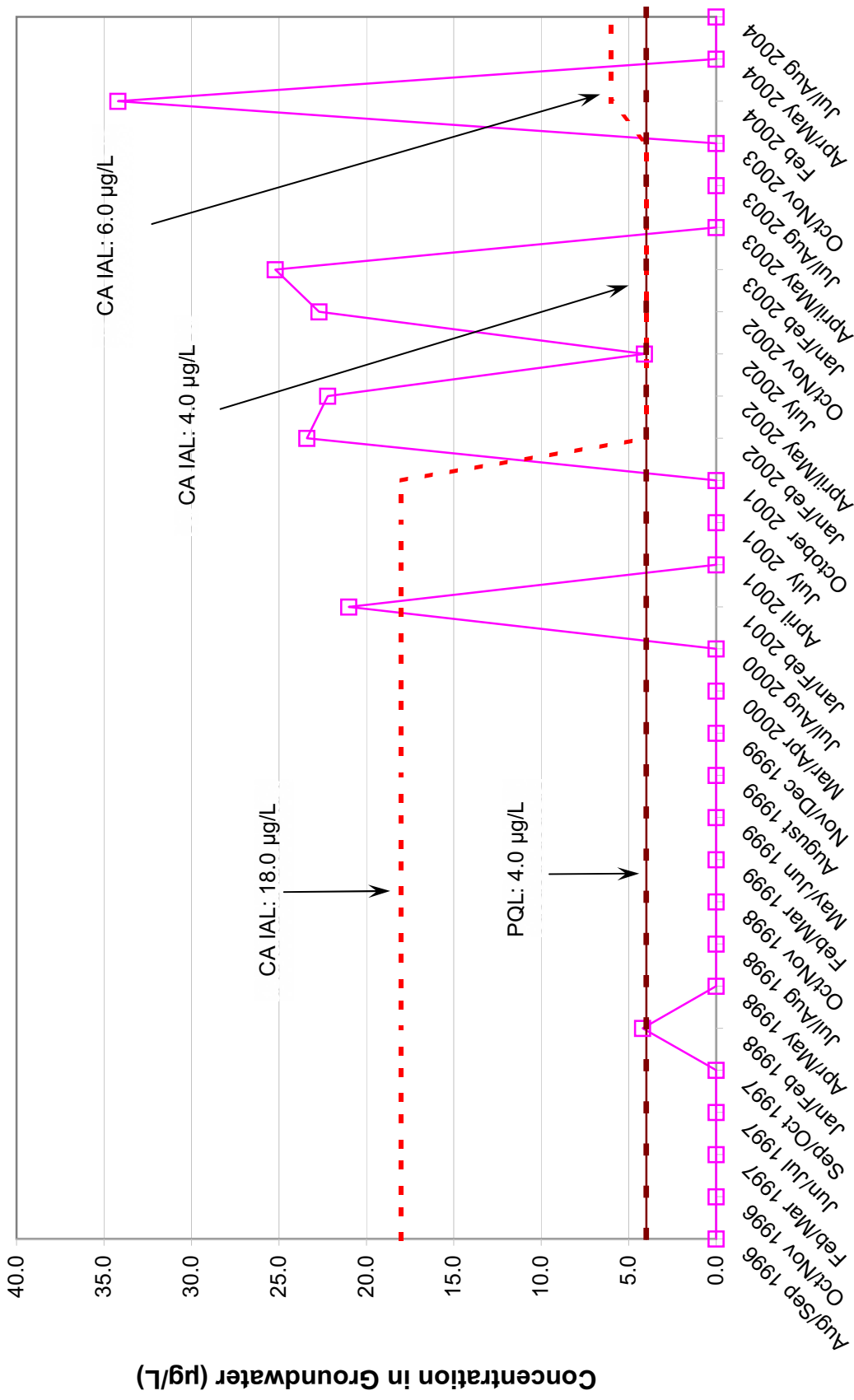
Sampling Time

Legend

- Shallow Well
- PQL
- - - CA IAL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-20
TRICHLOROETHENE DETECTED AT MW-5
FROM AUG/SEP 1996 TO JULY/AUG 2004



Sampling Time

Legend

- Shallow Well
- PQL
- - - CA IAL

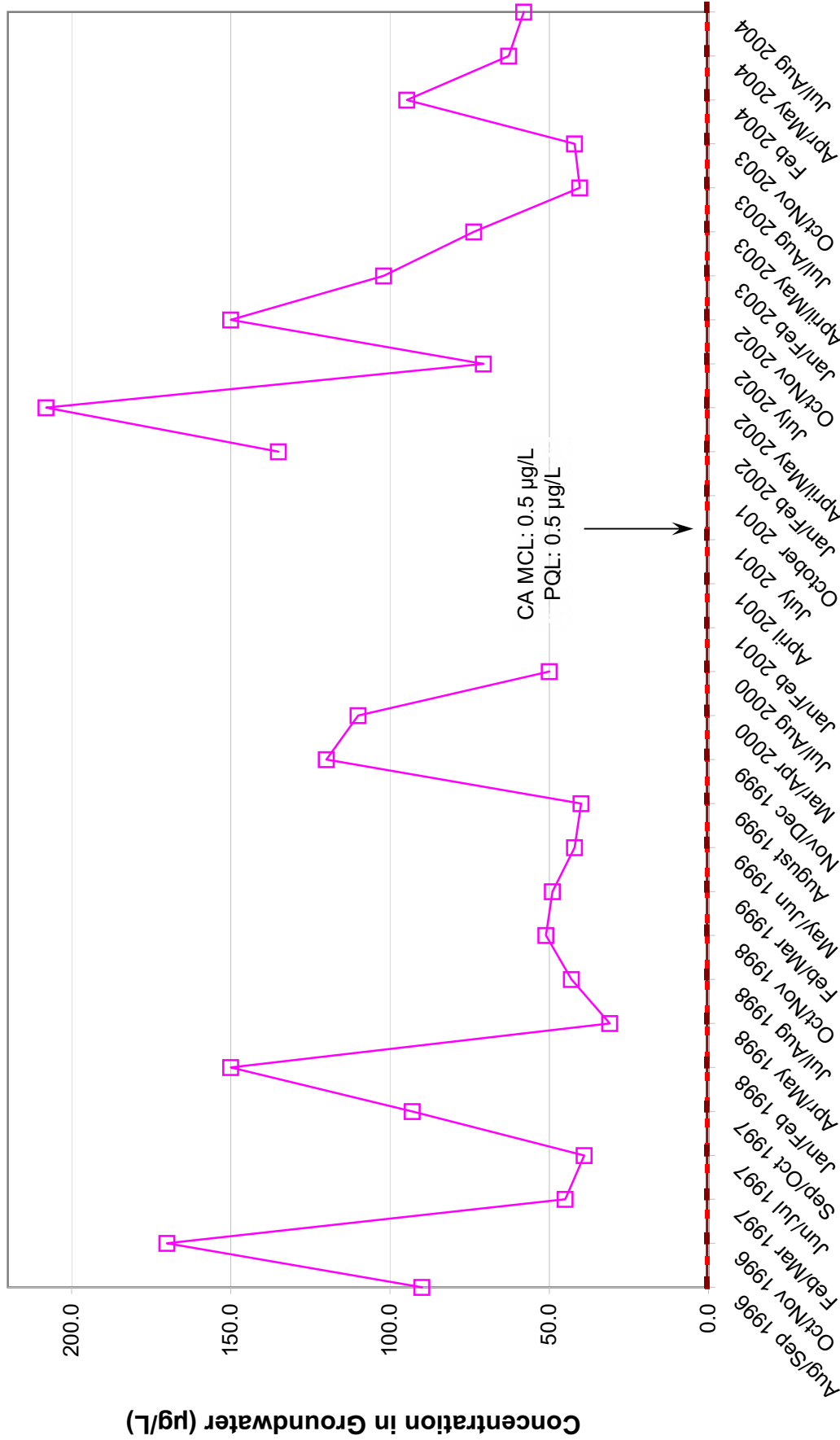
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-21

**PERCHLORATE DETECTED AT MW-5
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

FIGURE 3-22
CARBON TETRACHLORIDE DETECTED AT MW-7
FROM AUG/SEP 1996 TO JULY/AUG 2004

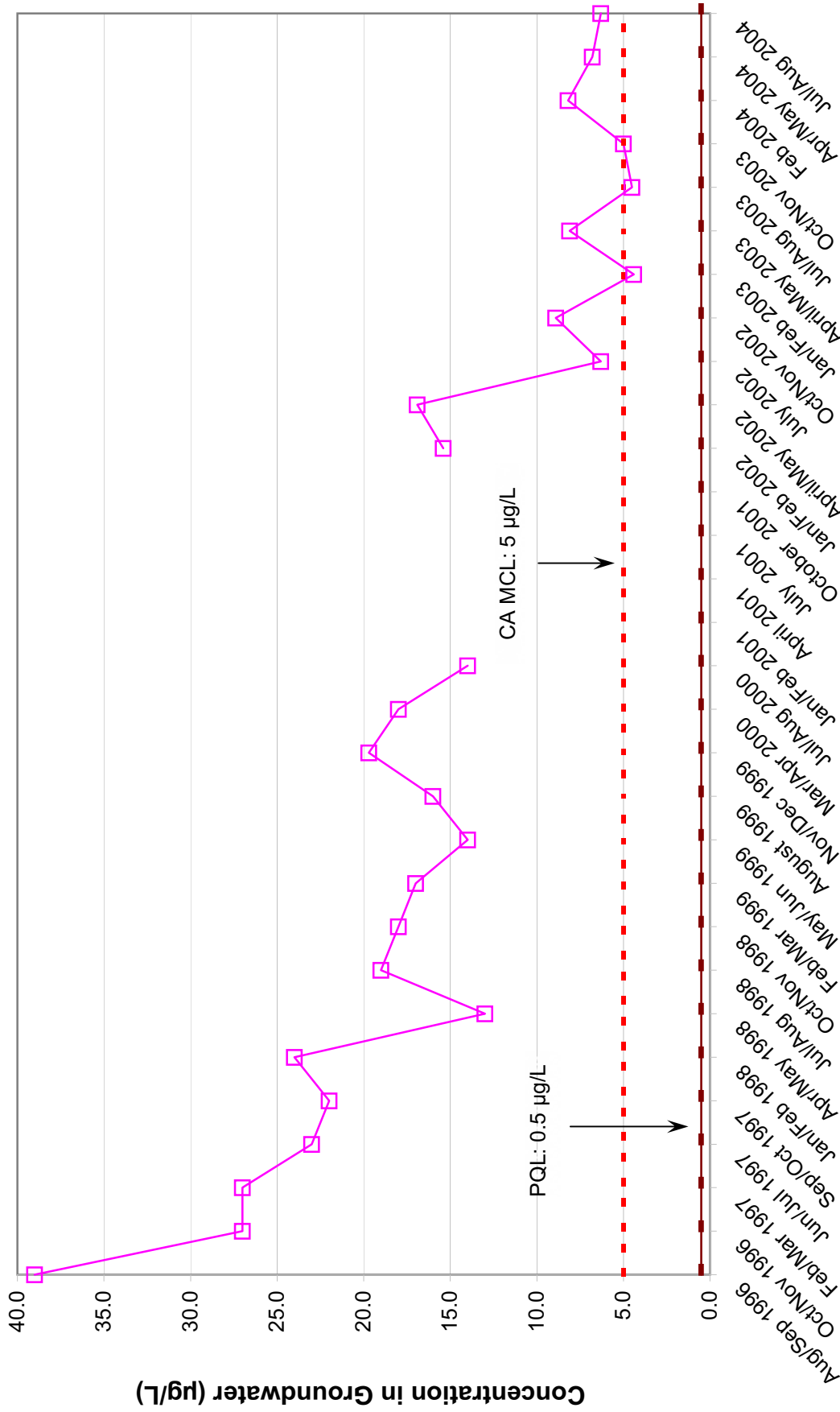
Legend

- Shallow Well
- PQL
- CA MCL

No sample was collected during Jan/Feb, April, July, and October 2001 events due to the ongoing Pilot Test at MW-7 (Reference US Filter Pilot Test Report for current water quality data). Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports. Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

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Sampling Time

Legend

- Shallow Well
- PQL
- - - CA MCL

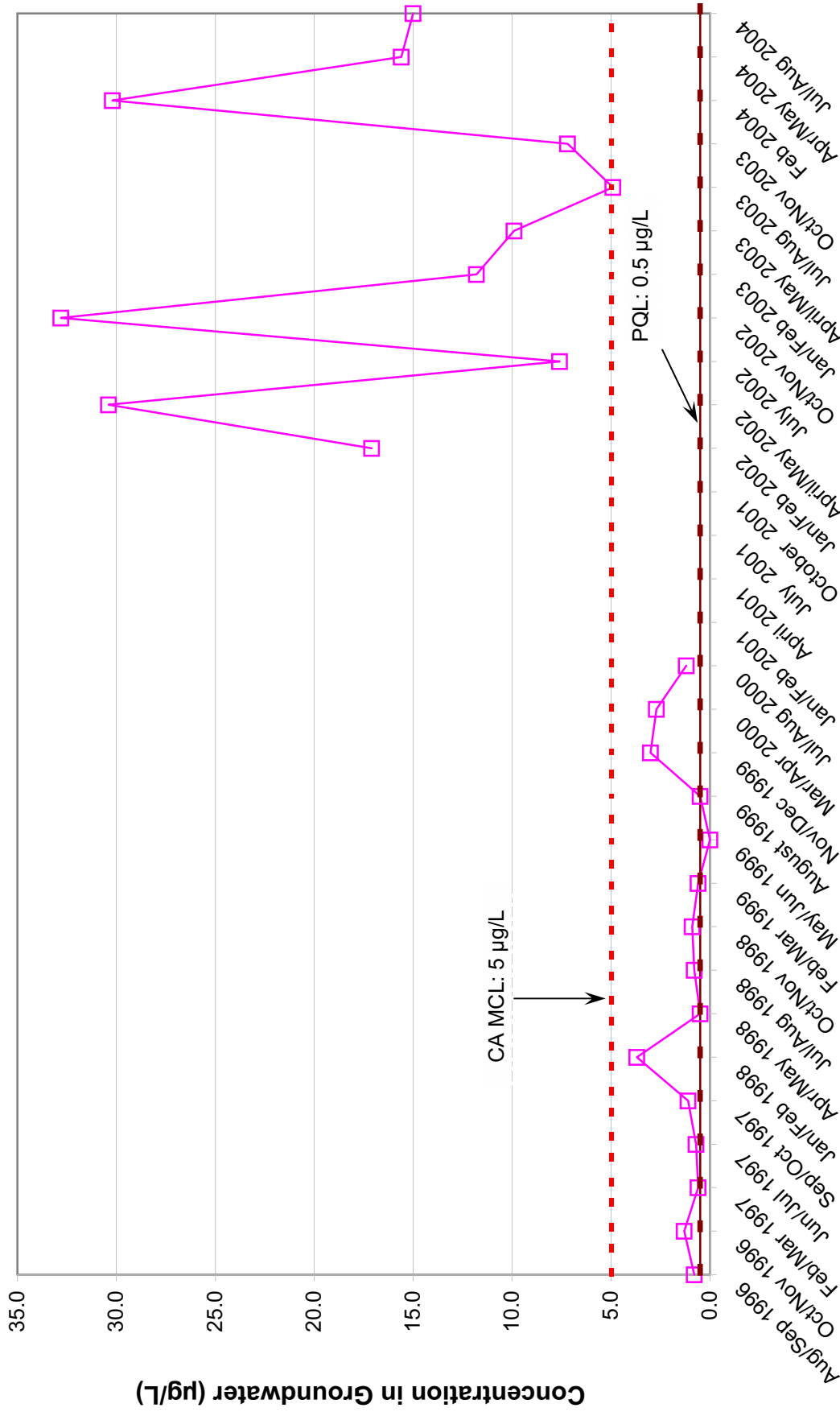
No sample was collected during Jan/Feb, April, July, and October 2001 events due to the ongoing Pilot Test at MW-7 (Reference US Filter Pilot Test Report for current water quality data). Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports. Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-23

**TRICHLOROETHENE DETECTED AT MW-7
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
Pasadena, California





Sampling Time

Legend

- Shallow Well
- PQL
- - - CA MCL

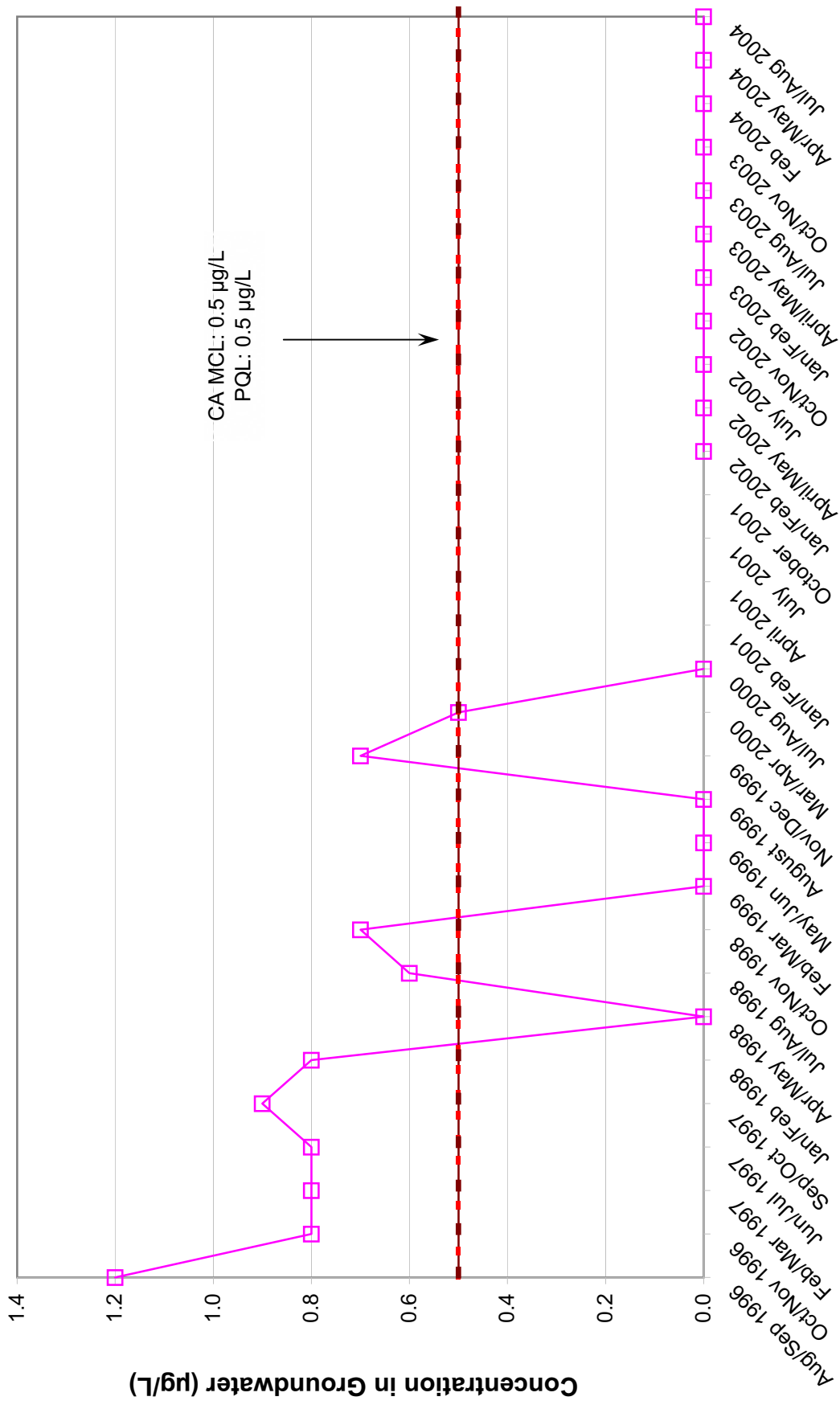
No sample was collected during Jan/Feb, April, July, and October 2001 events due to the ongoing Pilot Test at MW-7 (Reference US Filter Pilot Test Report for current water quality data). Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports. Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-24

**TETRACHLOROETHENE DETECTED AT MW-7
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
Pasadena, California





CA MCL: 0.5 µg/L
 PQL: 0.5 µg/L

Sampling Time

Legend

- Shallow Well
- PQL
- - - CA MCL

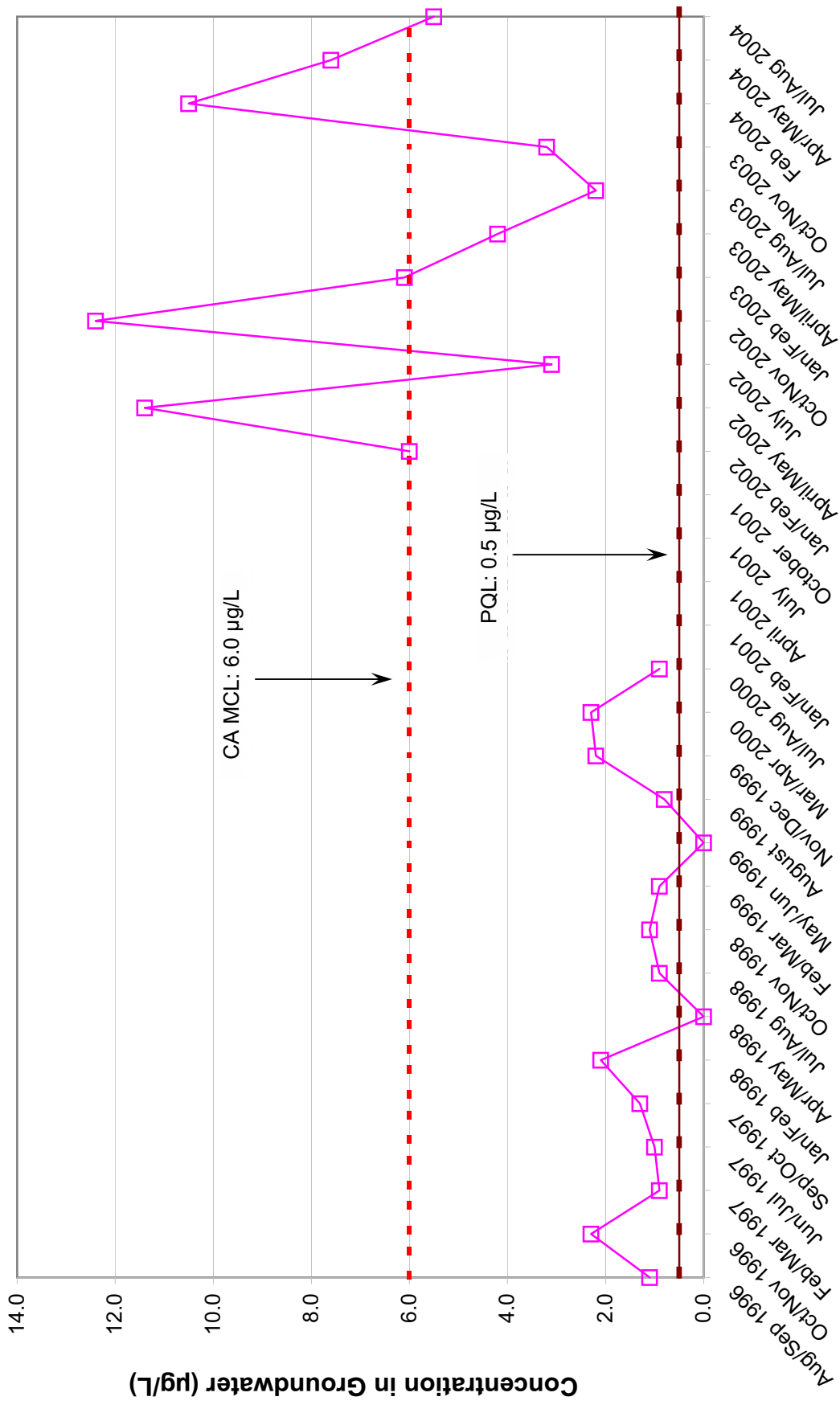
No sample was collected during Jan/Feb, April, July, and October 2001 events due to the ongoing Pilot Test at MW-7 (Reference US Filter Pilot Test Report for current water quality data).
 Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-25

