

Legend

- ▲ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAW = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

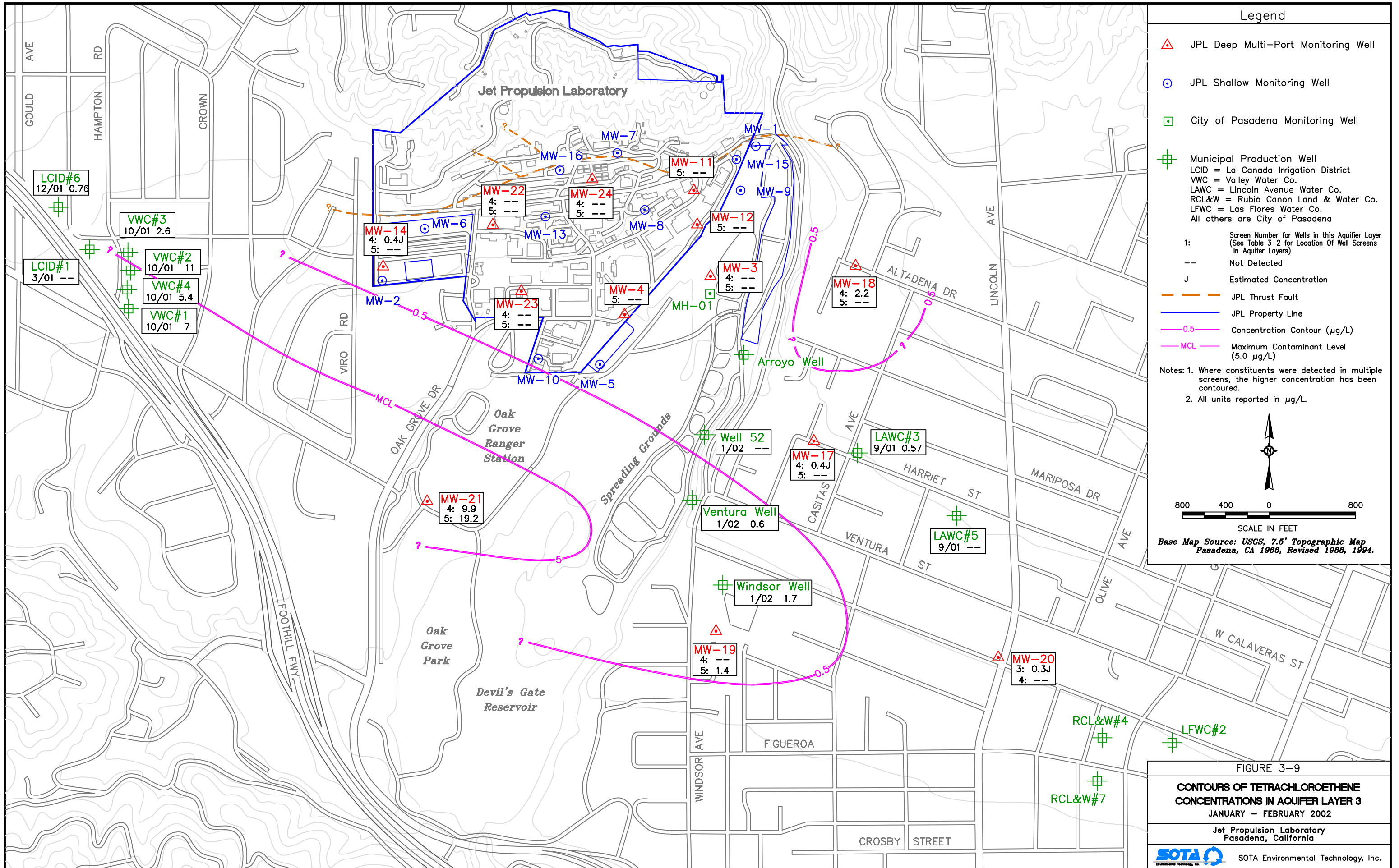
1: Screen Number for Wells in this Aquifer Layer (See Table 3-2 for Location of Well Screens in Aquifer Layers)
 -- Not Detected
 NS Not Sampled (Dry Screen)

- JPL Thrust Fault
- JPL Property Line
- 0.5 Concentration Contour (µg/L)
- MCL Maximum Contaminant Level (5.0 µg/L)

Notes: 1. Where constituents were detected in multiple screens, the higher concentration has been contoured.
 2. All units reported in µg/L.