**1,2-DCA DETECTED AT MW-7
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

- Shallow Well
- PQL
- - - CA MCL

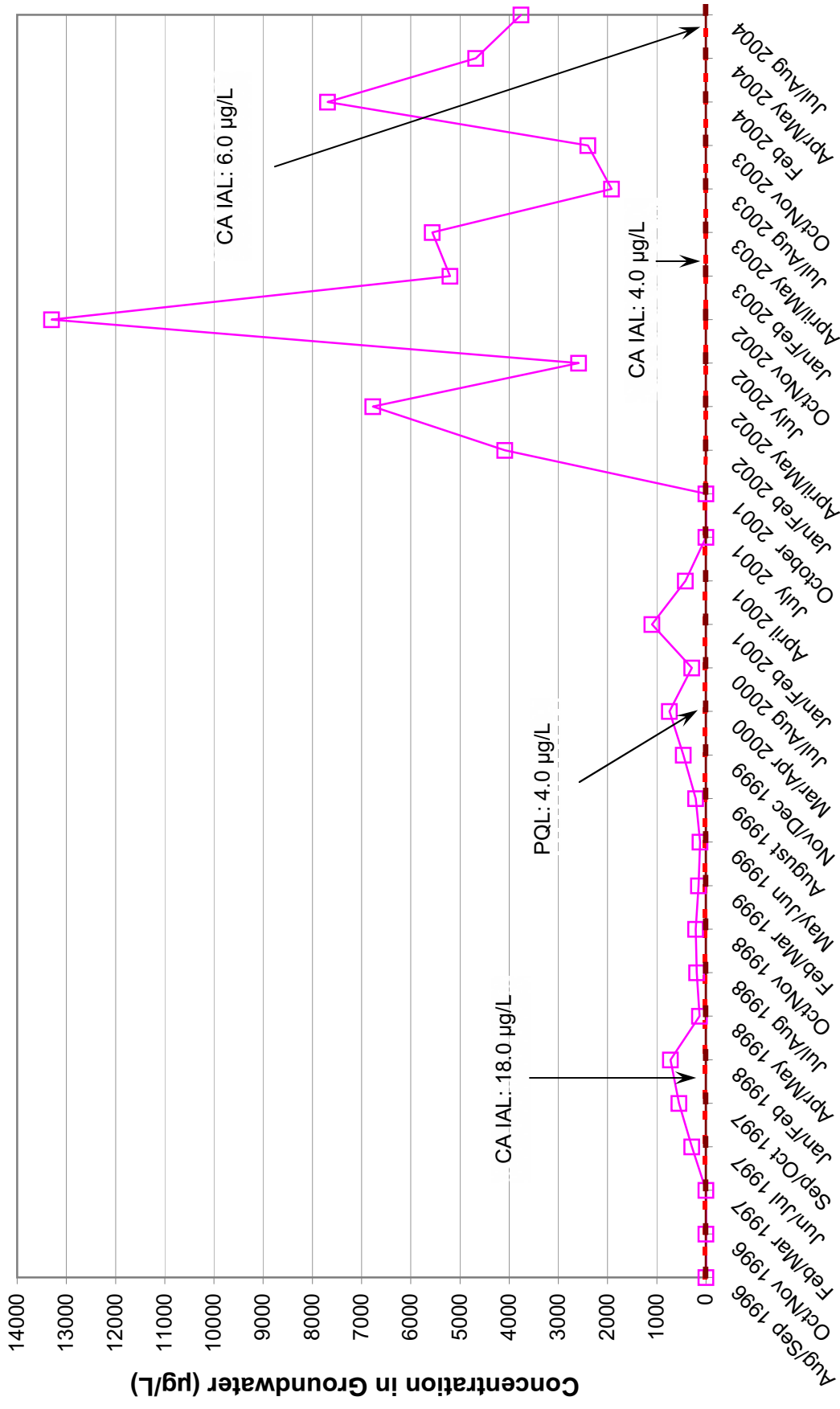
No sample was collected during Jan/Feb, April, July, and October 2001 events due to the ongoing Pilot Test at MW-7 (Reference US Filter Pilot Test Report for current water quality data). Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports. Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-26

**1,1-DCE DETECTED AT MW-7
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
Pasadena, California





Sampling Time

- Legend**
- Shallow Well
 - PQL
 - - - CA MCL

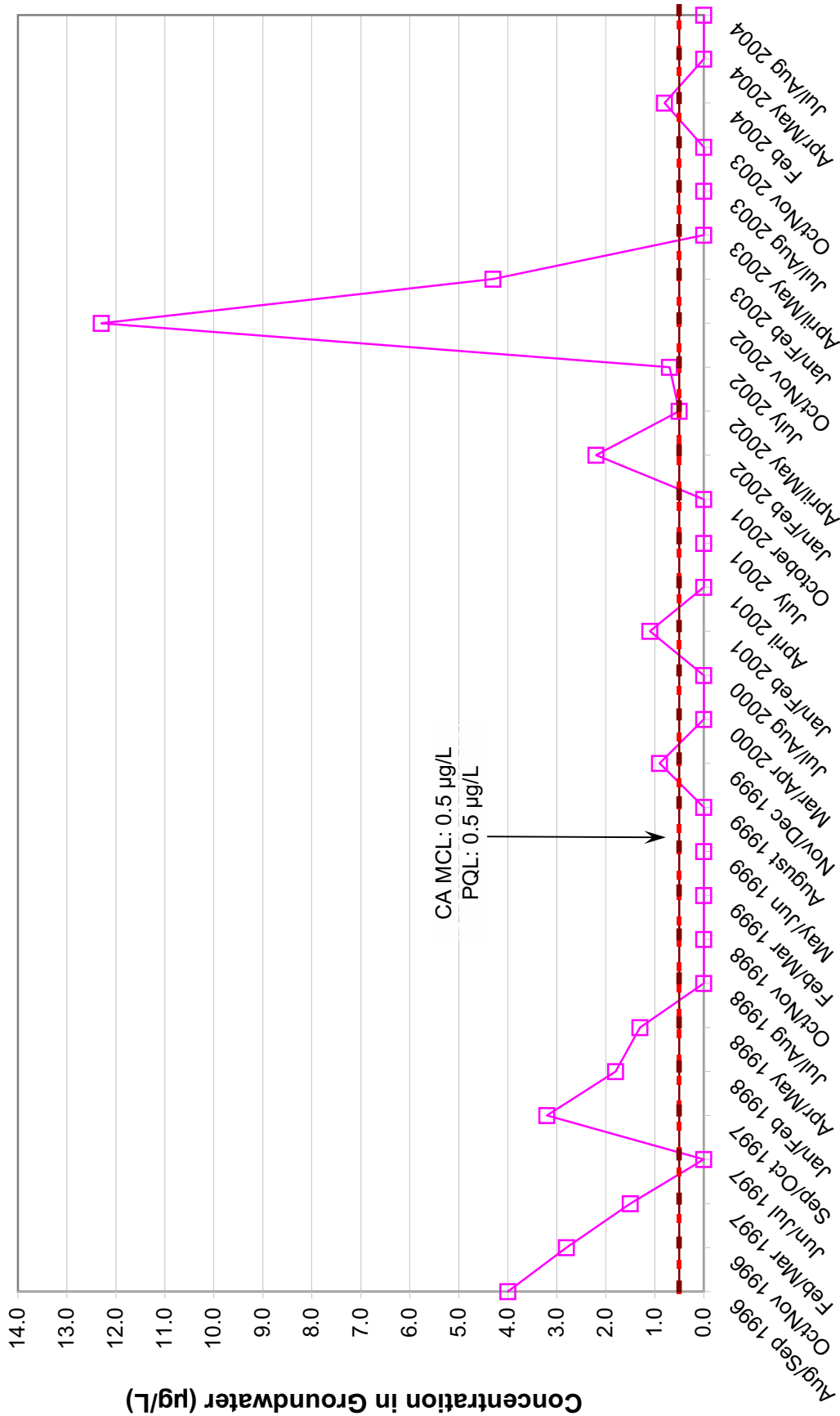
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-27

**PERCHLORATE DETECTED AT MW-7
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

—□— Shallow Well —●— PQL - - - CA MCL

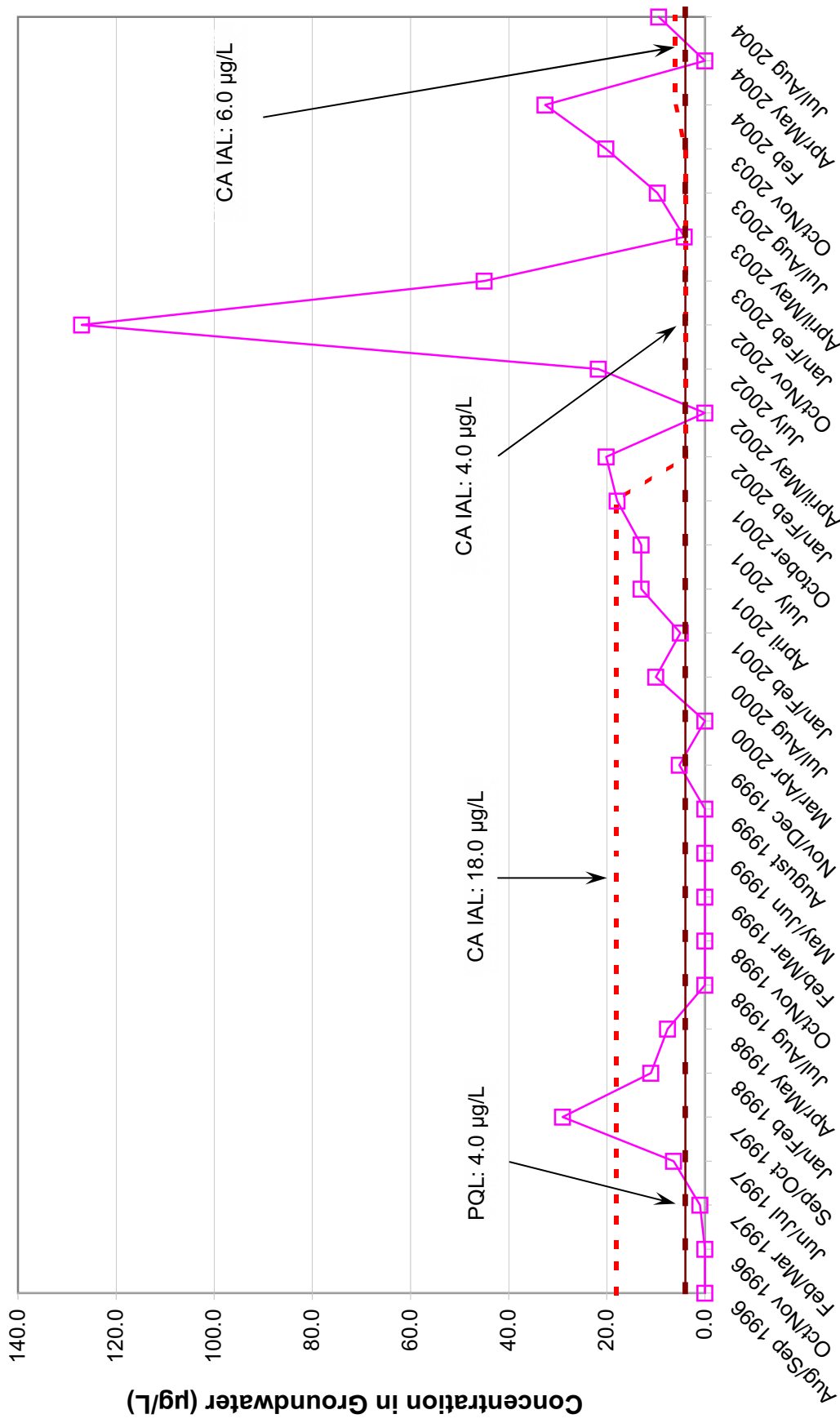
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-28

**CARBON TETRACHLORIDE DETECTED AT MW-8
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

- Shallow Well
- PQL
- CA IAL

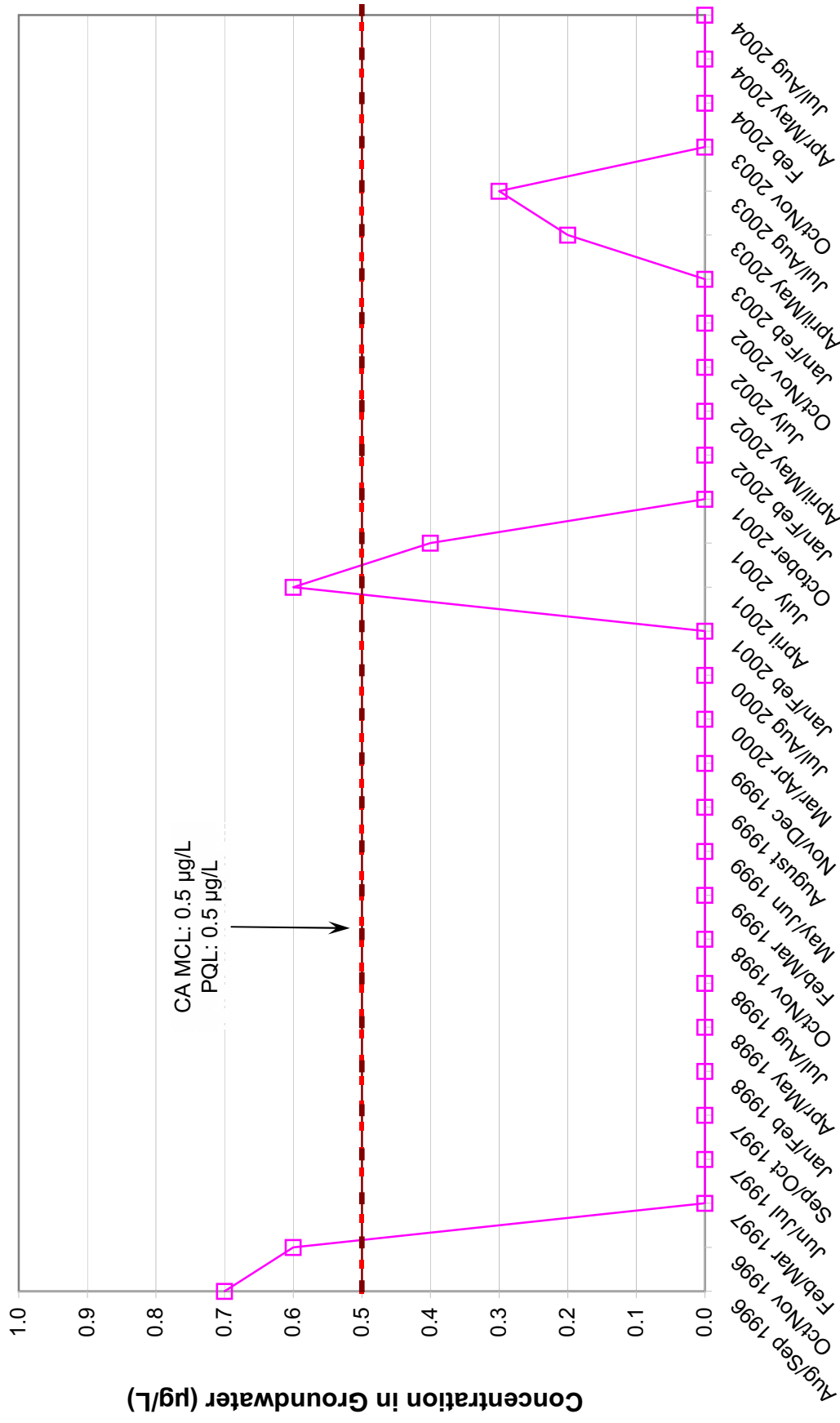
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-29

PERCHLORATE DETECTED AT MW-8
 FROM AUG/SEP 1996 TO JULY/AUG 2004

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

FIGURE 3-30

CARBON TETRACHLORIDE DETECTED AT MW-10
FROM AUG/SEP 1996 TO JULY/AUG 2004

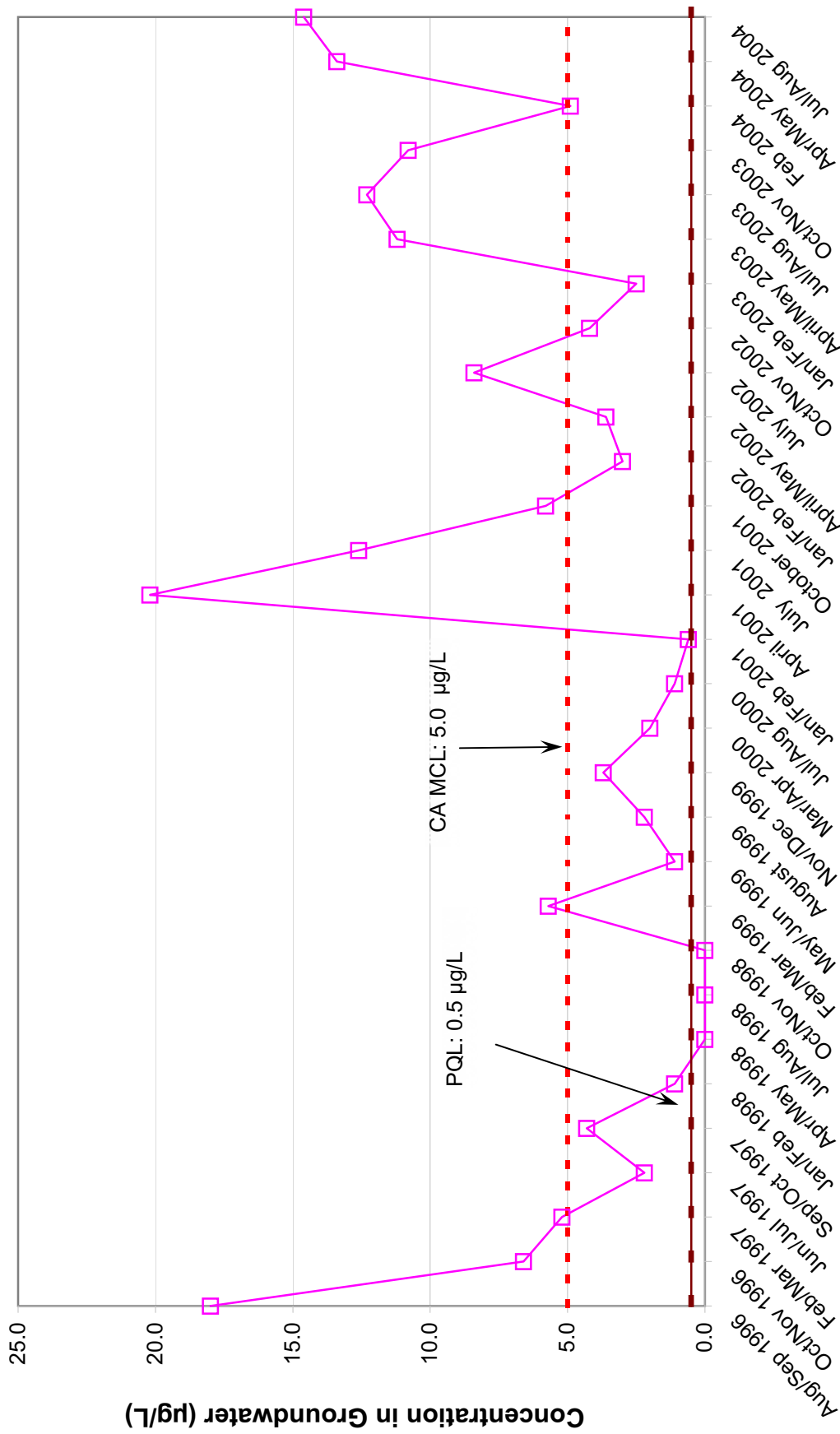
Jet Propulsion Laboratory
Pasadena, California



Legend

Shallow Well PQL CA MCL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.