800 400 0 800
 SCALE IN FEET
 Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 3-8
**CONCENTRATIONS OF TETRACHLOROETHENE
 IN AQUIFER LAYER 2
 JANUARY - FEBRUARY 2002**
 Jet Propulsion Laboratory
 Pasadena, California
 SOTA Environmental Technology, Inc.



Legend

- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAW = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

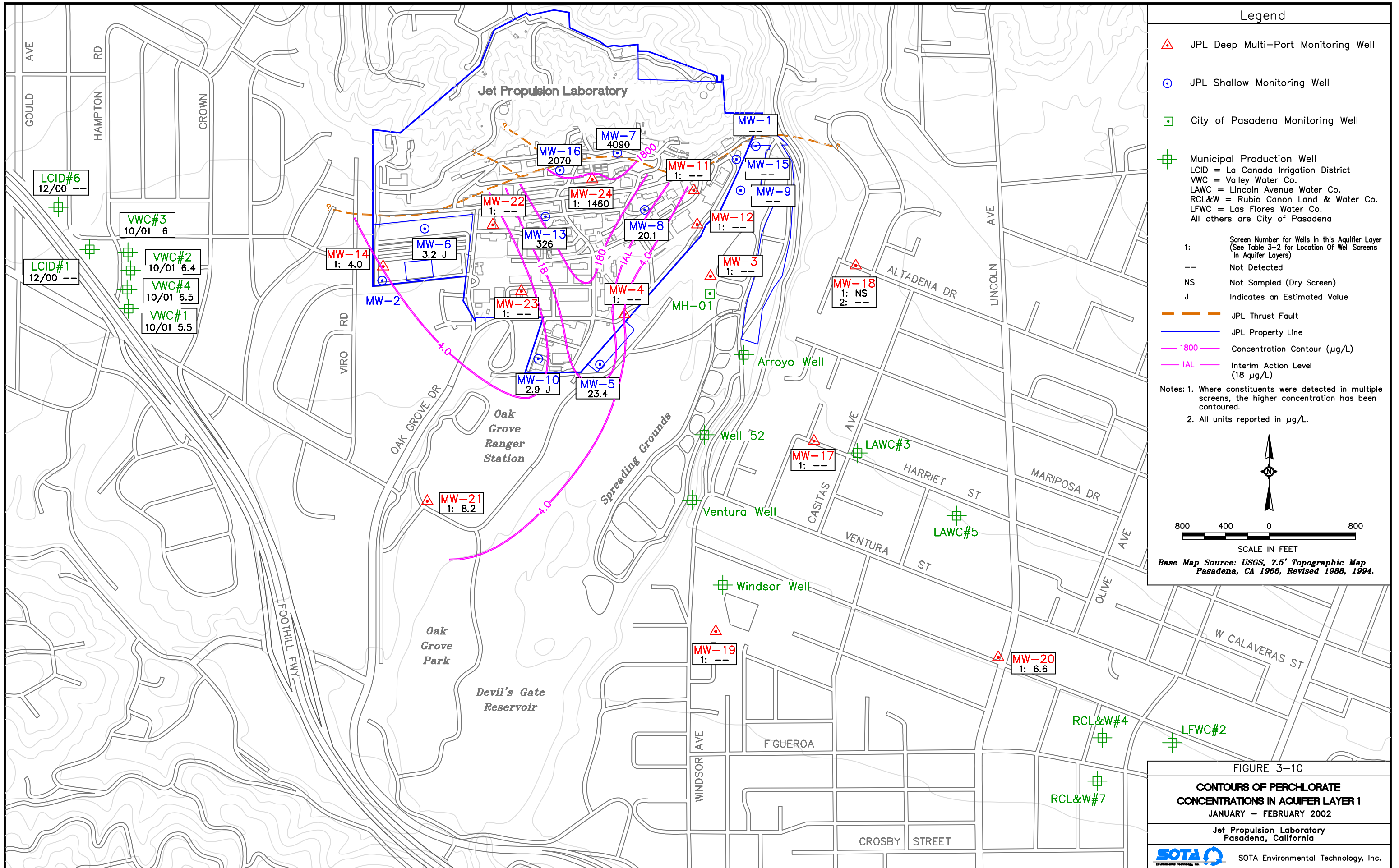
1: Screen Number for Wells in this Aquifer Layer (See Table 3-2 for Location of Well Screens in Aquifer Layers)
 -- Not Detected
 J Estimated Concentration

- JPL Thrust Fault
- JPL Property Line
- 0.5 Concentration Contour (µg/L)
- MCL Maximum Contaminant Level (5.0 µg/L)

Notes: 1. Where constituents were detected in multiple screens, the higher concentration has been contoured.
 2. All units reported in µg/L.

800 400 0 800
 SCALE IN FEET
 Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 3-9
CONTOURS OF TETRACHLOROETHENE CONCENTRATIONS IN AQUIFER LAYER 3
 JANUARY - FEBRUARY 2002
 Jet Propulsion Laboratory
 Pasadena, California
 SOTA Environmental Technology, Inc.



Legend

- ▲ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well

LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAWC = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

1: Screen Number for Wells in this Aquifer Layer (See Table 3-2 for Location Of Well Screens In Aquifer Layers)
 -- Not Detected
 NS Not Sampled (Dry Screen)
 J Indicates an Estimated Value

- JPL Thrust Fault
- JPL Property Line
- 1800 Concentration Contour (µg/L)
- IAL Interim Action Level (18 µg/L)

Notes: 1. Where constituents were detected in multiple screens, the higher concentration has been contoured.
 2. All units reported in µg/L.

800 400 0 800

SCALE IN FEET

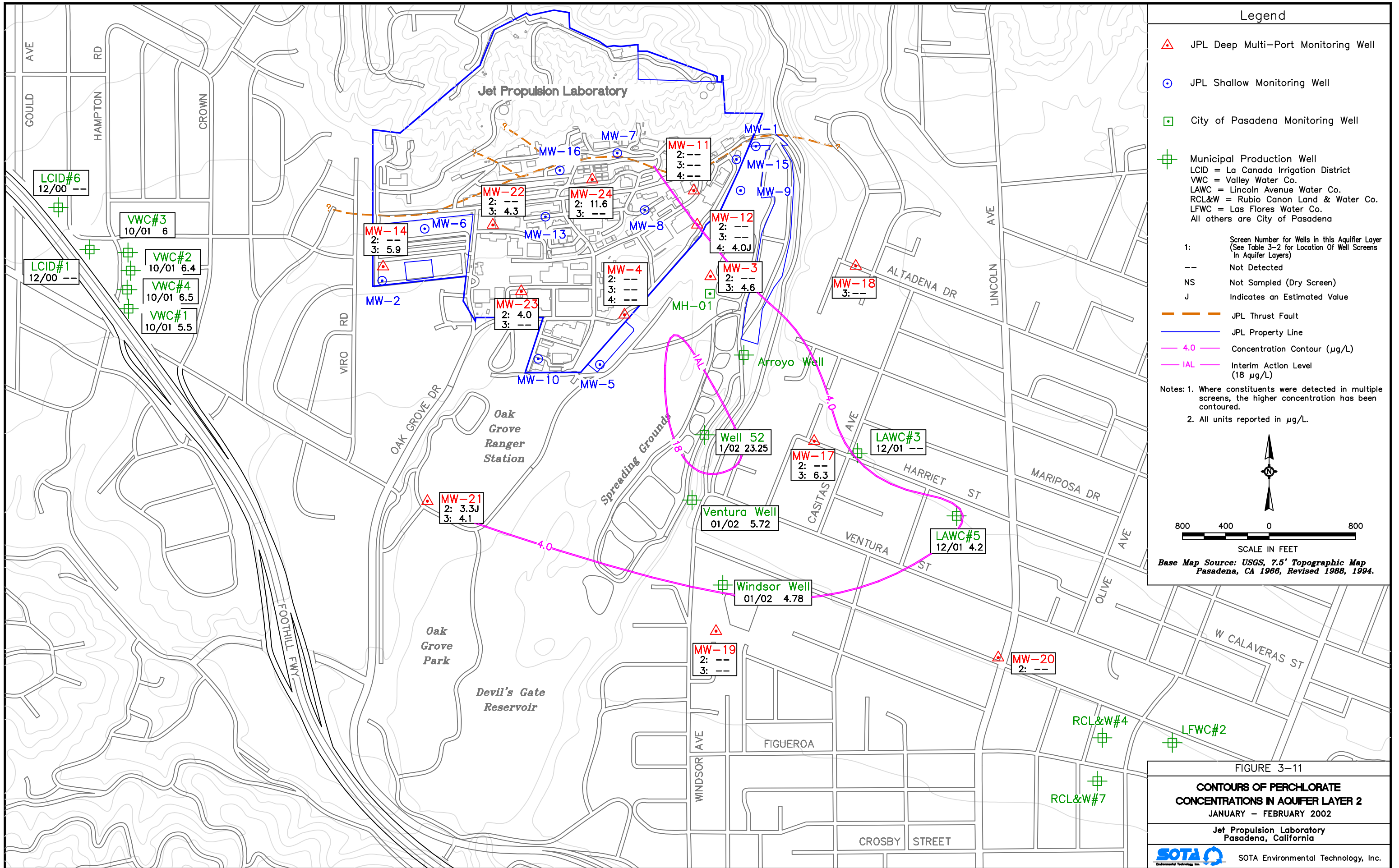
Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 3-10

CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 1
 JANUARY - FEBRUARY 2002

Jet Propulsion Laboratory
 Pasadena, California

SOTA Environmental Technology, Inc.