Sampling Time

Legend

- Shallow Well
- PQL
- CA MCL

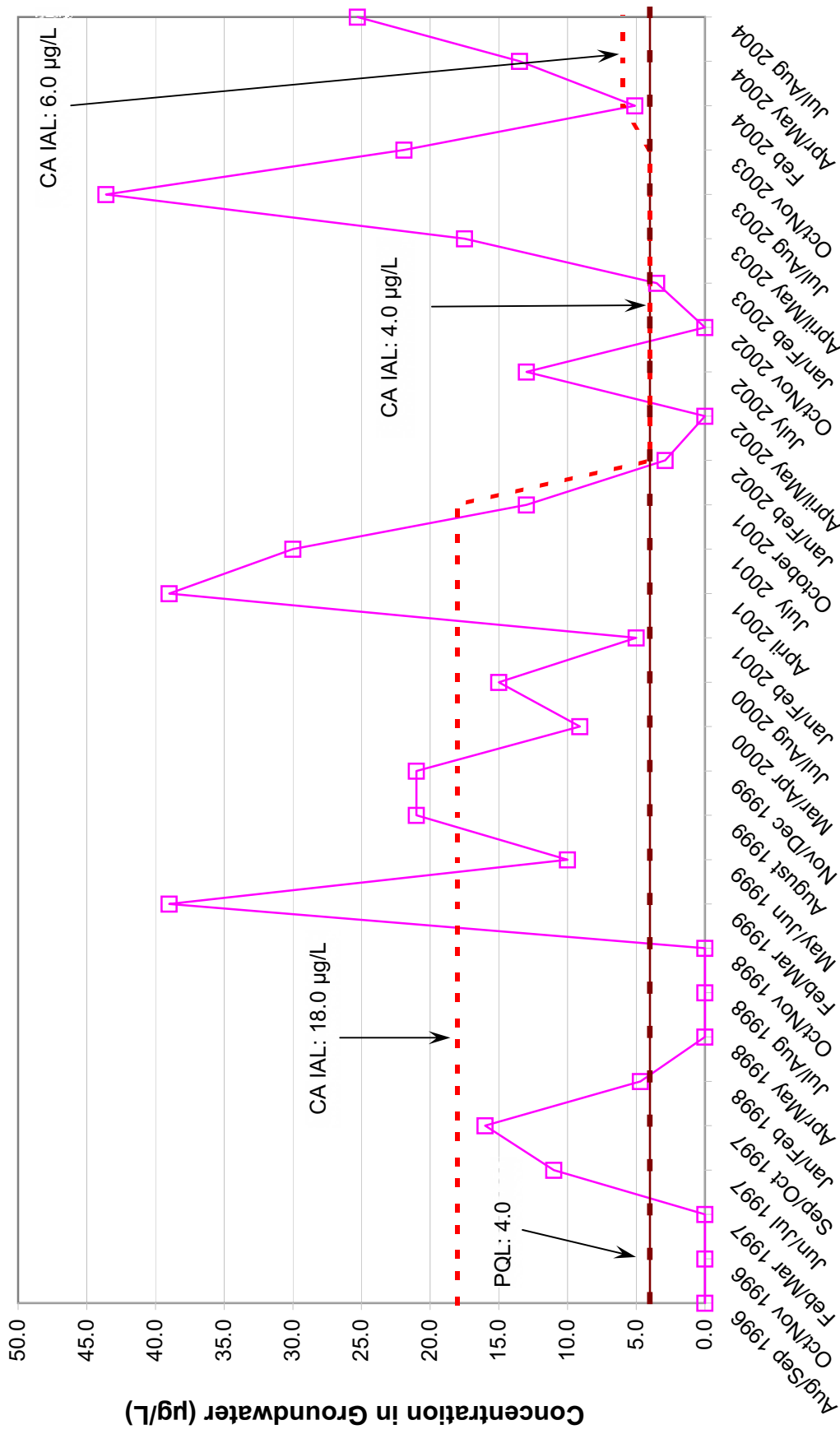
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-31

**TRICHLOROETHENE DETECTED AT MW-10
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

- Shallow Well
- PQL
- - - CA IAL

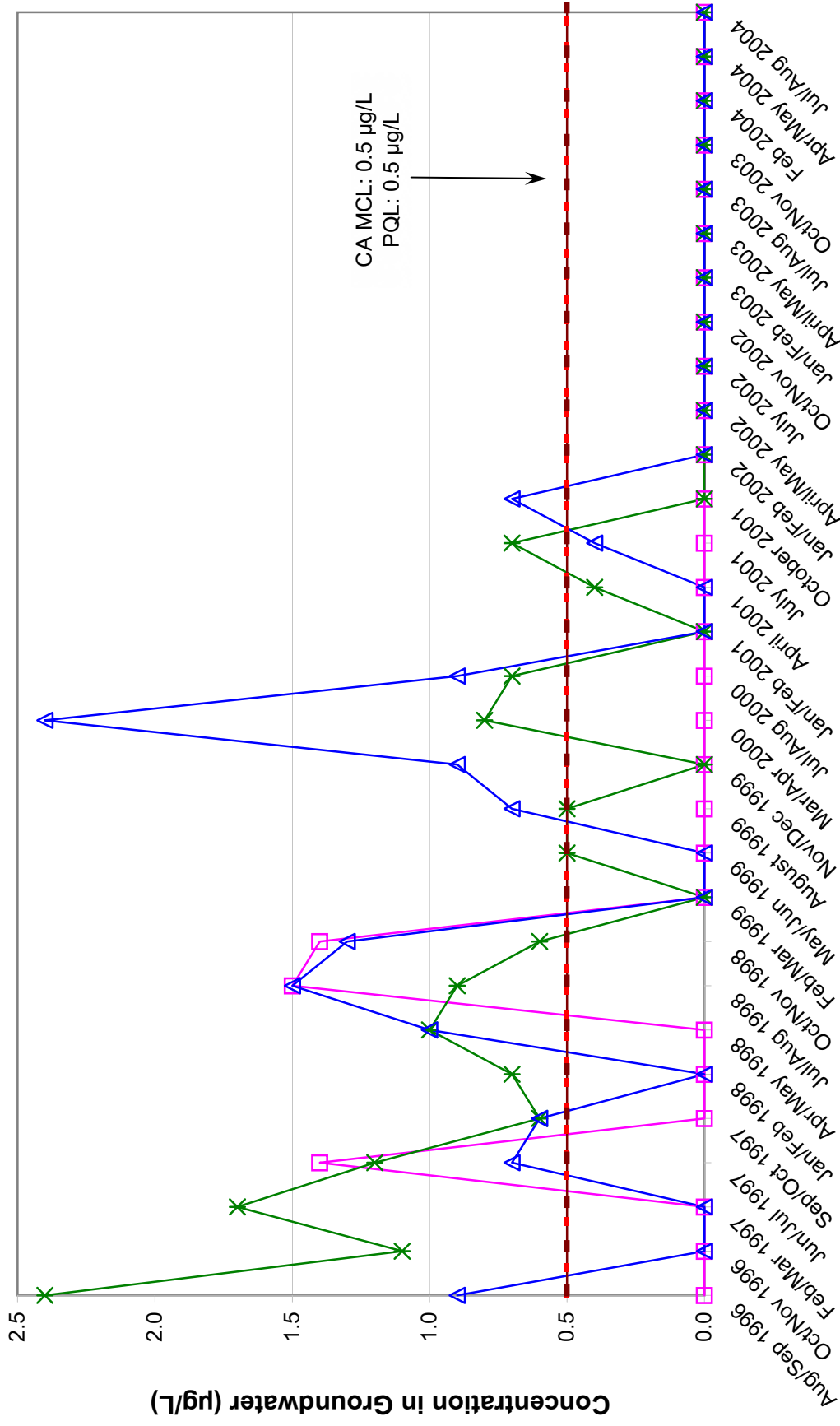
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-32

**PERCHLORATE DETECTED AT MW-10
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
 Pasadena, California





Sampling Time

Legend

- Screen 1
- * Screen 2
- △ Screen 3
- PQL
- - - CA MCL

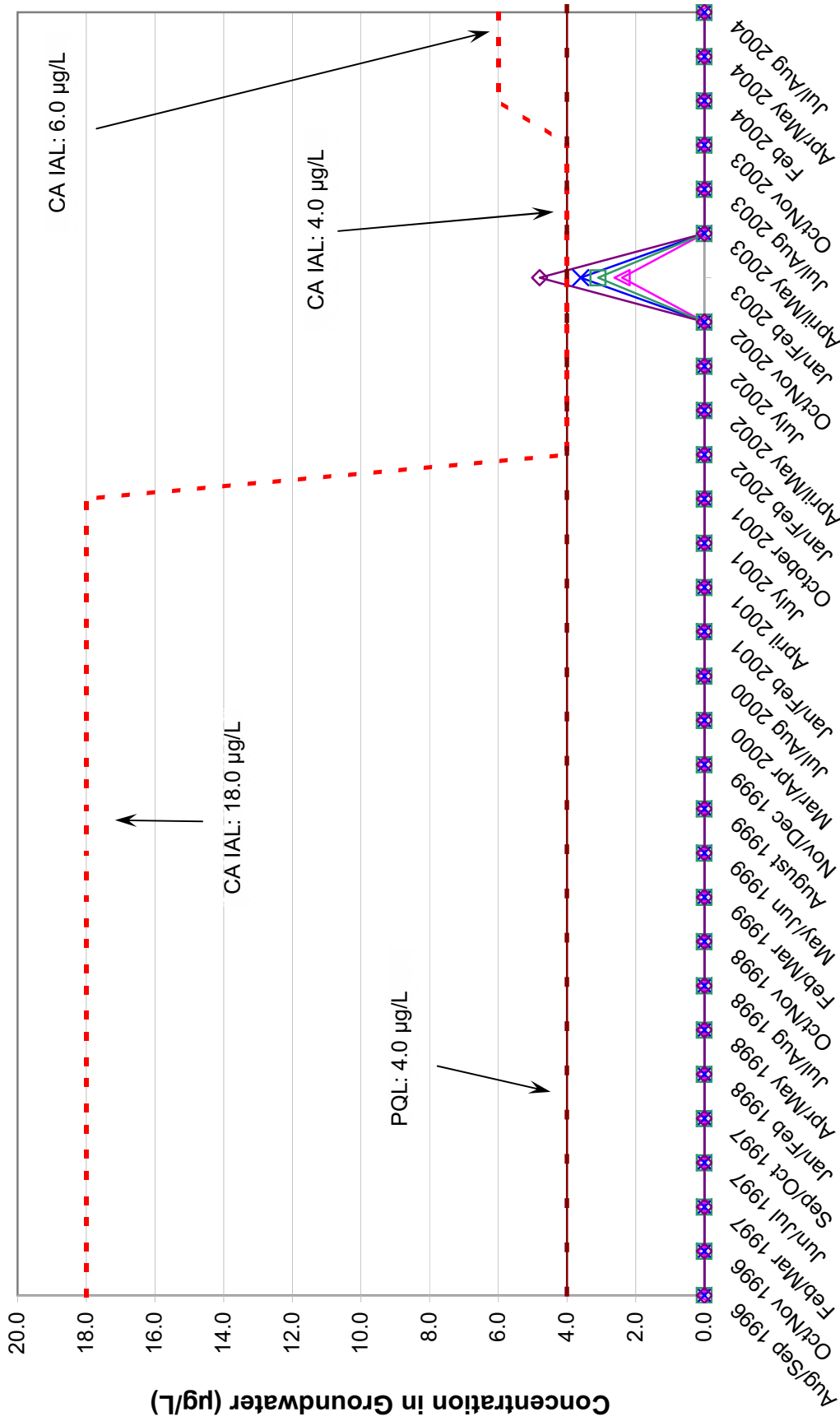
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports

FIGURE 3-33

**CARBON TETRACHLORIDE DETECTED AT MW-11
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
Pasadena, California





Sampling Time

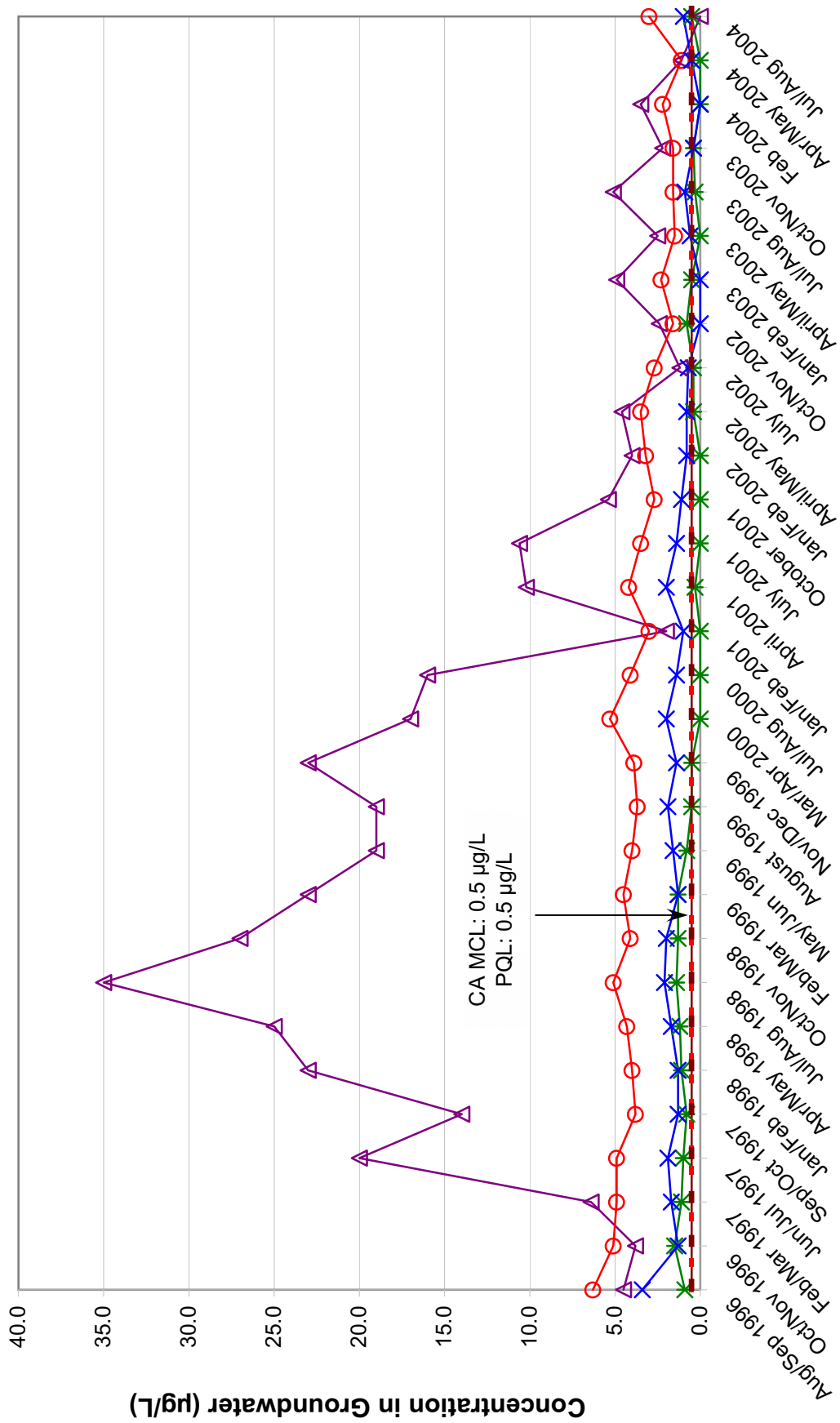
Legend

- △— Screen 1
- ×— Screen 2
- Screen 3
- ◇— Screen 4
- PQL
- CA IAL
- CA IAL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-34

PERCHLORATE DETECTED AT MW-11
 FROM AUG/SEP 1996 TO JULY/AUG 2004



Sampling Time

FIGURE 3-35
CARBON TETRACHLORIDE DETECTED AT MW-12
FROM AUG/SEP 1996 TO JULY/AUG 2004

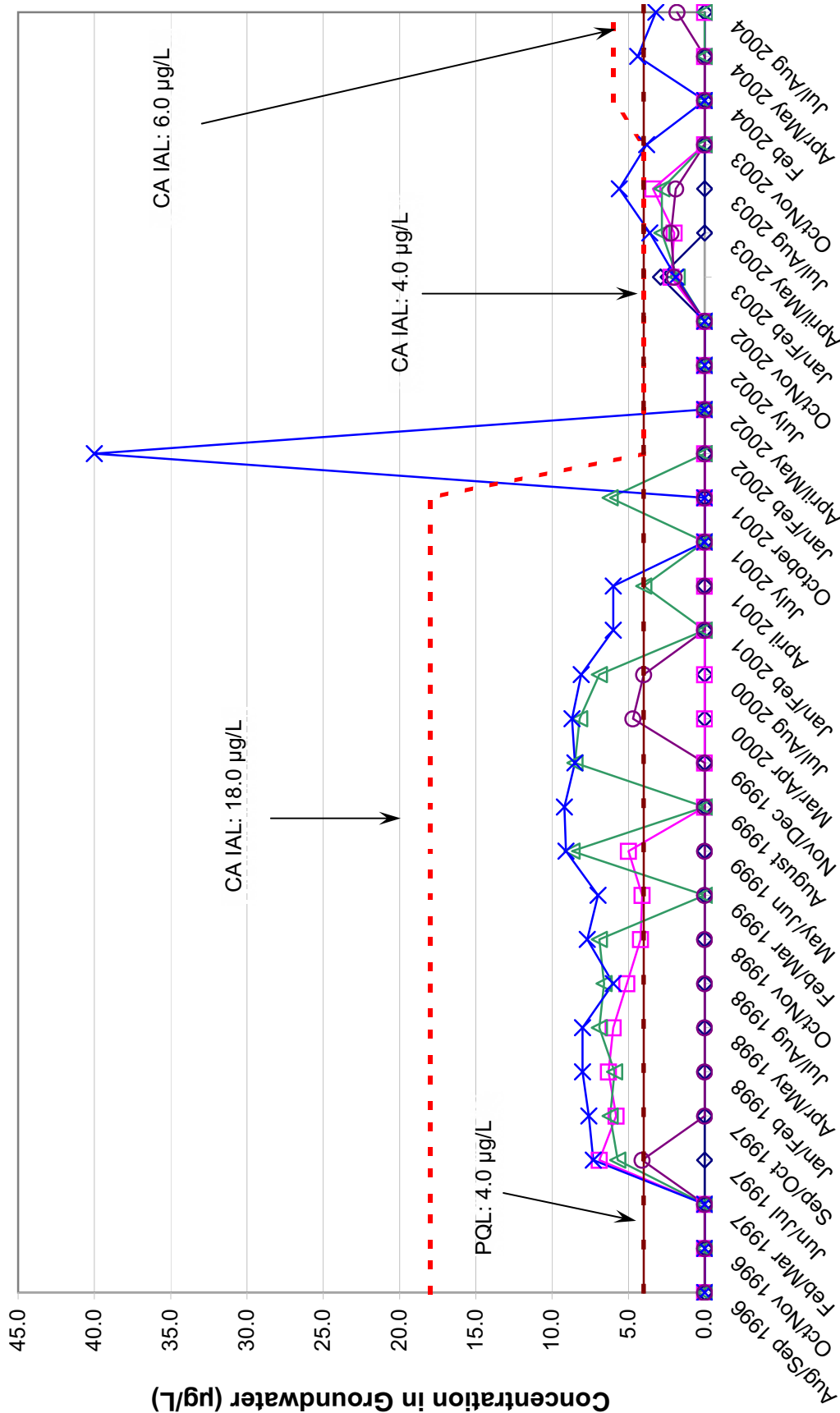
Legend

- Screen 2 (green asterisk)
- Screen 3 (purple triangle)
- Screen 4 (red circle)
- Screen 5 (blue cross)
- PQL (red dashed line)
- CA MCL (red dashed line)

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

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 Pasadena, California





Sampling Time

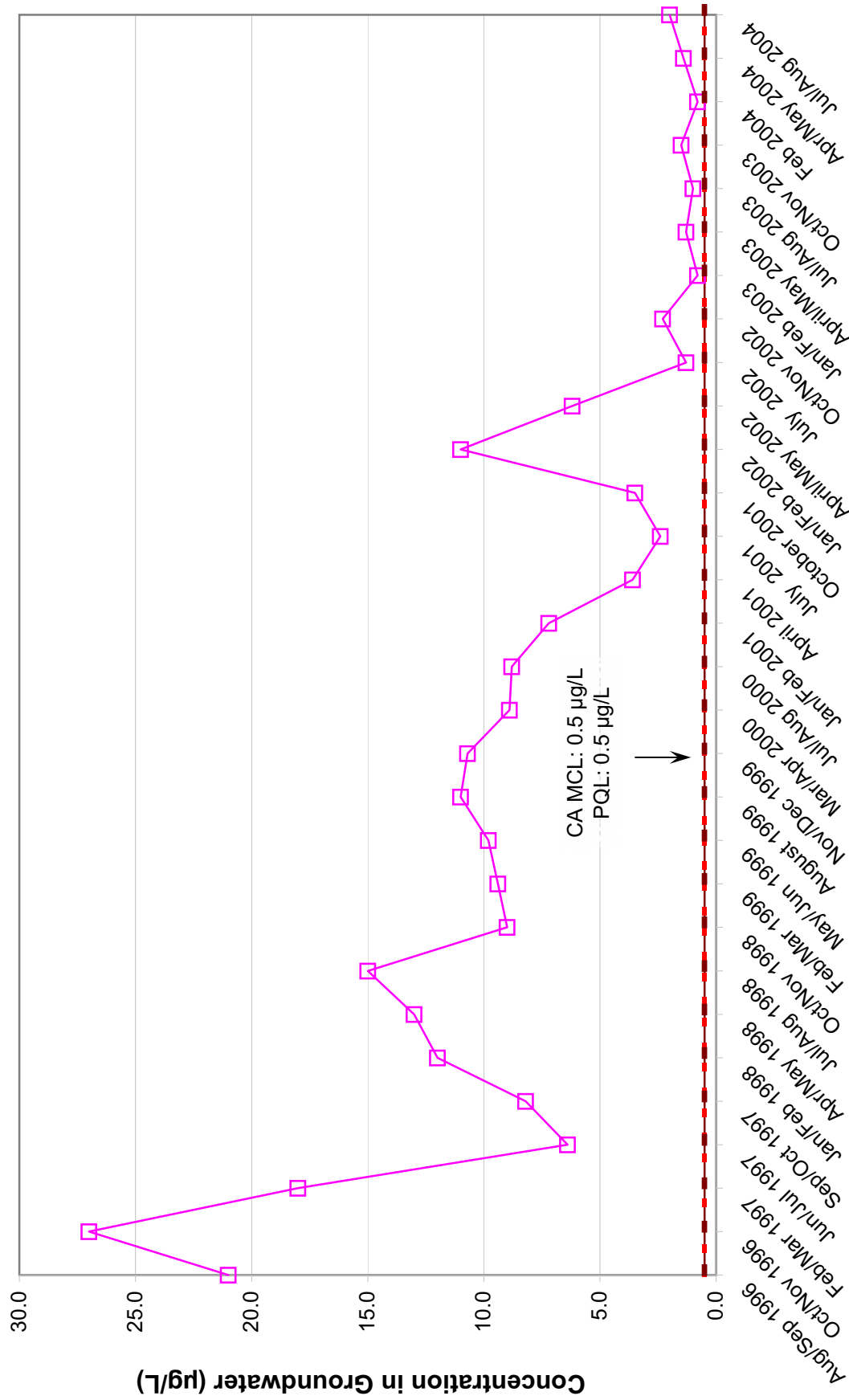
Legend

- ◇— Screen 1
- Screen 2
- △— Screen 3
- ×— Screen 4
- Screen 5
- PQL
- CA IAL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-36

**PERCHLORATE DETECTED AT MW-12
 FROM AUG/SEP 1996 TO JULY/AUG 2004**



Sampling Time

FIGURE 3-37

**CARBON TETRACHLORIDE DETECTED AT MW-13
FROM AUG/SEP 1996 TO JULY/AUG 2004**

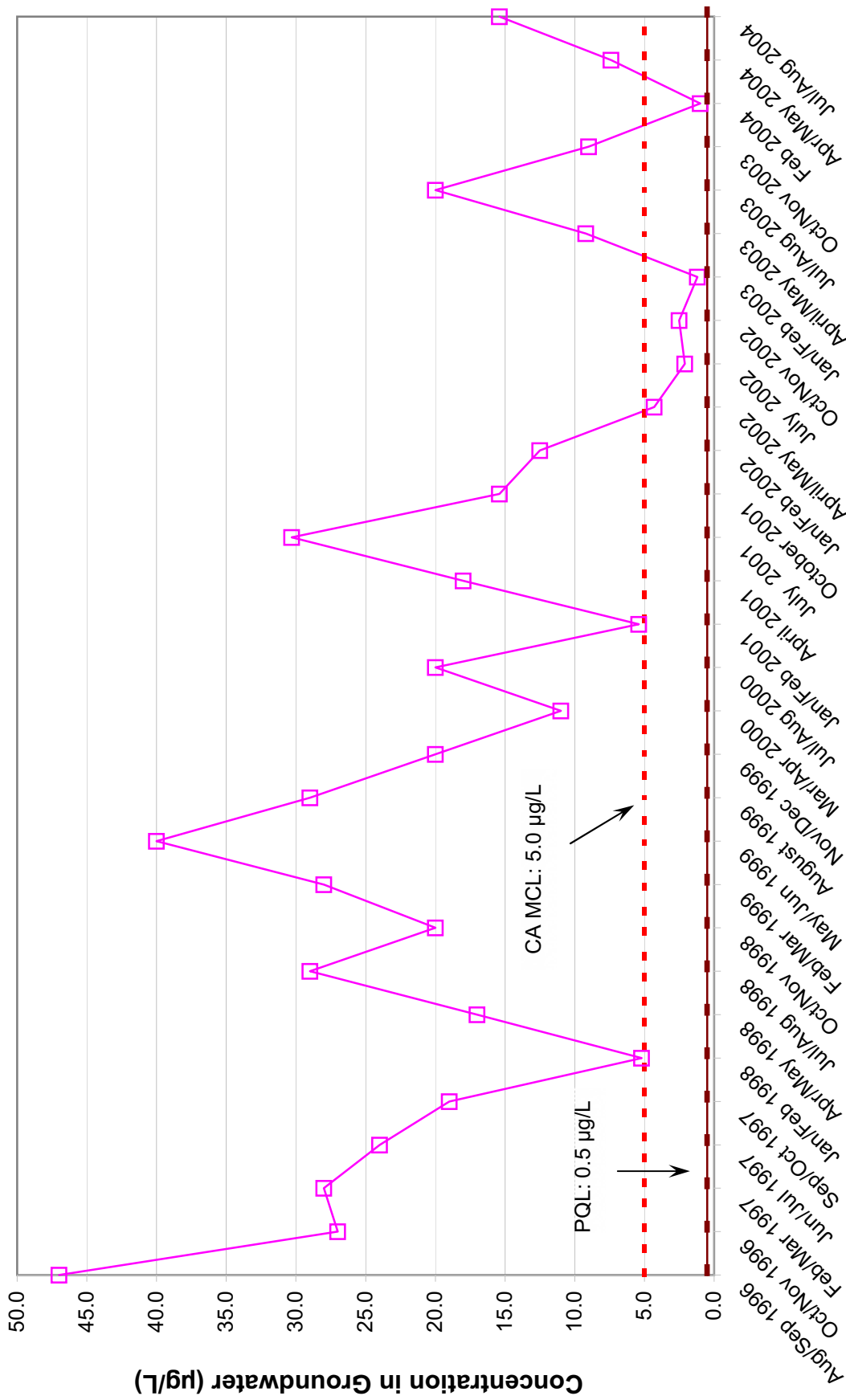
Legend

- Shallow Well
- PQL
- - - CA MCL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

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Sampling Time

Legend

- Shallow Well
- PQL
- - - CA MCL

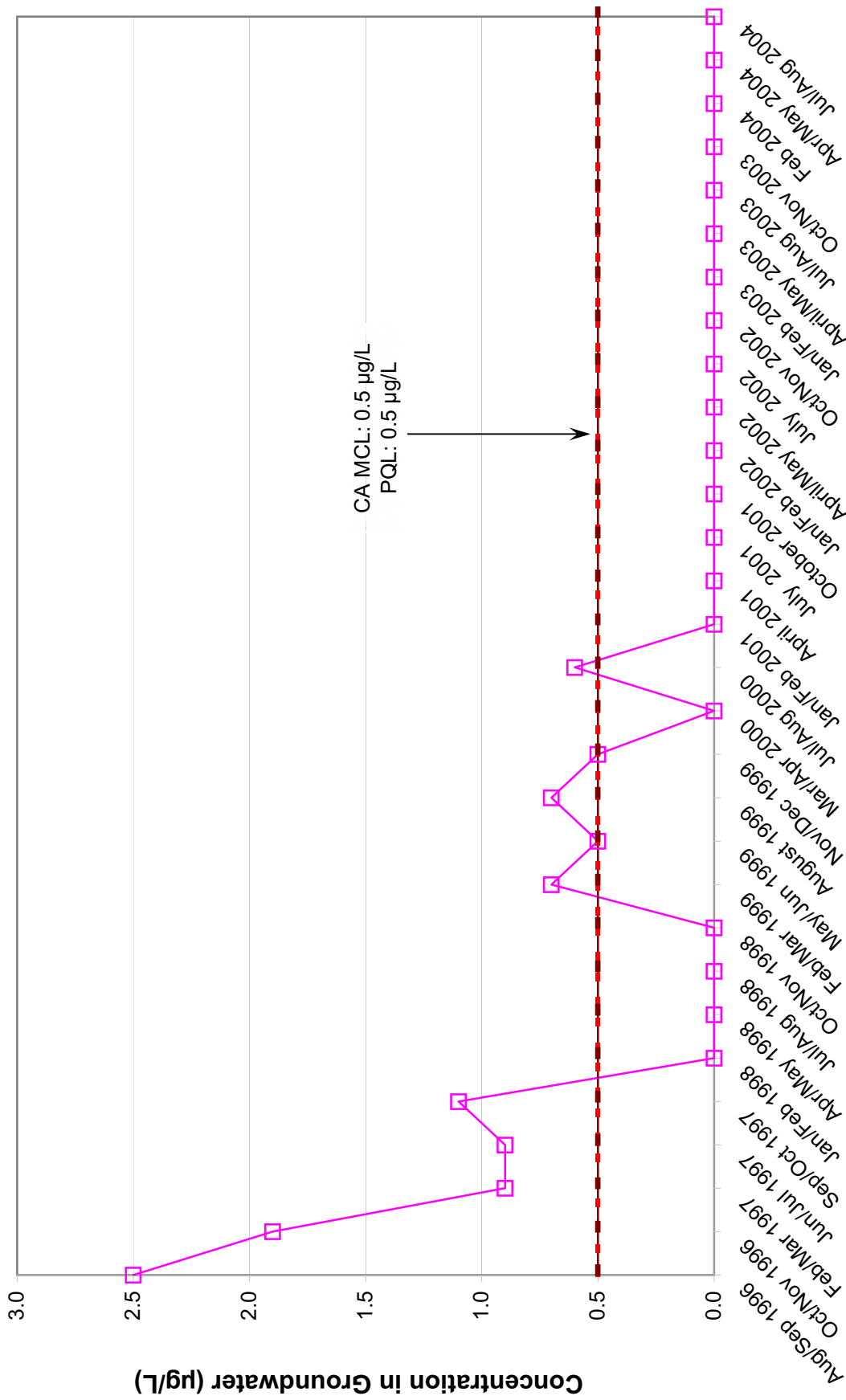
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-38

**TRICHLOROETHENE DETECTED AT MW-13
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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CA MCL: 0.5 µg/L
PQL: 0.5 µg/L

Sampling Time

Legend

- Shallow Well
- PQL
- CA MCL

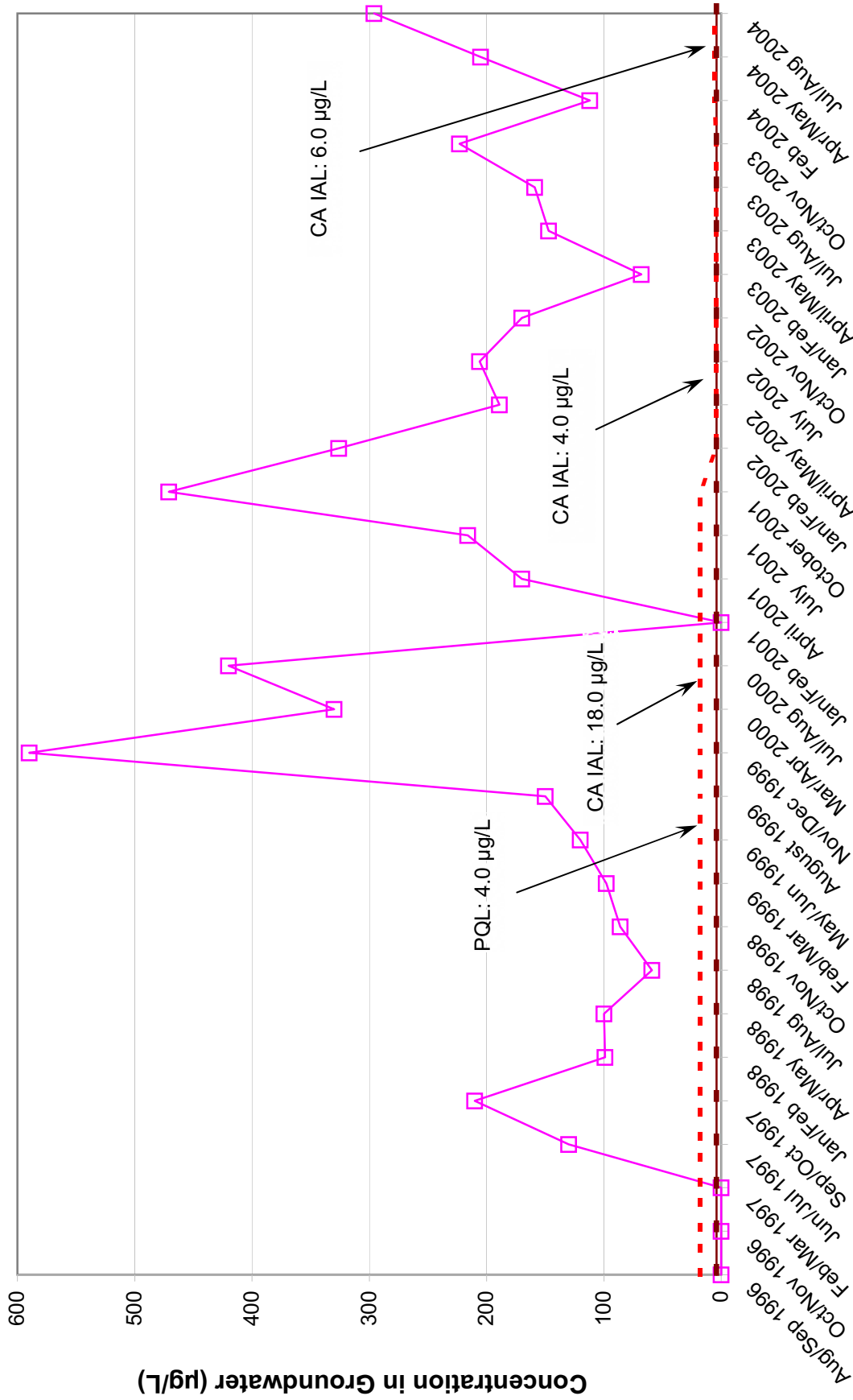
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-39

1,2-DCA DETECTED AT MW-13
FROM AUG/SEP 1996 TO JULY/AUG 2004

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Sampling Time

Legend

- Shallow Well
- PQL
- - - CA IAL

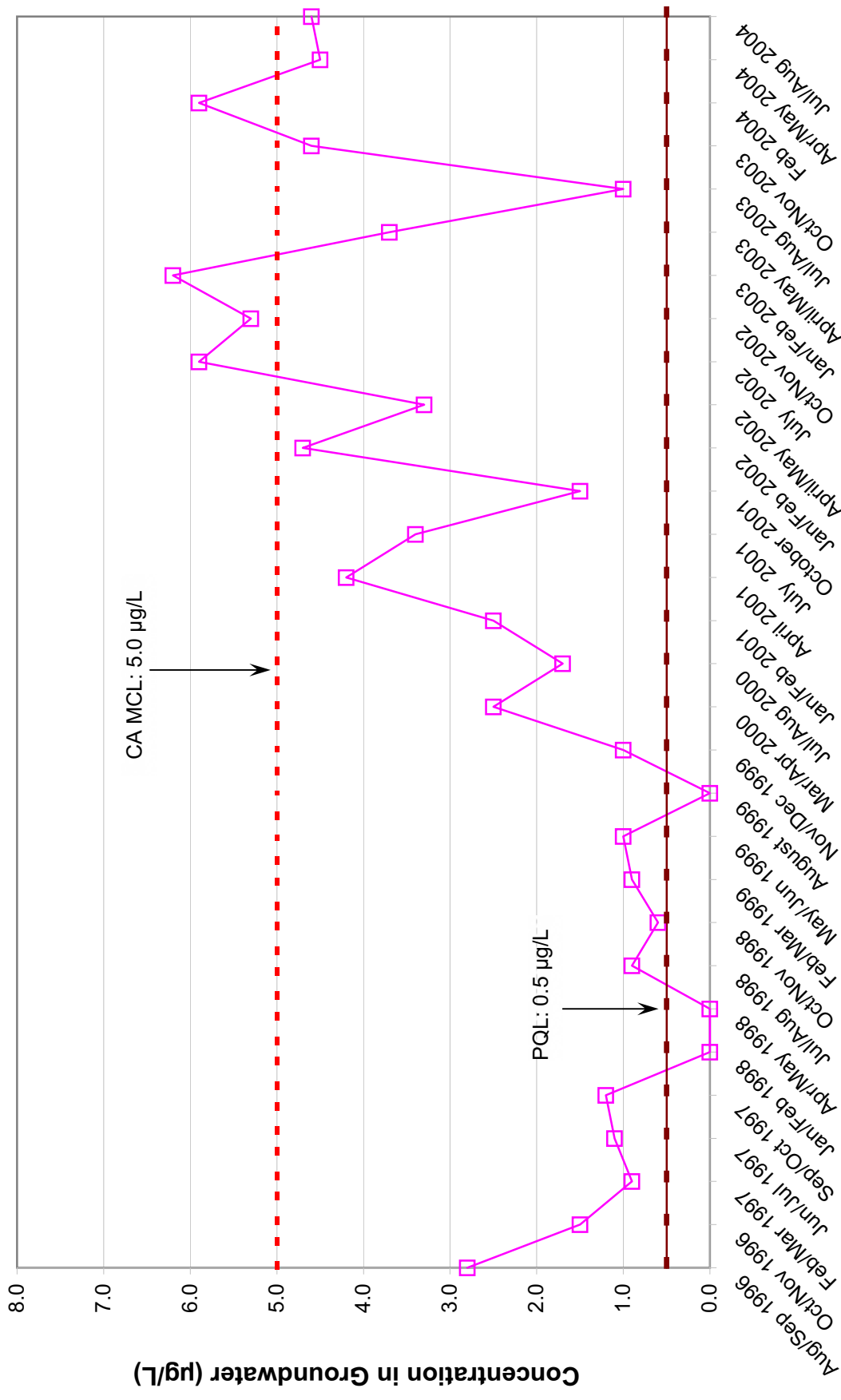
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-40

**PERCHLORATE DETECTED AT MW-13
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Concentration in Groundwater (µg/L)

Legend

- Screen 2
- PQL
- - - CA MCL

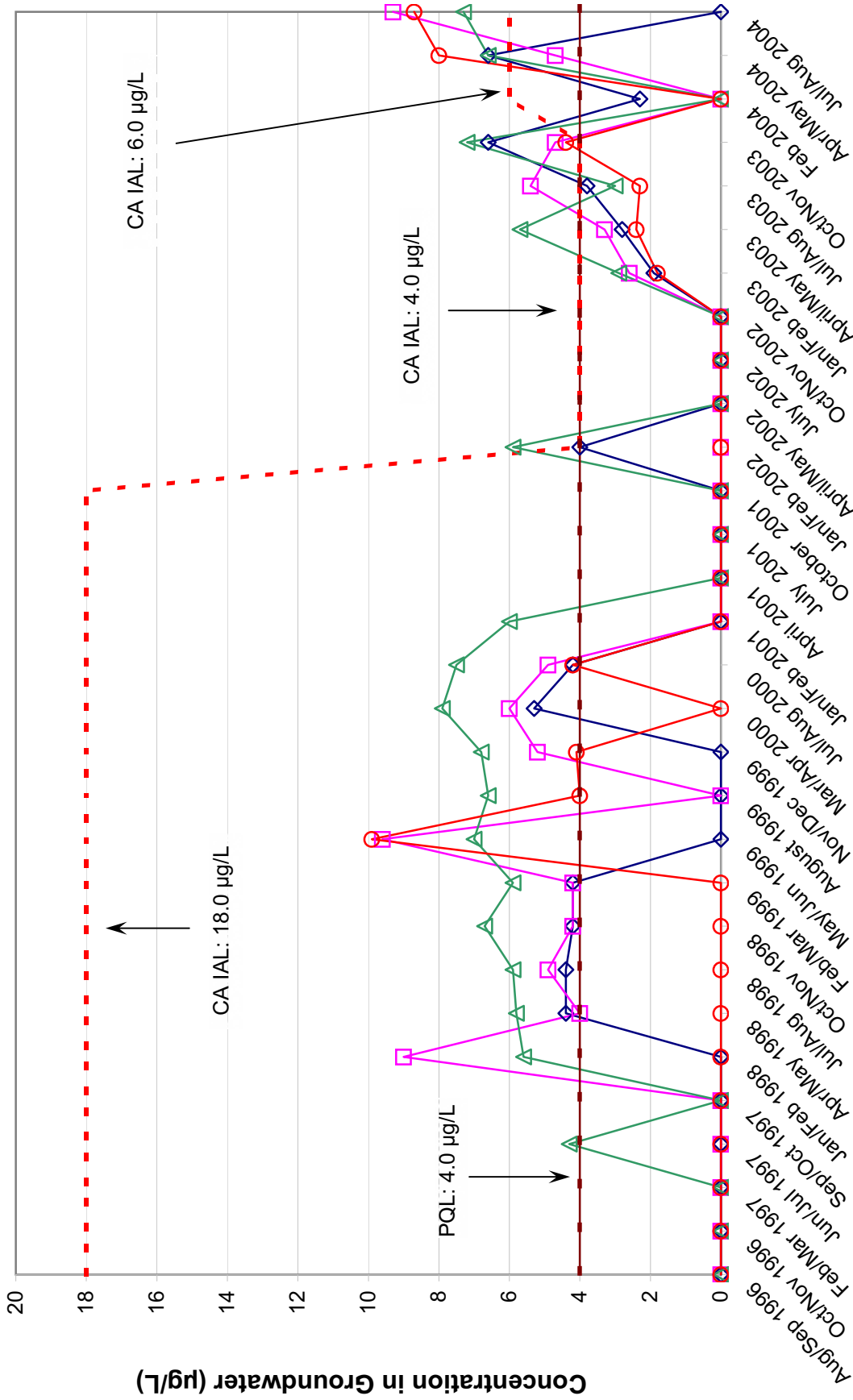
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-41

TRICHLOROETHENE DETECTED AT MW-14
 FROM AUG/SEP 1996 TO JULY/AUG 2004

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Sampling Time

Legend

- Screen 1 (blue diamond)
- Screen 2 (magenta square)
- Screen 3 (green triangle)
- Screen 4 (red circle)
- PQL (solid red line)
- CA IAL (dashed red line)

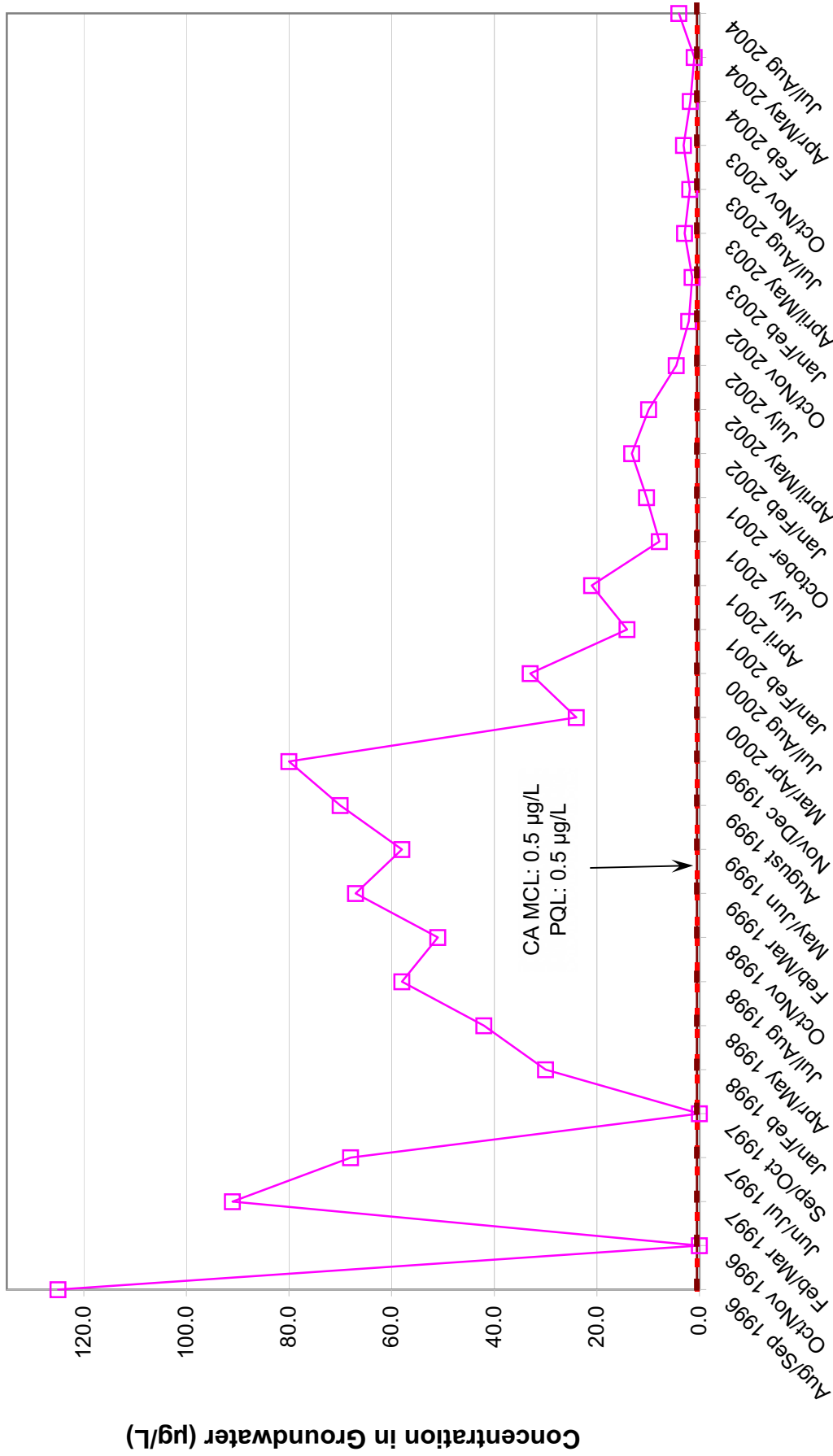
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-42

**PERCHLORATE DETECTED AT MW-14
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Sampling Time

FIGURE 3-43
CARBON TETRACHLORIDE DETECTED AT MW-16
FROM AUG/SEP 1996 TO JULY/AUG 2004

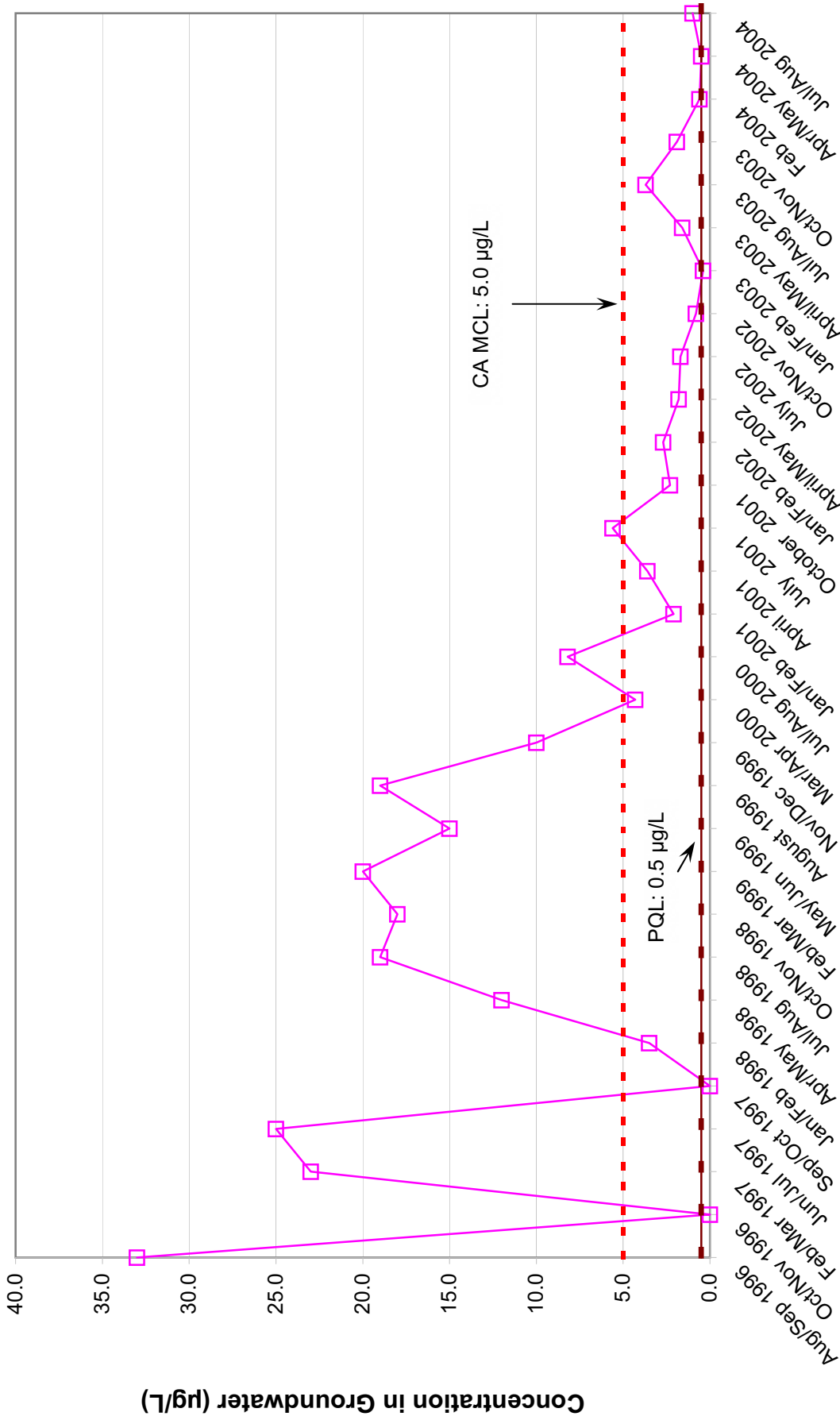
Legend

- Shallow Well
- PQL
- CA MCL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