Legend

- ▲ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 - LCID = La Canada Irrigation District
 - VWC = Valley Water Co.
 - LAWC = Lincoln Avenue Water Co.
 - RCL&W = Rubio Canon Land & Water Co.
 - LFWC = Las Flores Water Co.
 - All others are City of Pasadena

1: Screen Number for Wells in this Aquifer Layer (See Table 3-2 for Location of Well Screens in Aquifer Layers)

-- Not Detected

NS Not Sampled (Dry Screen)

J Indicates an Estimated Value

- JPL Thrust Fault
- JPL Property Line
- 4.0 Concentration Contour (µg/L)
- IAL Interim Action Level (18 µg/L)

Notes: 1. Where constituents were detected in multiple screens, the higher concentration has been contoured.

2. All units reported in µg/L.

800 400 0 800

SCALE IN FEET

Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

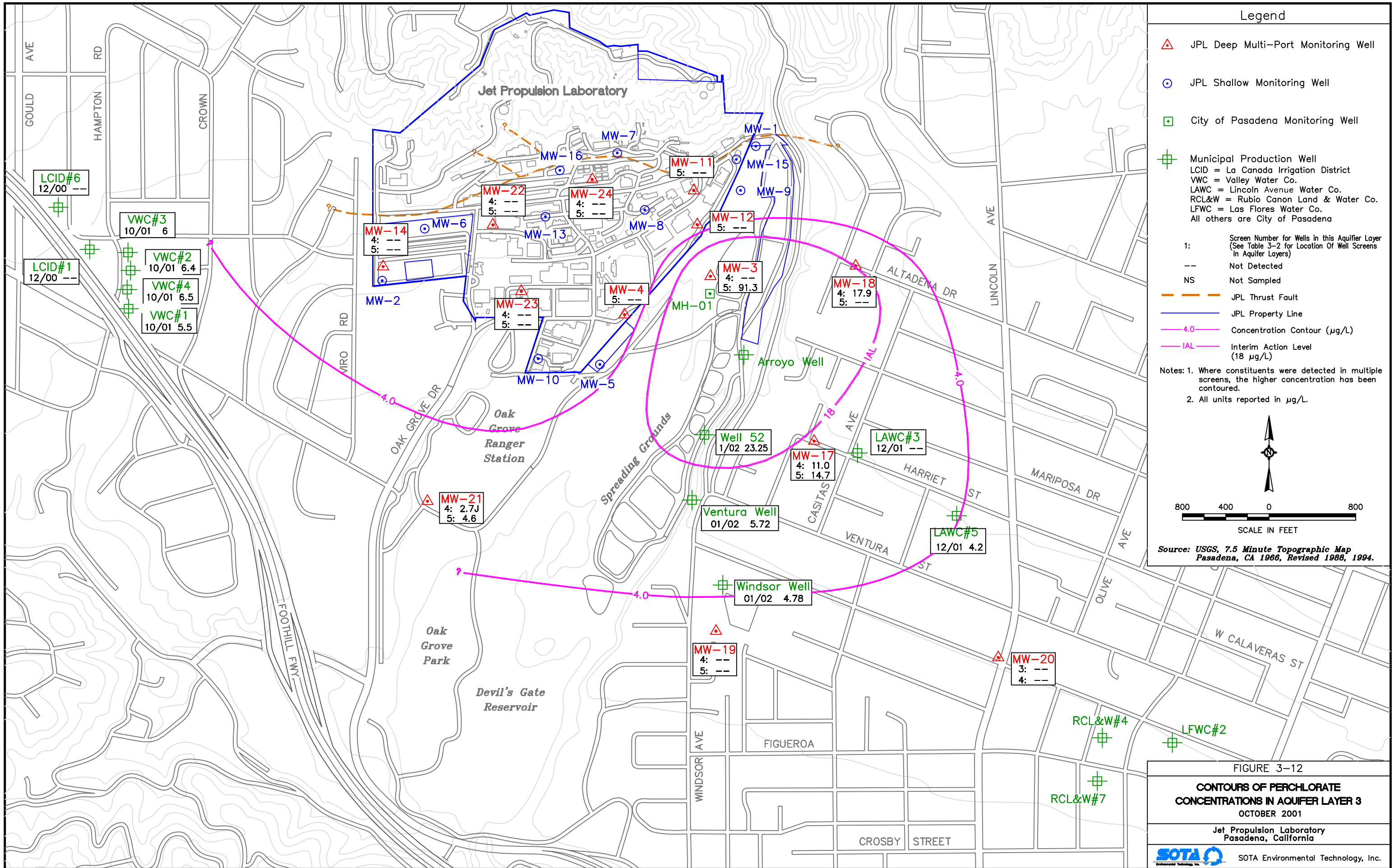