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Sampling Time

FIGURE 3-44

**TRICHLOROETHENE DETECTED AT MW-16
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Legend

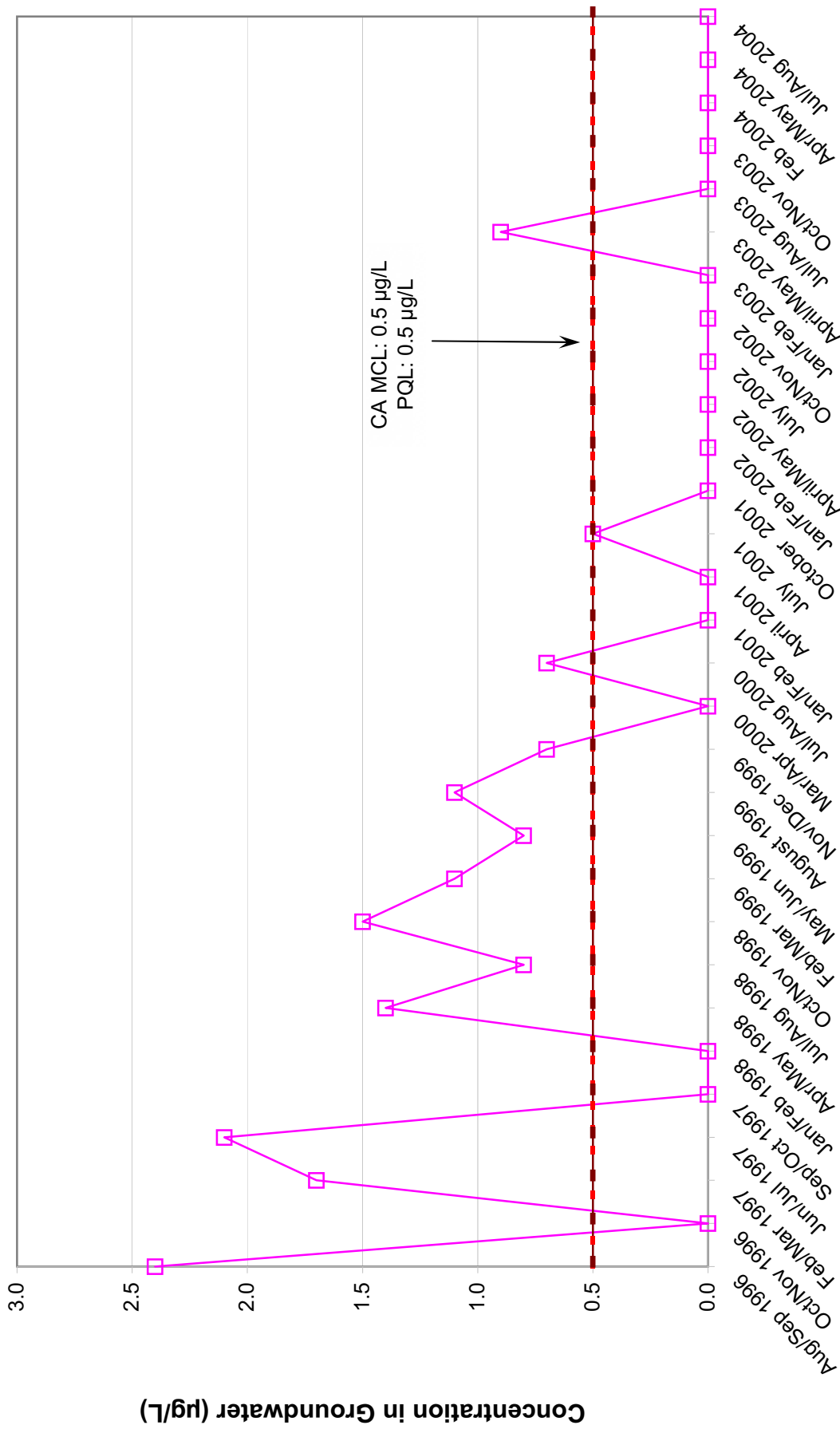
- Shallow Well
- PQL
- CA MCL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.

Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

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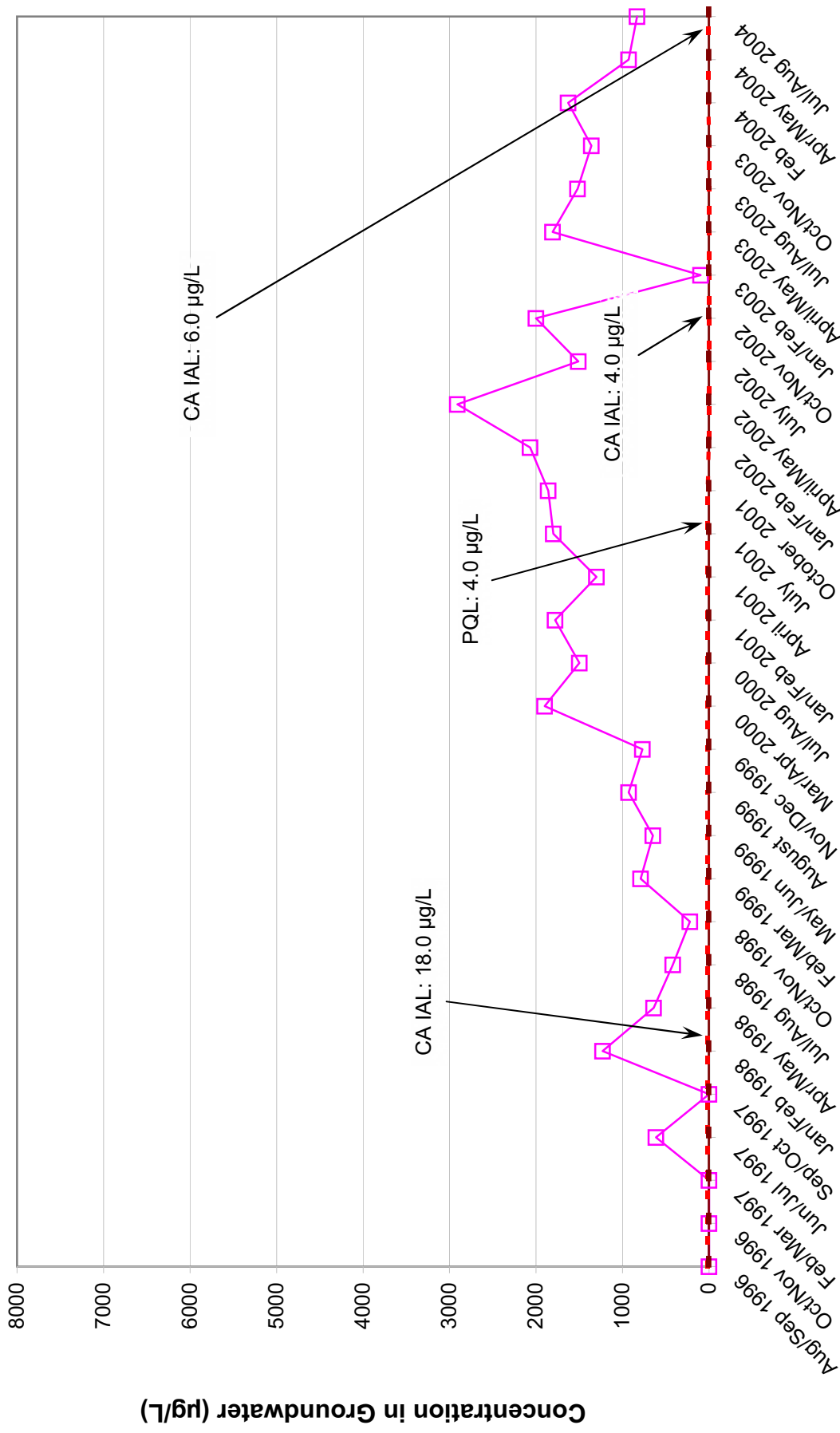


Sampling Time

FIGURE 3-45
1, 2-DCA DETECTED AT MW-16
FROM AUG/SEP 1996 TO JULY/AUG 2004

Legend

- Shallow Well
 - PQL
 - CA MCL
- Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.



Sampling Time

Legend

- Shallow Well
- PQL
- - - CA IAL

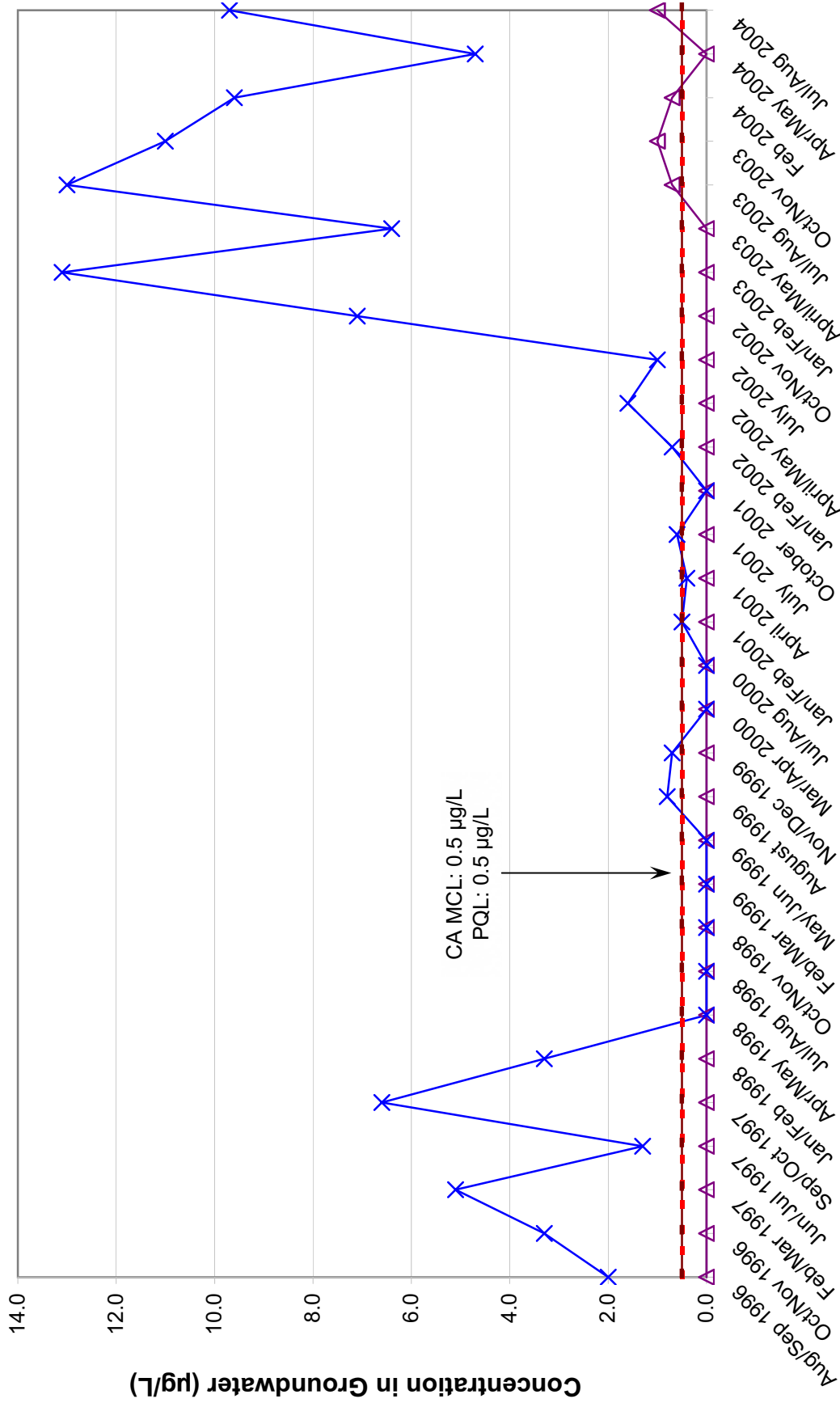
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-46

**PERCHLORATE DETECTED AT MW-16
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Sampling Time

Legend

- △— Screen 2
- x— Screen 3
- PQL
- - - CA MCL

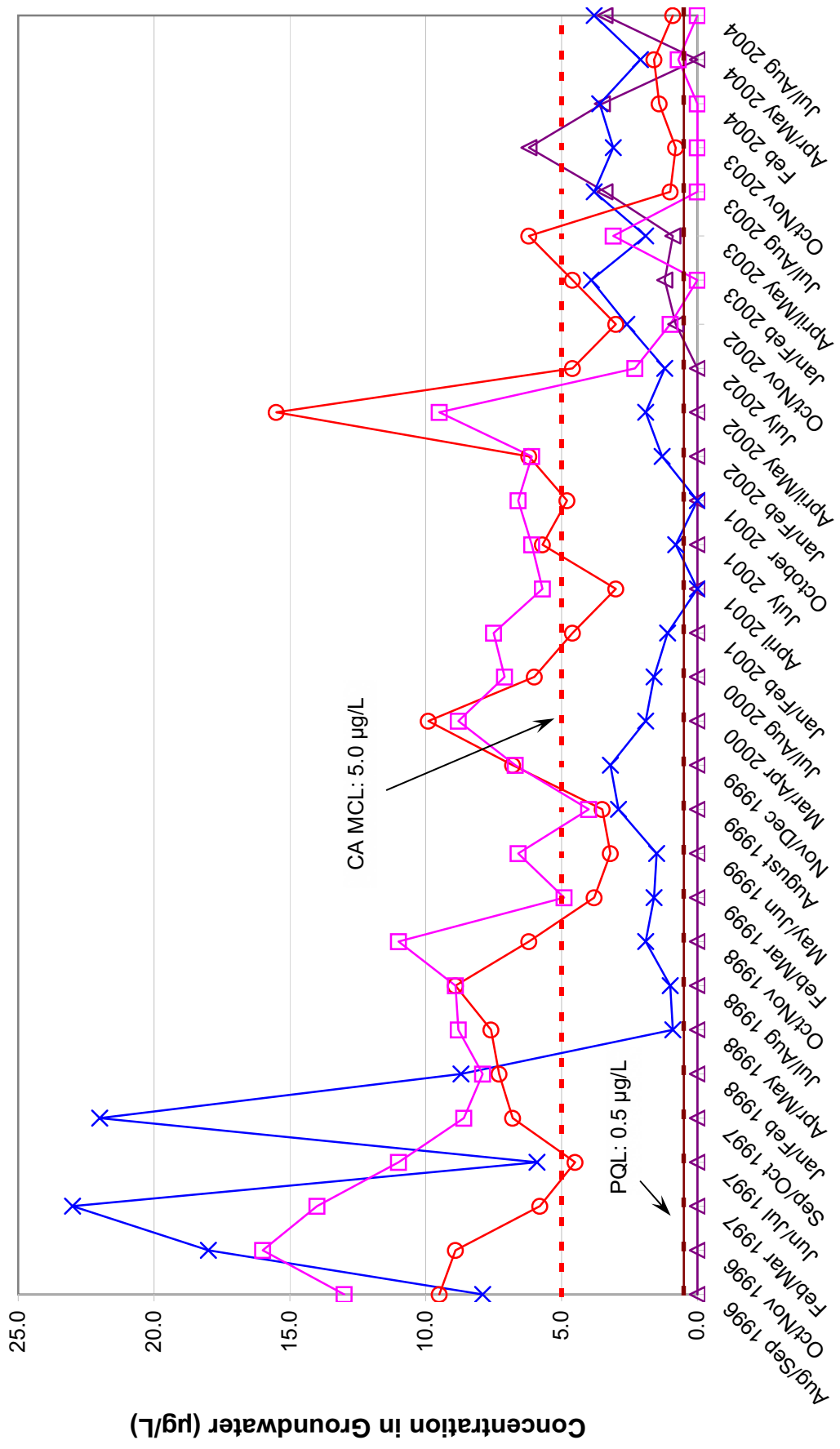
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-47

**CARBON TETRACHLORIDE DETECTED AT MW-17
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Concentration in Groundwater (µg/L)

Legend

- △ Screen 2
- × Screen 3
- Screen 4
- Screen 5
- PQL
- - - CA MCL

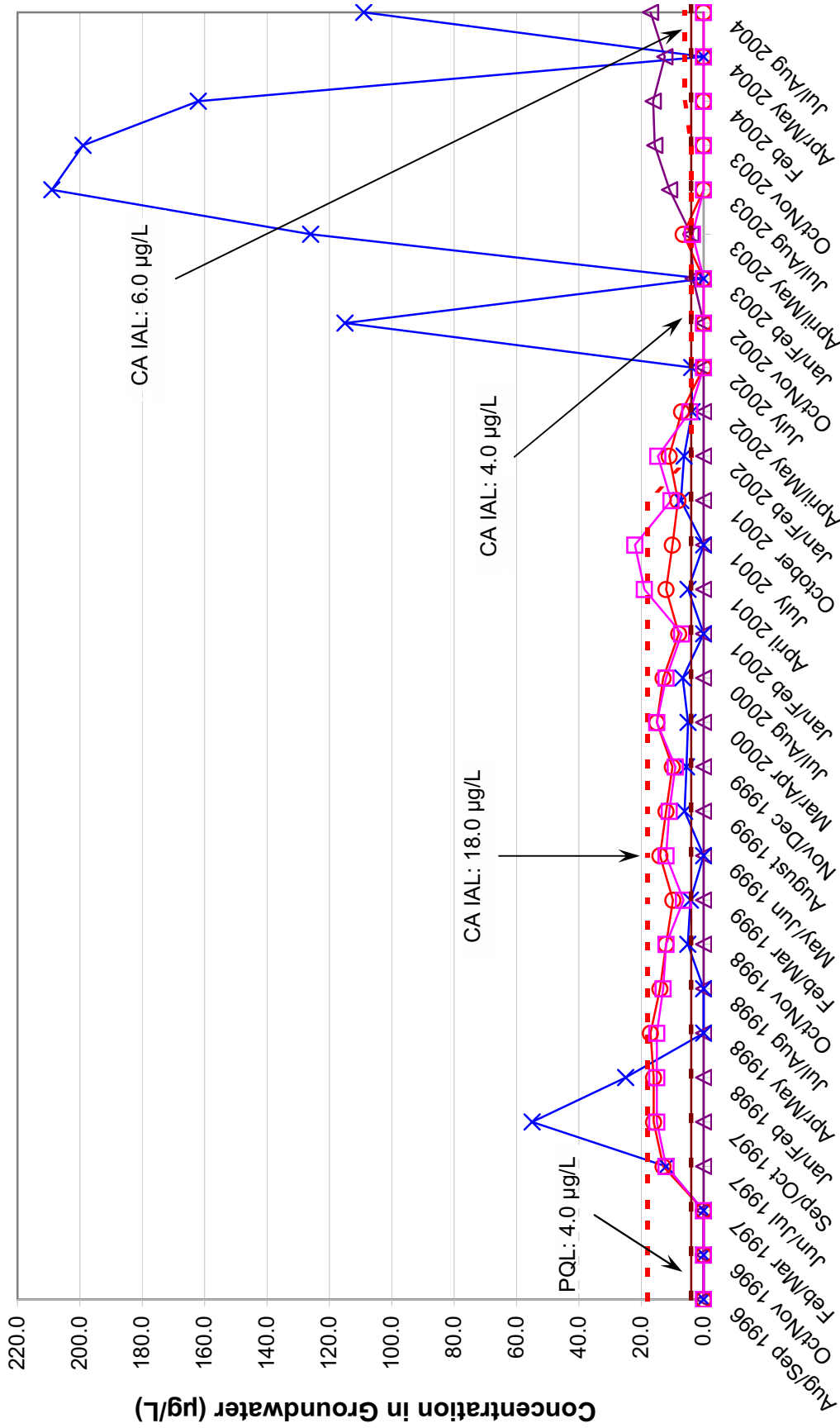
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-48

TRICHLOROETHENE DETECTED AT MW-17
 FROM AUG/SEP 1996 TO JULY/AUG 2004

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Sampling Time

Legend

- △— Screen 2 —×— Screen 3 —○— Screen 4 —□— Screen 5 —○— PQL —■— CA IAL

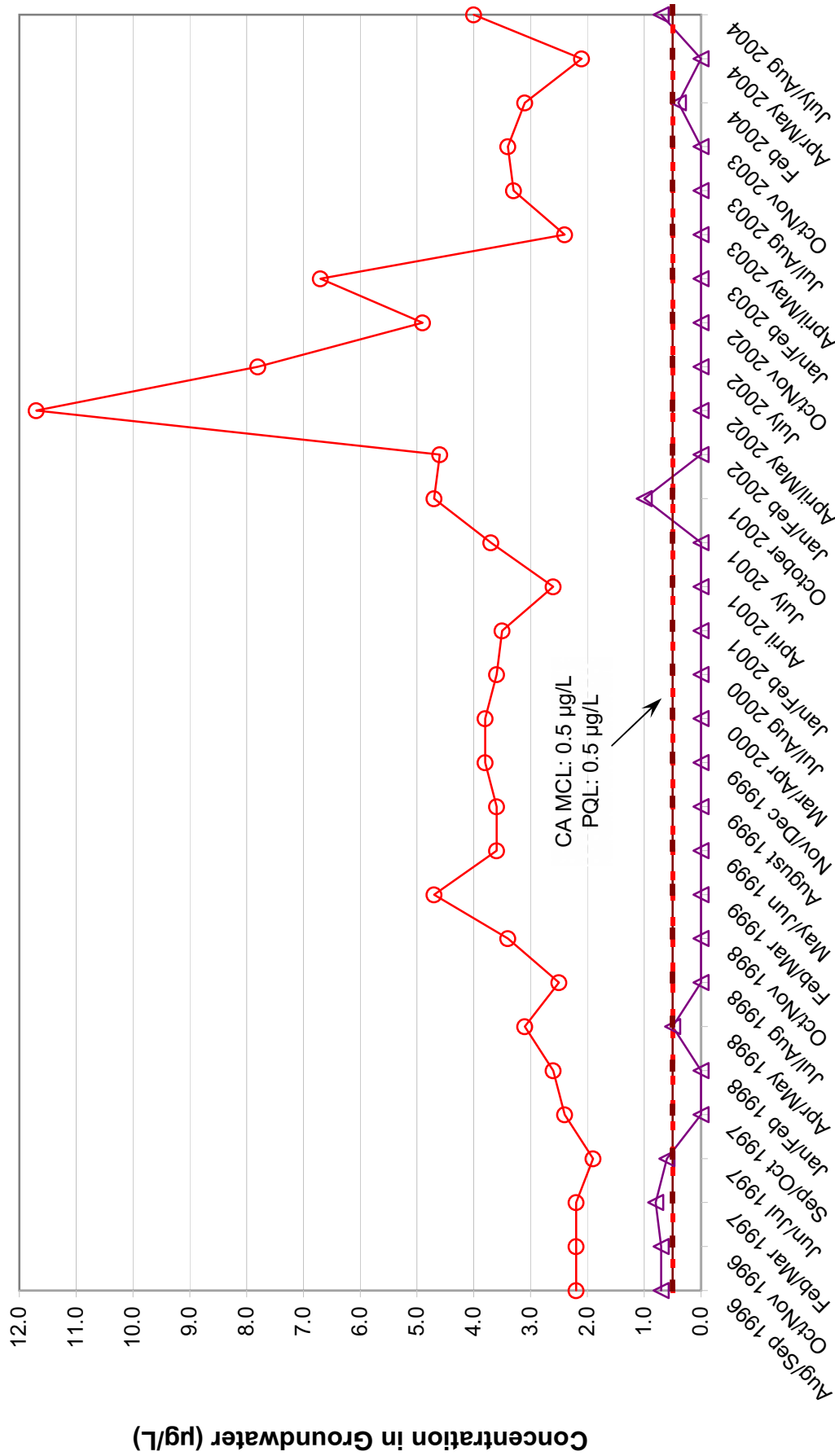
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-49

**PERCHLORATE DETECTED AT MW-17
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Sampling Time

FIGURE 3-50

**CARBON TETRACHLORIDE DETECTED AT MW-18
FROM AUG/SEP 1996 TO JULY/AUG 2004**

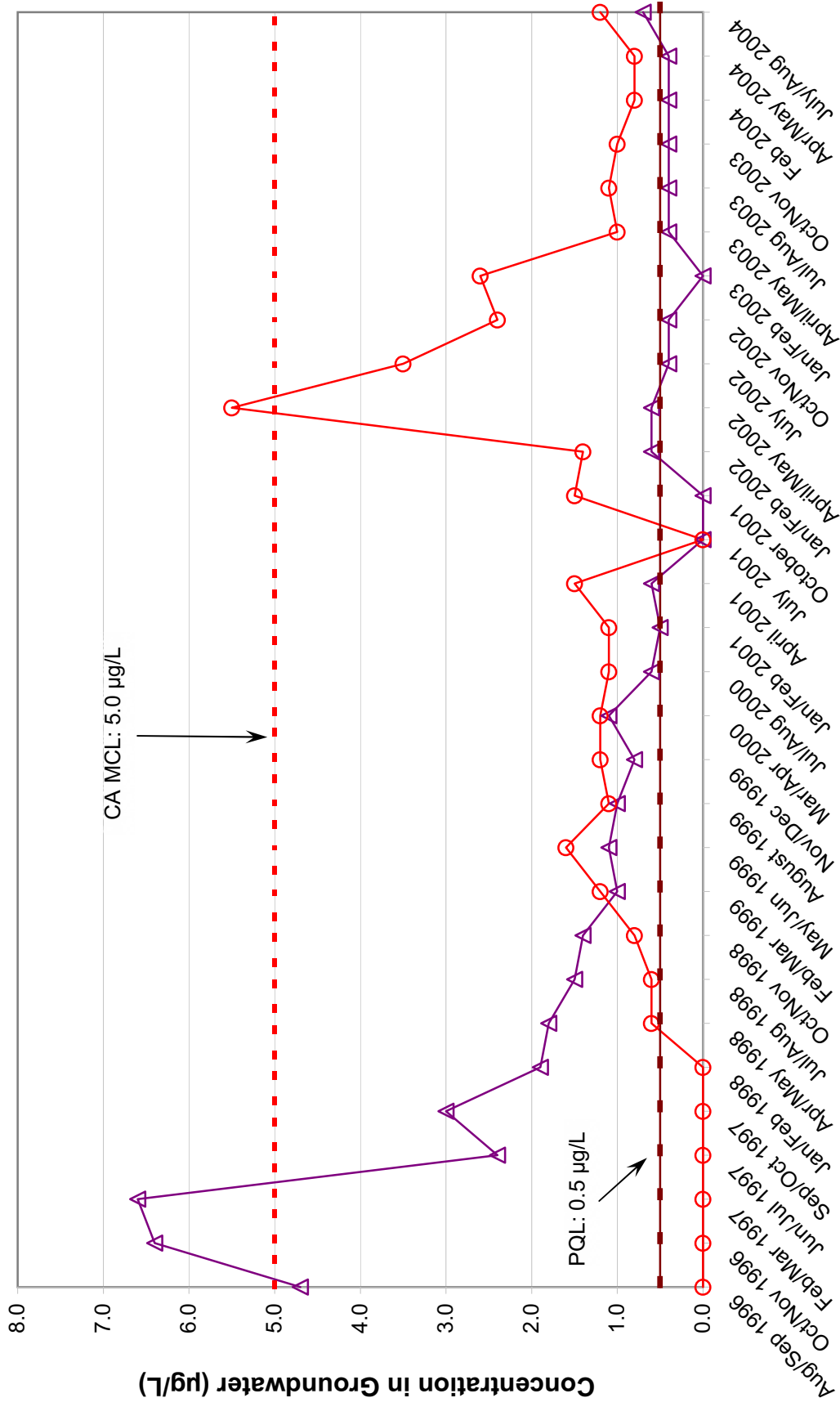
Legend

- △— Screen 3
- Screen 4
- PQL
- - - - CA MCL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

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Sampling Time

Legend

- △— Screen 3
- Screen 4
- PQL
- - - CA MCL

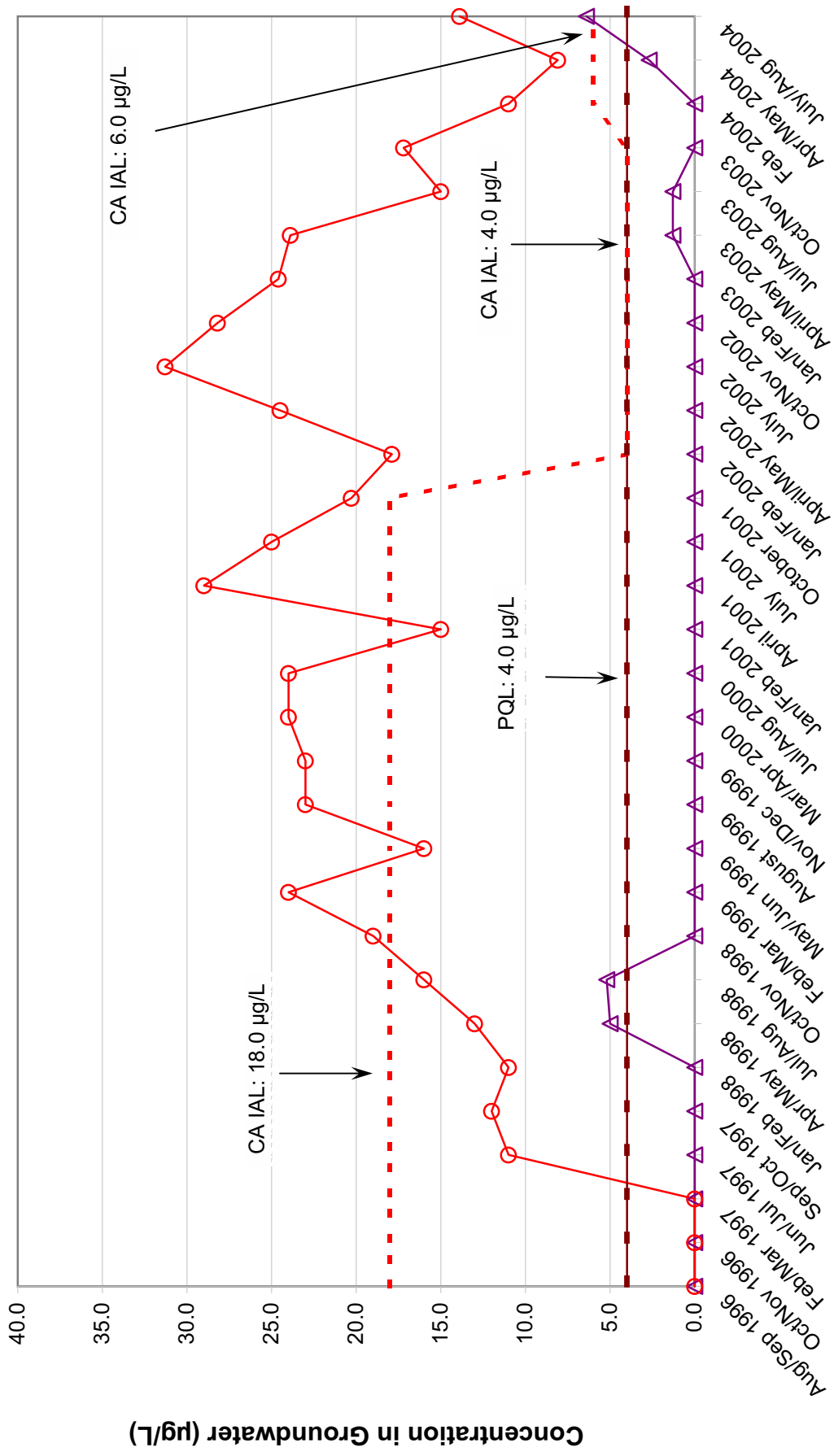
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-51

TRICHLOROETHENE DETECTED AT MW-18
 FROM AUG/SEP 1996 TO JULY/AUG 2004

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Sampling Time

Legend

- ▲ Screen 3
- Screen 4
- PQL
- - - CA IAL

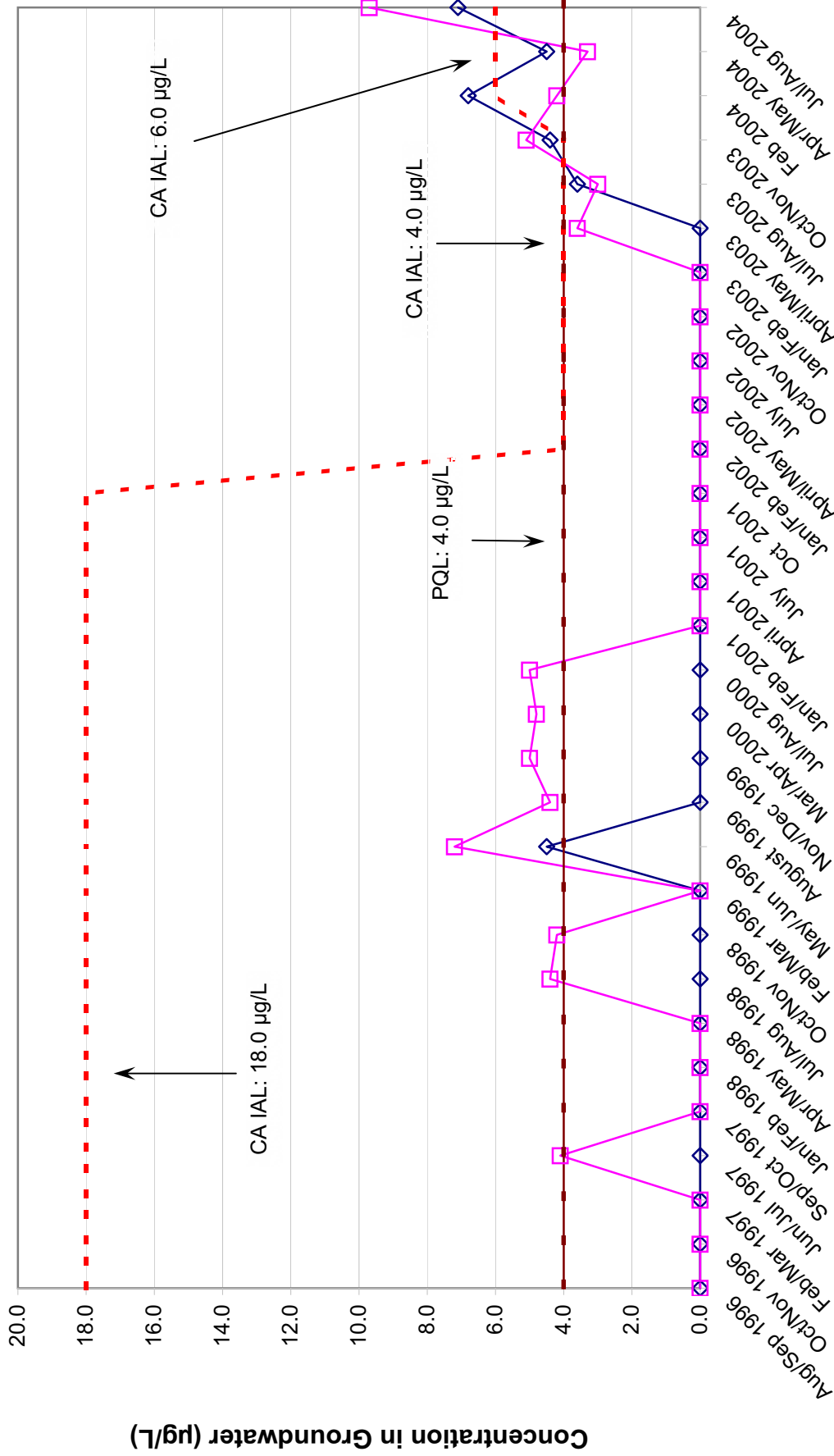
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-52

**PERCHLORATE DETECTED AT MW-18
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Sampling Time

Legend

- ◆— Screen 2
- Screen 3
- ◆— PQL
- - - CA IAL

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.

Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

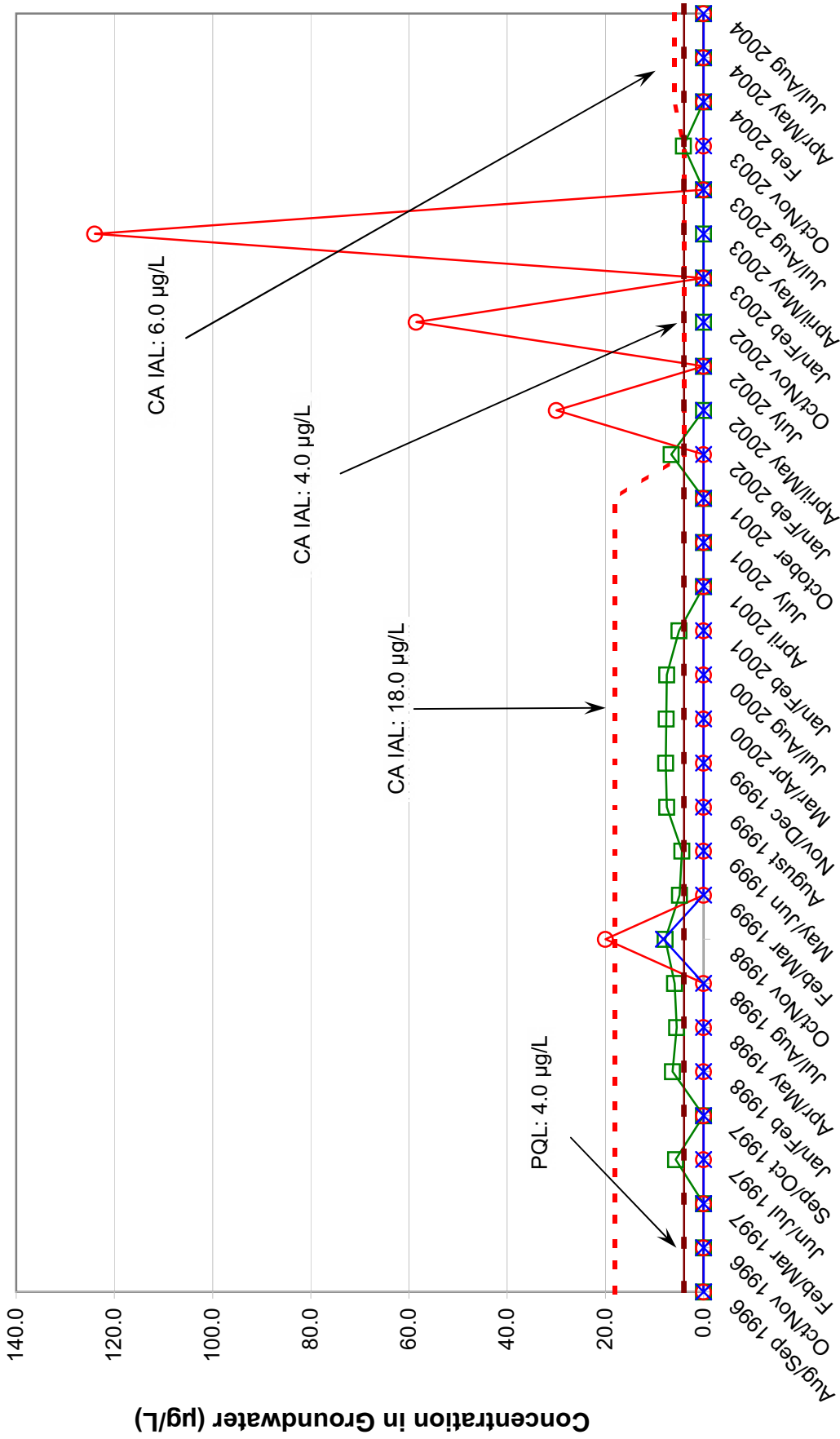
California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-53

**PERCHLORATE DETECTED AT MW-19
FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Legend

- Screen 1 (green squares)
- Screen 4 (red circles)
- Screen 5 (blue crosses)
- PQL (dashed red line)
- CA IAL (dashed red line)

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

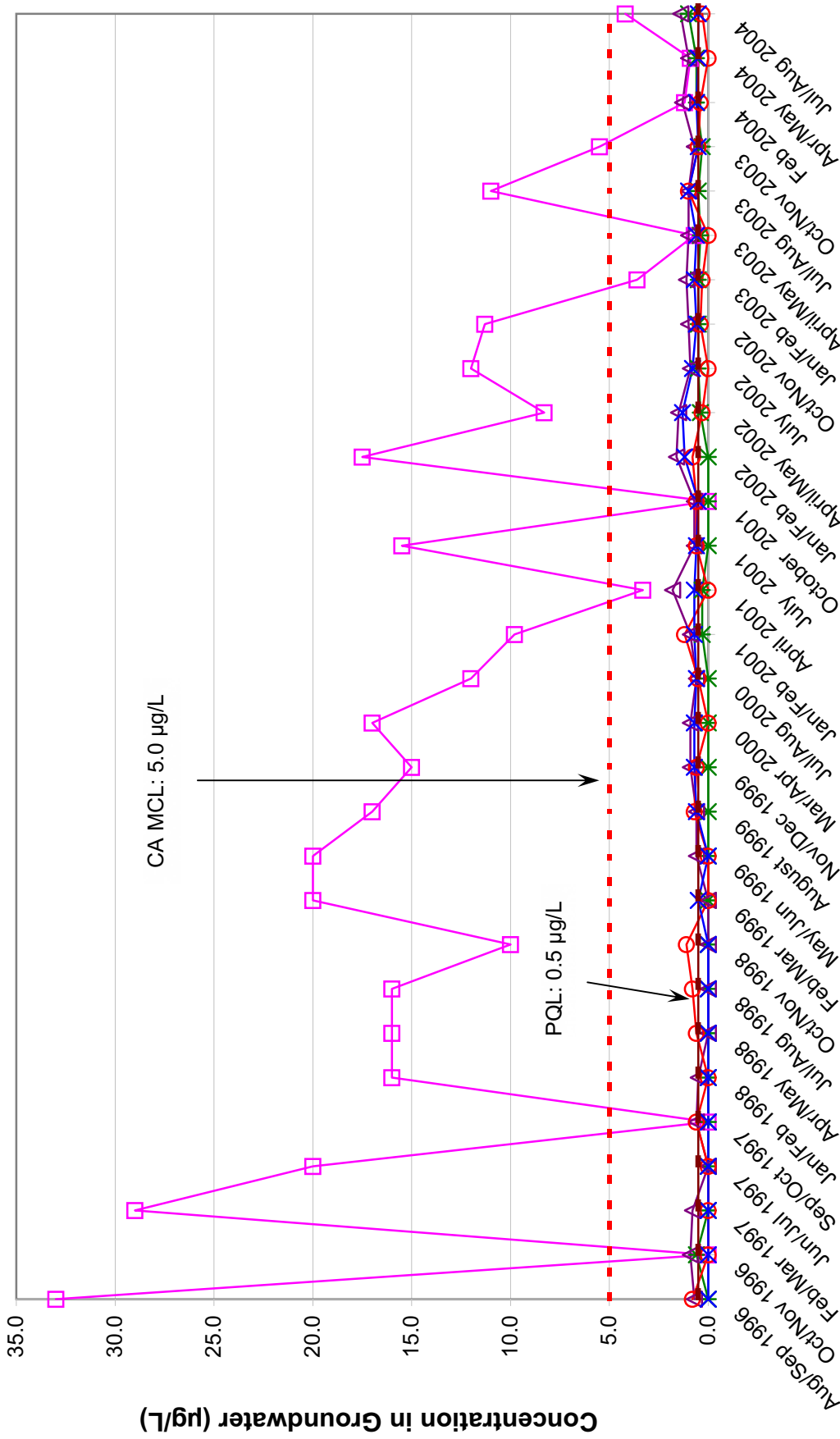
Sampling Time

FIGURE 3-54

**PERCHLORATE DETECTED AT MW-20
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Sampling Time

Legend

- Screen 1 (green square)
- Screen 2 (green asterisk)
- Screen 3 (purple triangle)
- Screen 4 (red circle)
- Screen 5 (blue cross)
- PQL (blue square)
- CA MCL (red dashed line)