FIGURE 3-11

CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 2

JANUARY - FEBRUARY 2002

Jet Propulsion Laboratory
Pasadena, California

SOTA Environmental Technology, Inc.



Legend

- ▲ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAWG = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

1: Screen Number for Wells in this Aquifer Layer (See Table 3-2 for Location Of Well Screens In Aquifer Layers)

-- Not Detected

NS Not Sampled

--- JPL Thrust Fault

--- JPL Property Line

--- 4.0 Concentration Contour (µg/L)

--- IAL Interim Action Level (18 µg/L)

Notes: 1. Where constituents were detected in multiple screens, the higher concentration has been contoured.
 2. All units reported in µg/L.

800 400 0 800
 SCALE IN FEET

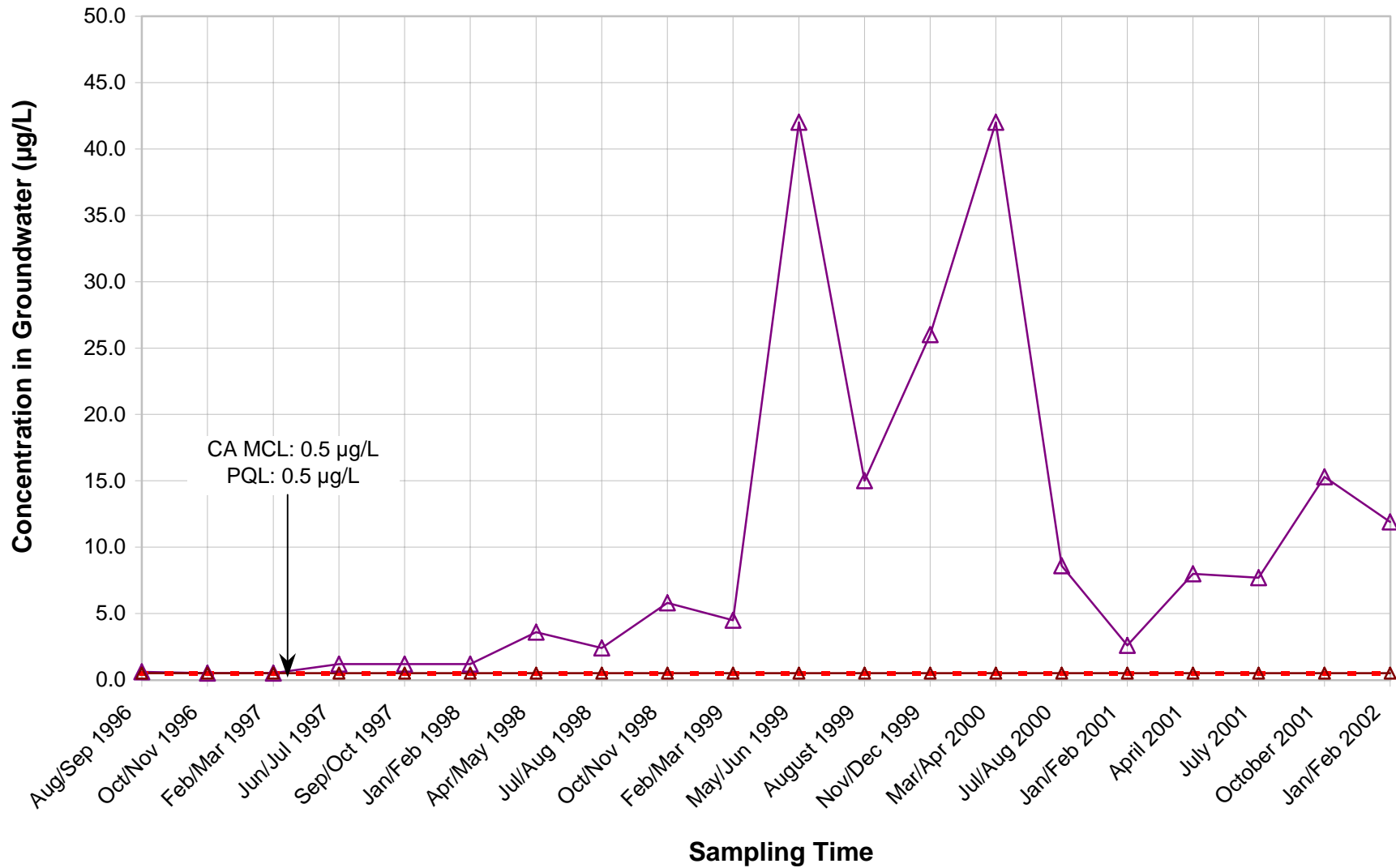
Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 3-12

CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 3
 OCTOBER 2001

Jet Propulsion Laboratory
 Pasadena, California

SOTA Environmental Technology, Inc.



Legend

—△— Screen 3 —△— PQL - - - CA MCL

Only concentrations above PQL are plotted. Screens 2 and 4 concentrations were below PQL. Screens 1 and 5 were not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

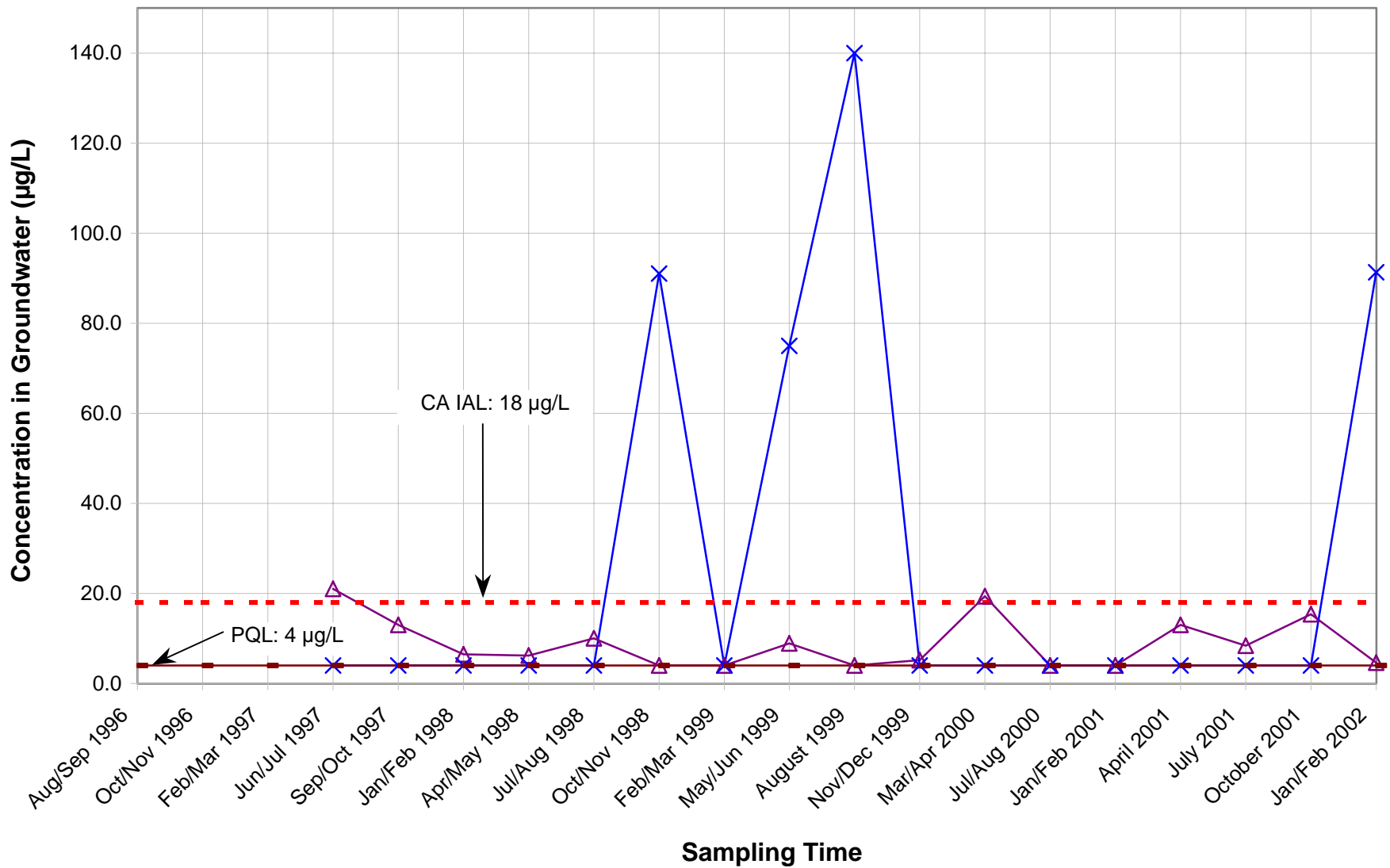
FIGURE 3-13

CARBON TETRACHLORIDE DETECTED AT MW-3 FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



Legend

▲ Screen 3
 ✕ Screen 5
 —●— PQL
 - - - CA IAL

Only concentrations above PQL are plotted. Screens 1, 2 and 4 concentrations were below PQL.
 Screen 1 was not sampled in October 2001.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

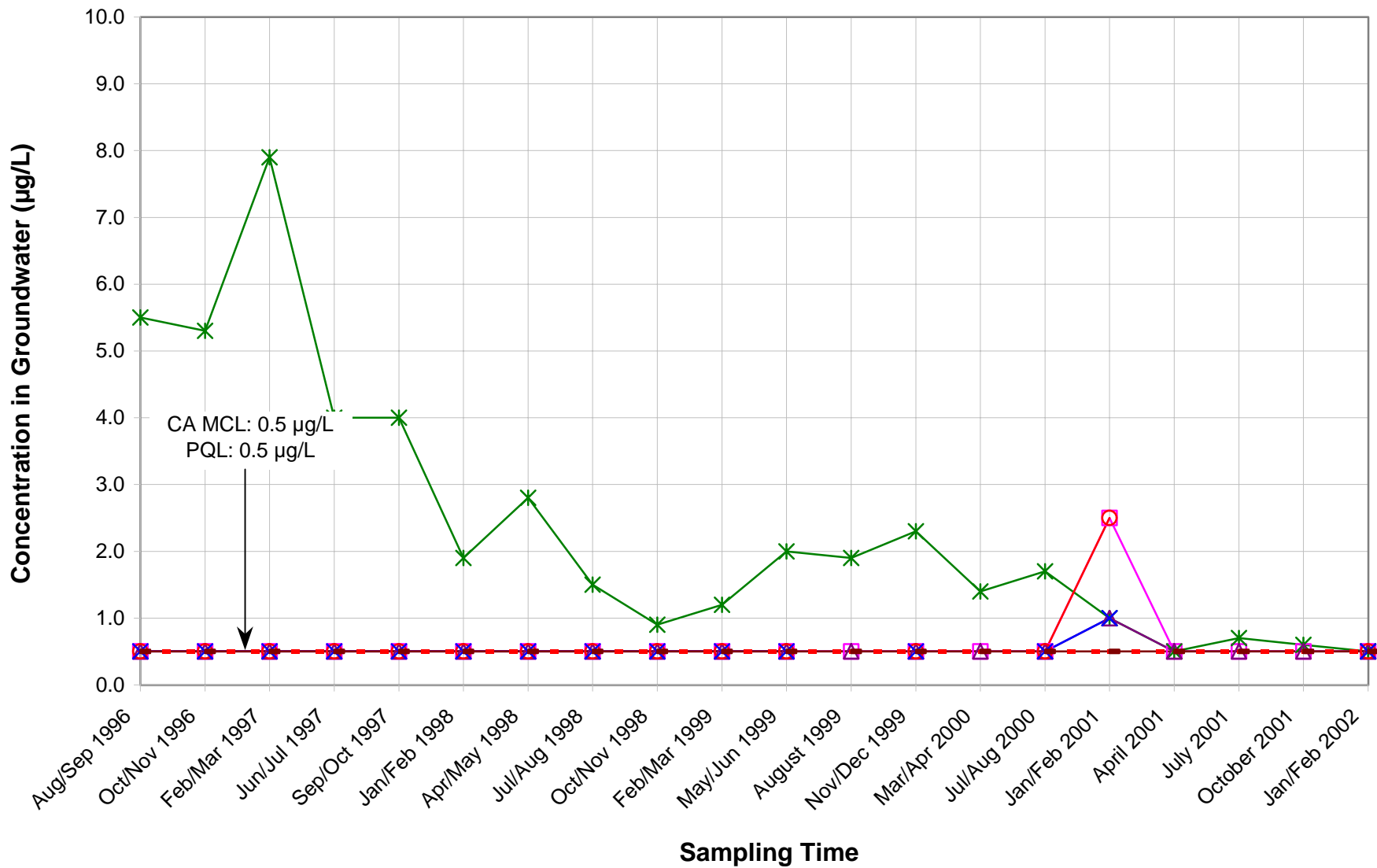
FIGURE 3-14

PERCHLORATE DETECTED AT MW-3
 FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
 Pasadena, California



SOTA Environmental Technology, Inc.