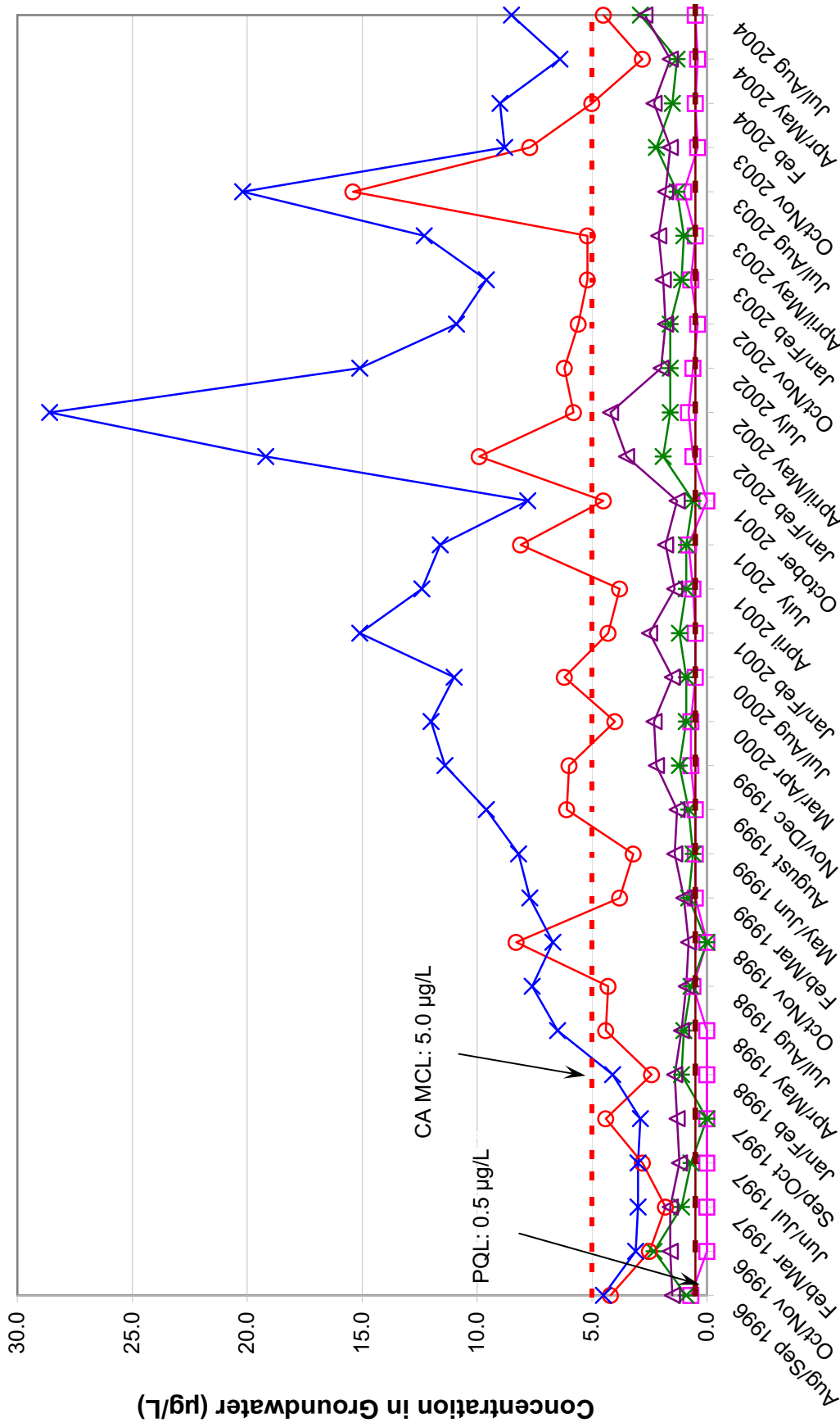
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-55

**TRICHLOROETHENE DETECTED AT MW-21
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Screen 1

Screen 2

Screen 3

Screen 4

Screen 5

PQL

CA MCL

Legend

- Screen 1
- Screen 2
- Screen 3
- Screen 4
- Screen 5
- PQL
- CA MCL

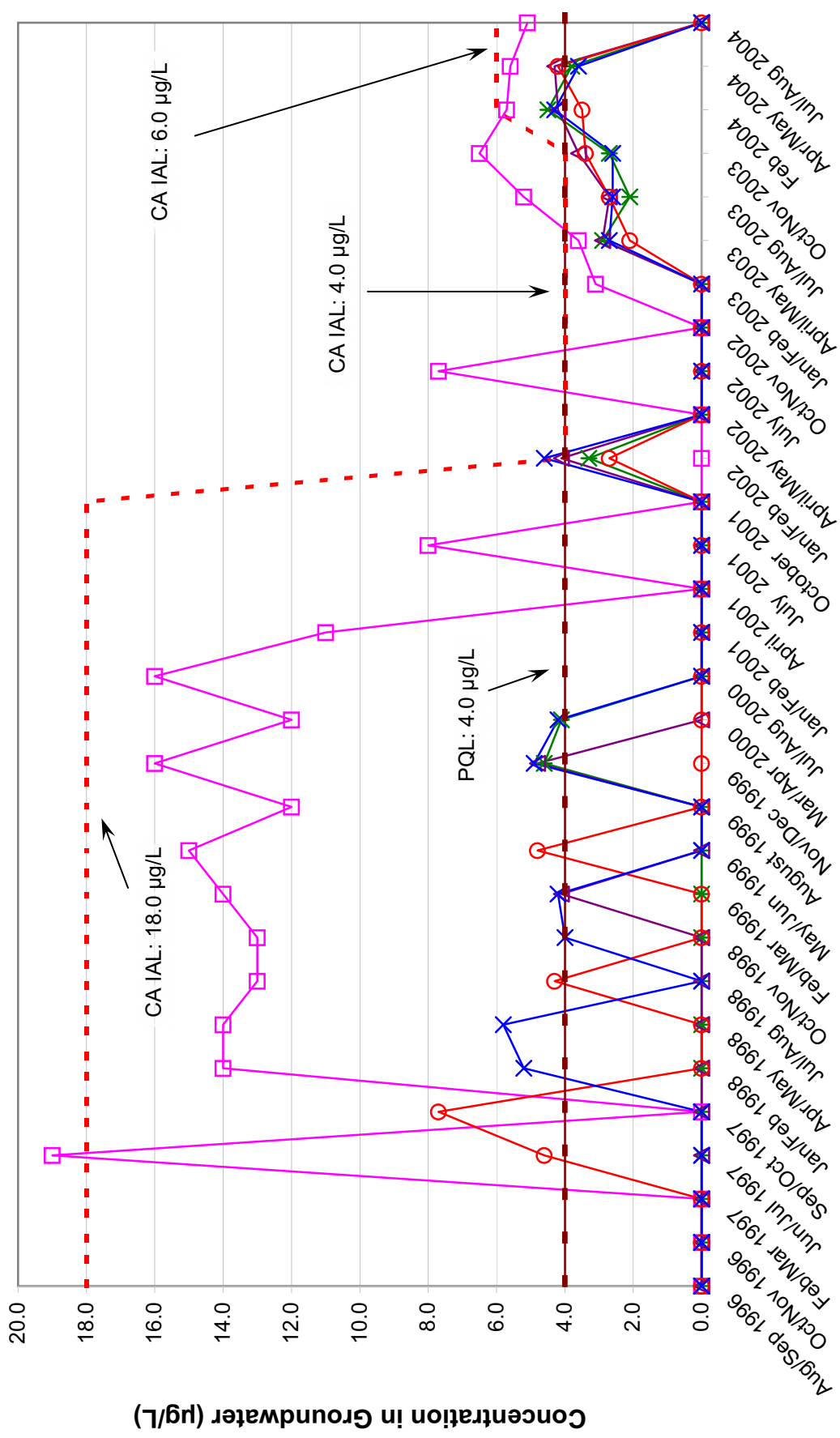
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-56

TETRACHLOROETHENE DETECTED AT MW-21
 FROM AUG/SEP 1996 TO JULY/AUG 2004

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Legend

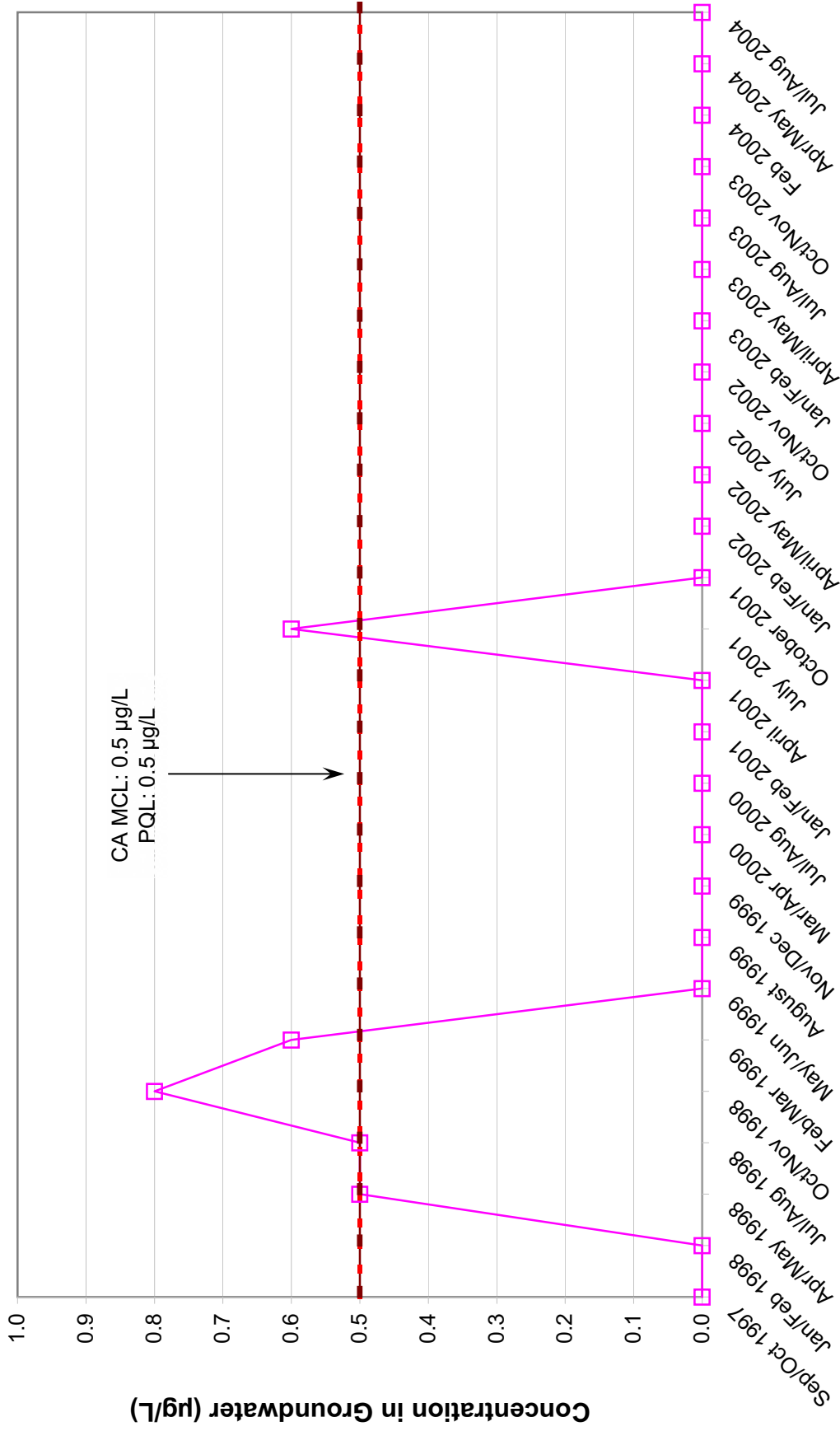
- Screen 1 (magenta square)
- Screen 2 (green asterisk)
- Screen 3 (purple triangle)
- Screen 4 (red circle)
- Screen 5 (blue cross)
- PQL (red dashed line)
- CA IAL (red dash-dot line)

Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-57

PERCHLORATE DETECTED AT MW-21
 FROM AUG/SEP 1996 TO JULY/AUG 2004





Sampling Time

Legend

Screen 1

PQL

CA MCL

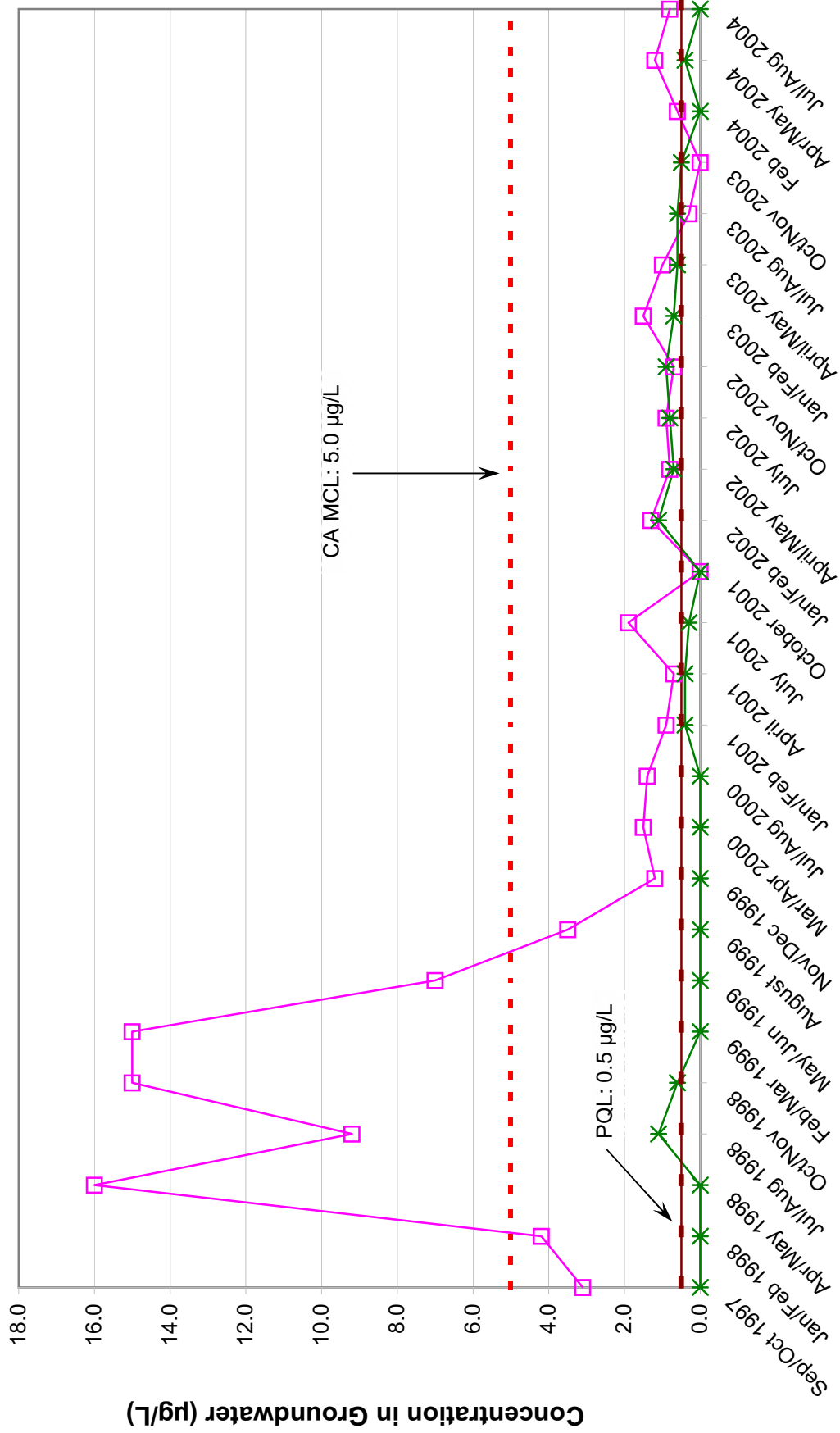
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-58

**CARBON TETRACHLORIDE DETECTED AT MW-23
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
Pasadena, California





Sampling Time

Legend

- Screen 1
- *— Screen 2
- PQL
- - - CA MCL

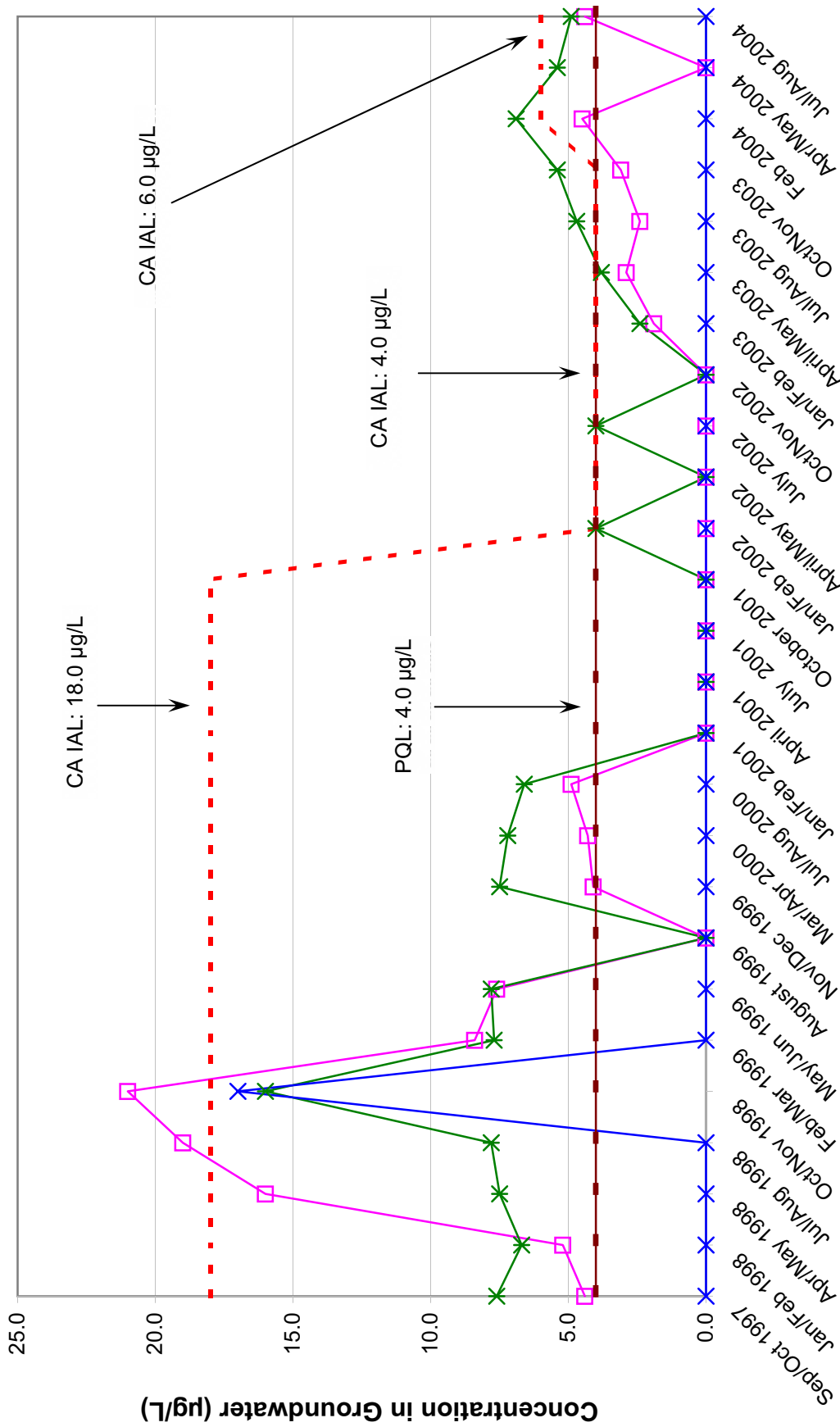
FIGURE 3-59

TRICHLOROETHENE DETECTED AT MW-23
FROM AUG/SEP 1996 TO JULY/AUG 2004

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Pasadena, California



Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.



Sampling Time

Legend

- Screen 1
- * Screen 2
- × Screen 5
- PQL
- - - CA IAL

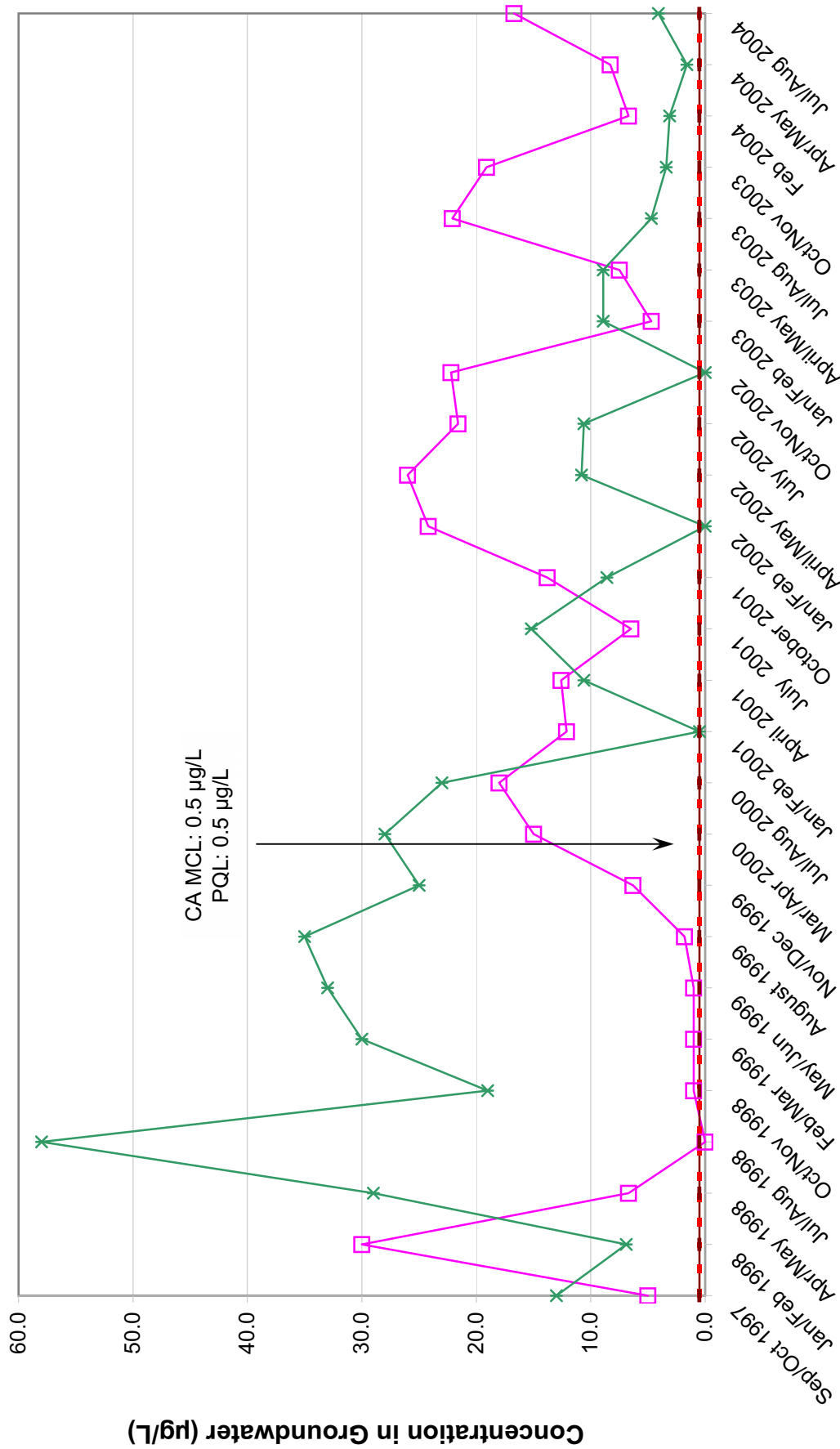
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

FIGURE 3-60

**PERCHLORATE DETECTED AT MW-23
 FROM AUG/SEP 1996 TO JULY/AUG 2004**

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Sampling Time

Legend

- Screen 1
- *— Screen 2
- PQL
- CA MCL

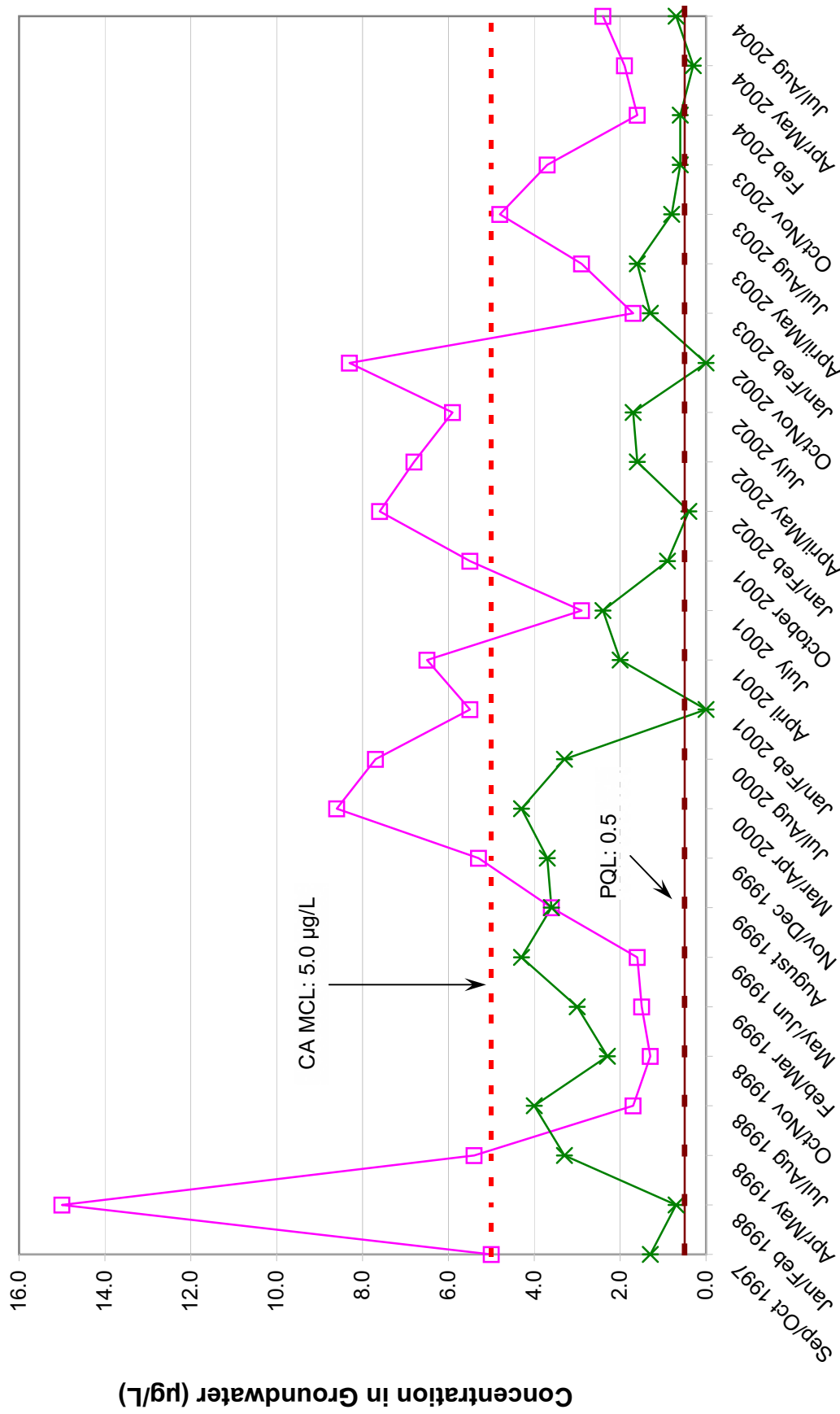
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-61

**CARBON TETRACHLORIDE DETECTED AT MW-24
FROM AUG/SEP 1996 TO JULY/AUG 2004**

Jet Propulsion Laboratory
Pasadena, California





Sampling Time

Legend

- Screen 1
- *— Screen 2
- PQL
- - - CA MCL

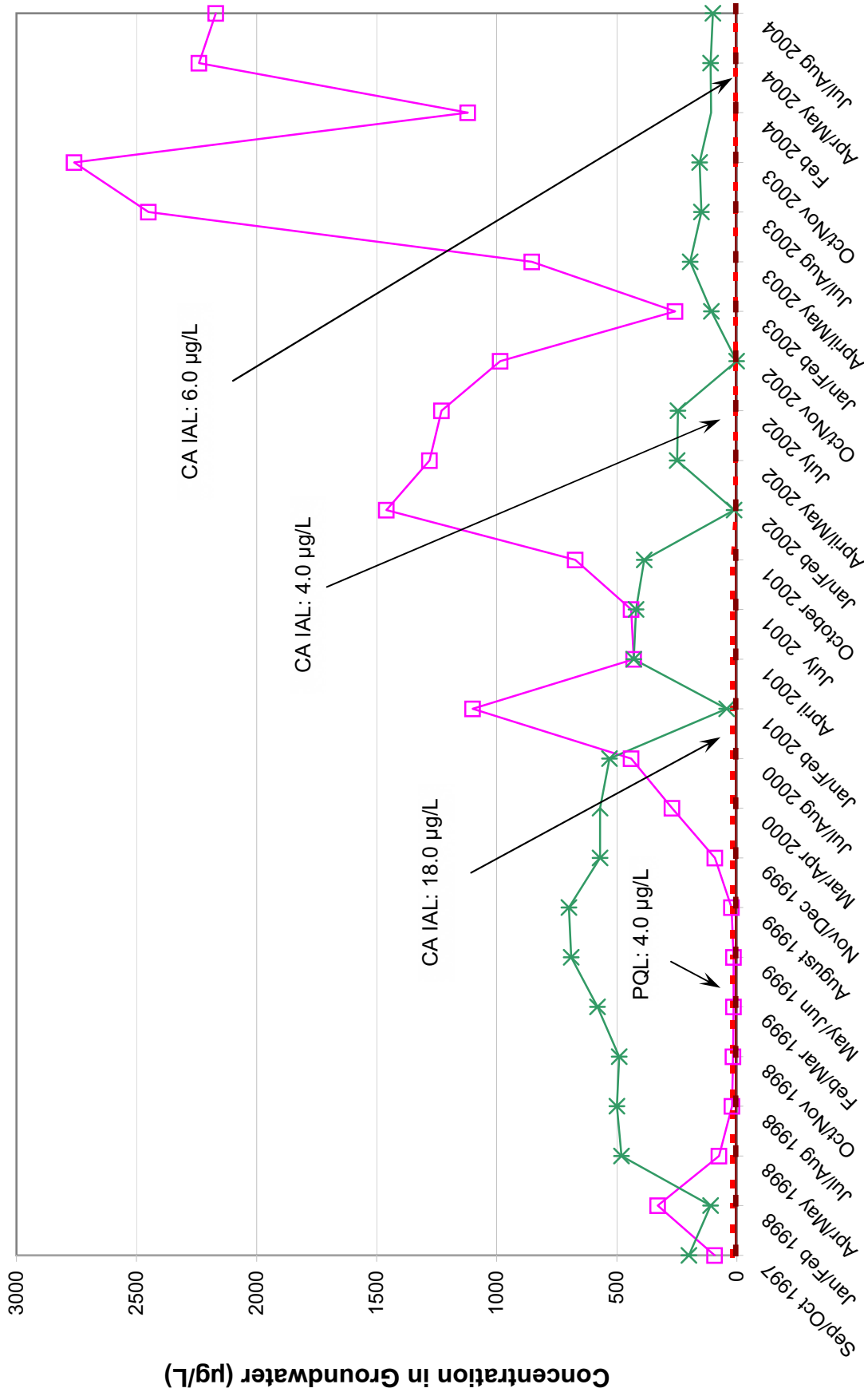
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.

FIGURE 3-62

TRICHLOROETHENE DETECTED AT MW-24
 FROM AUG/SEP 1996 TO JULY/AUG 2004

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 Pasadena, California





Concentration in Groundwater (µg/L)

Legend

- Screen 1
- *— Screen 2
- PQL
- CA IAL

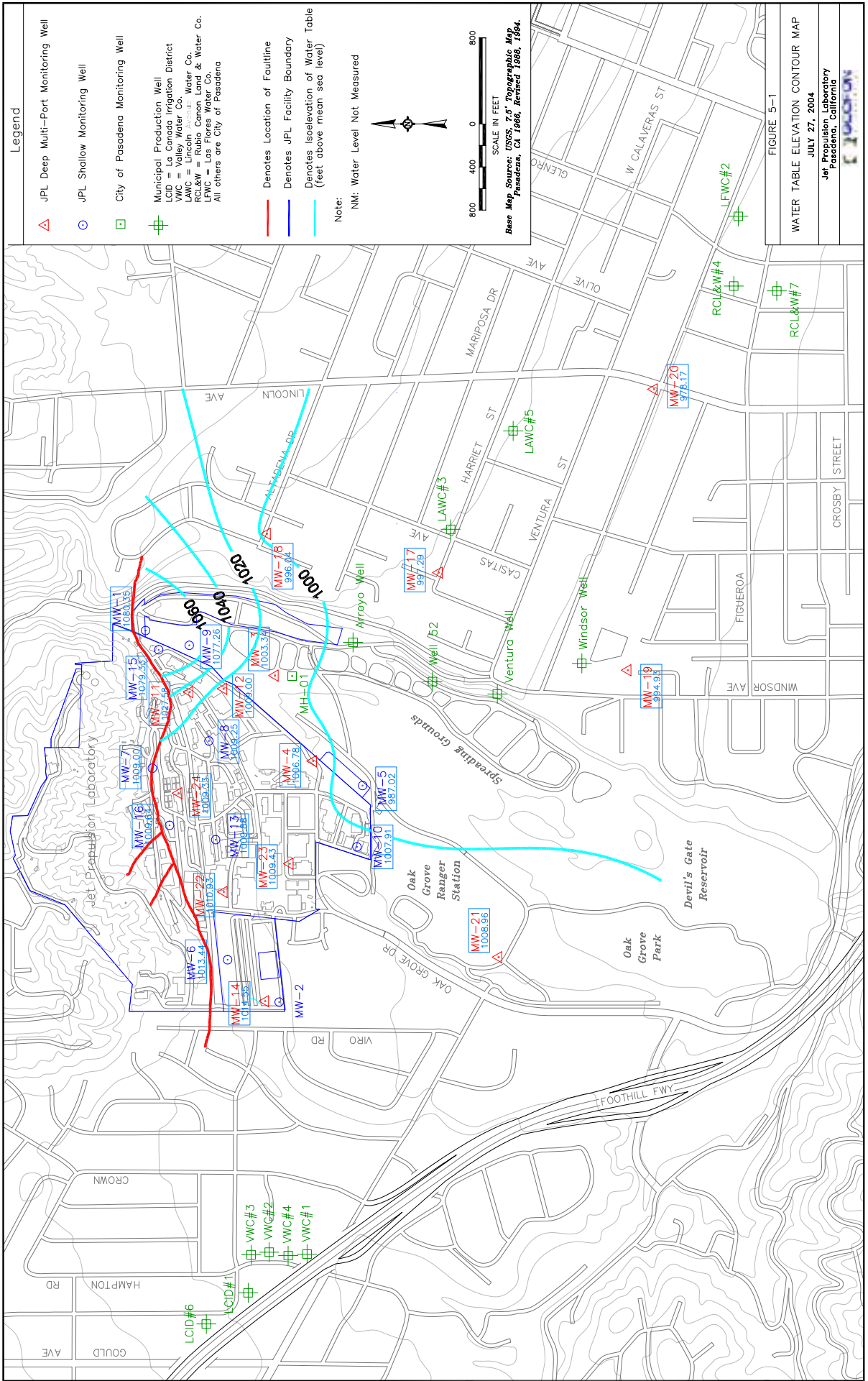
Data before Jan/Feb 2001 was obtained from Foster Wheeler Reports.
 Data before Jan/Feb 2003 was obtained from SOTA Environmental Reports.
 California Interim Action Level (CA IAL) was modified by the Dept. of Health Services in March 2004 from 4 ug/L to 6 ug/L.

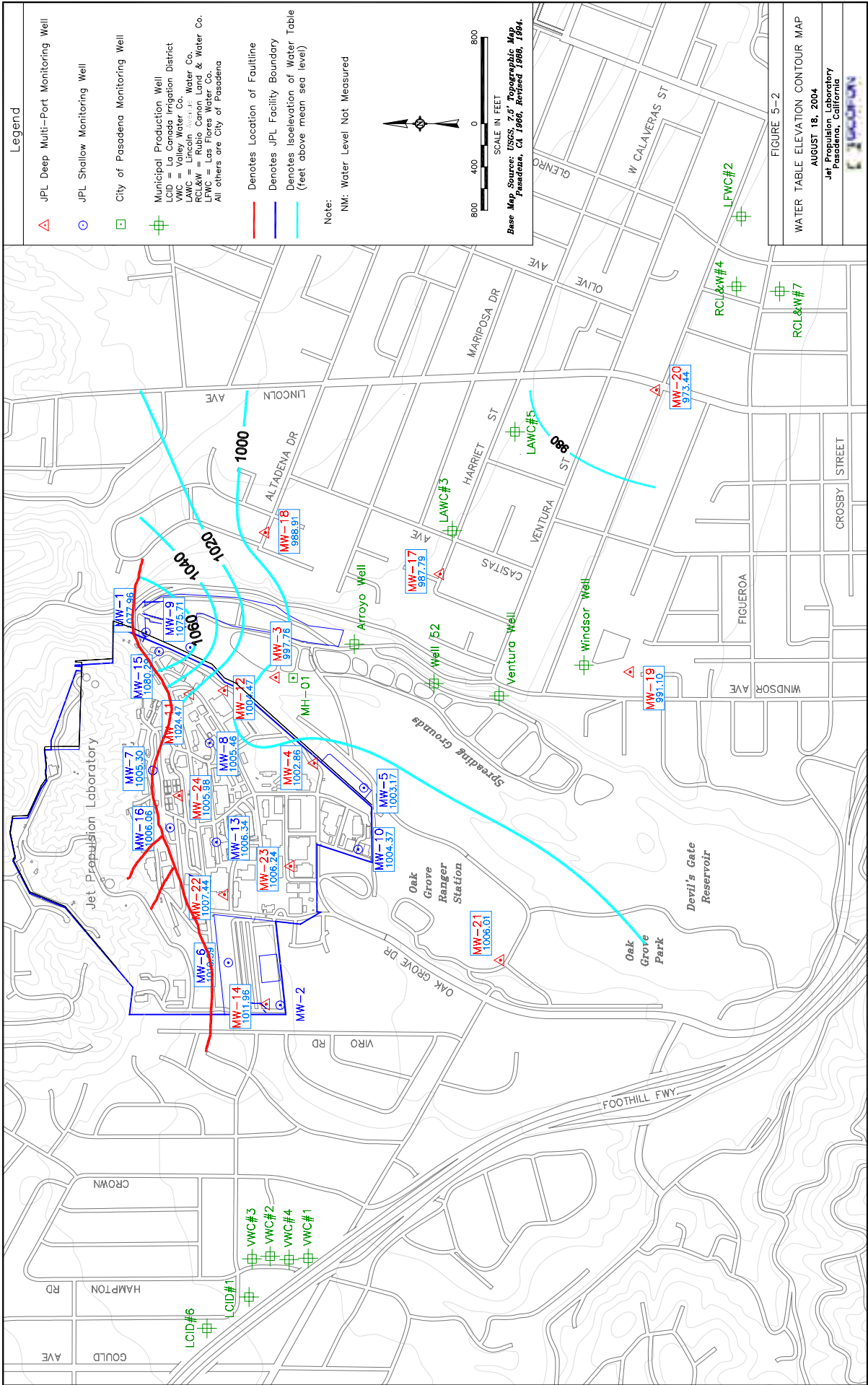
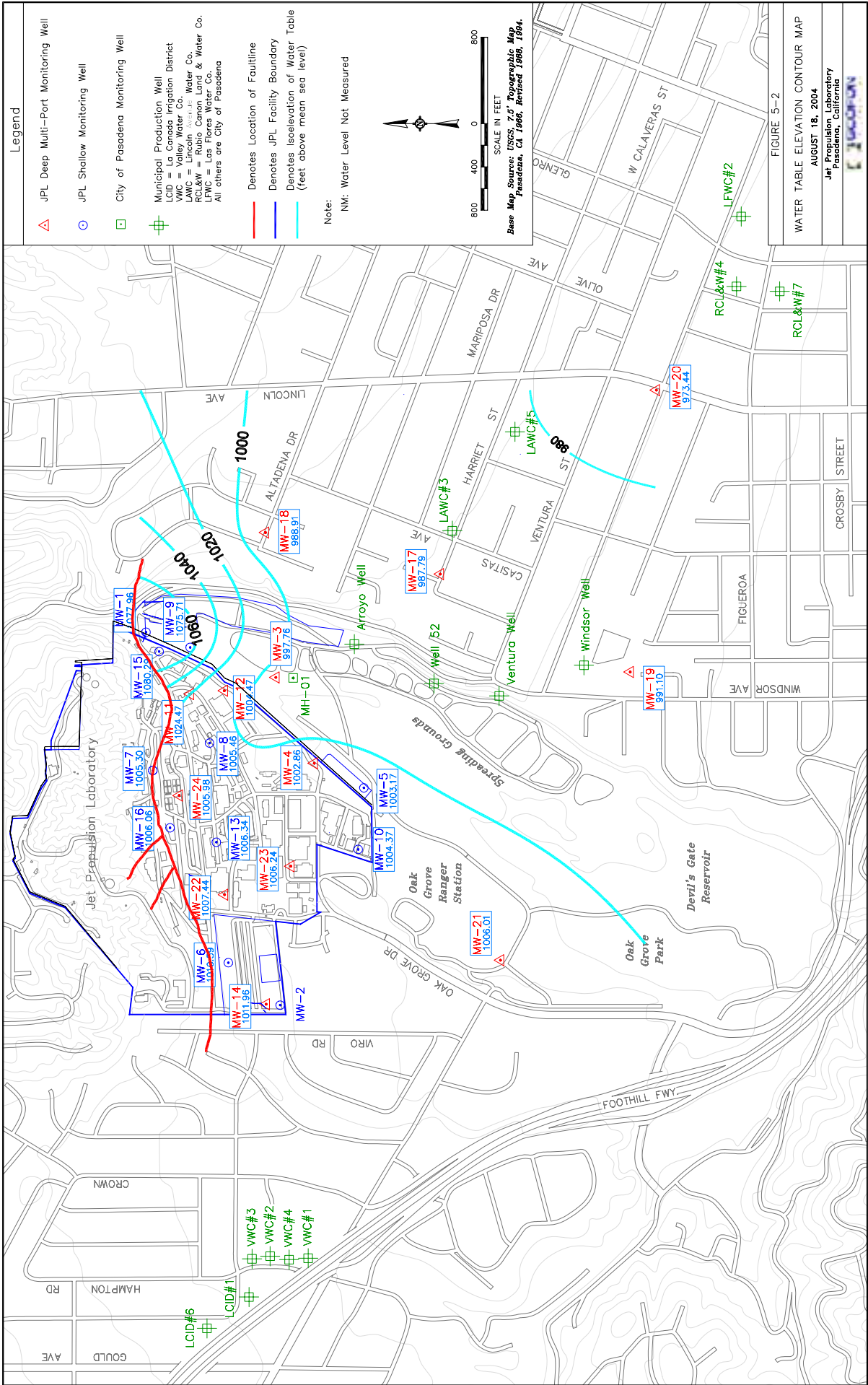
FIGURE 3-63

PERCHLORATE DETECTED AT MW-24
 FROM AUG/SEP 1996 TO JULY/AUG 2004

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Monitoring Well

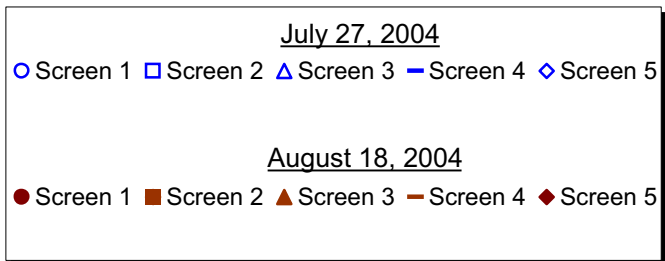
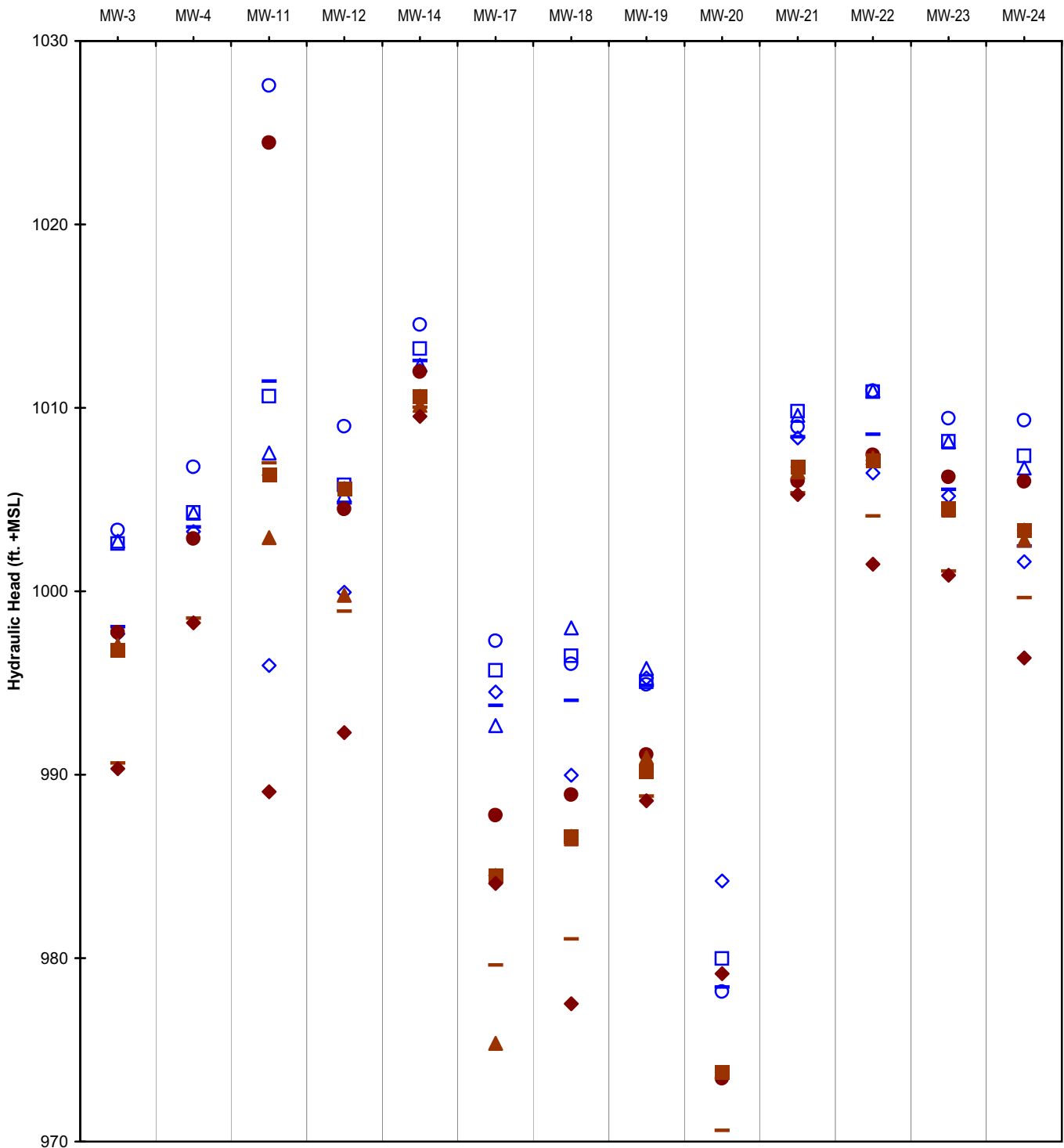


FIGURE 5-3
 Hydraulic Head Elevations
 From Deep Multi-Port Wells
 July-August 2004
 Jet Propulsion Laboratory
 Pasadena, California