Legend

- Screen 1
- *— Screen 2
- △— Screen 3
- Screen 4
- ×— Screen 5
- PQL
- - - - CA MCL

Only concentrations above PQL are plotted. Screens 1, 2, 4, and 5 concentrations at Jan/Feb 2001 were below PQL (2.5 µg/L). Screens 4 and 5 were not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

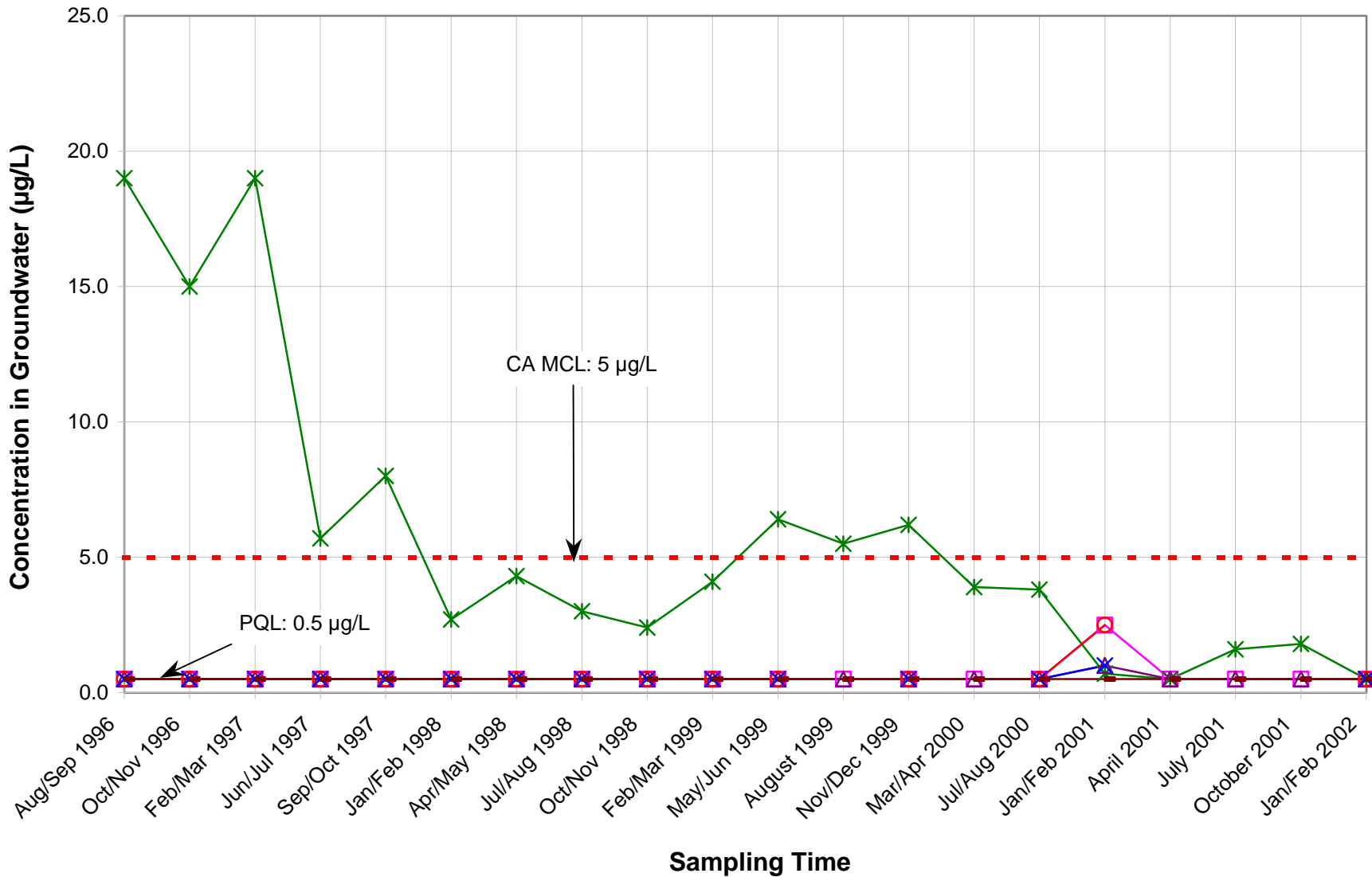
FIGURE 3-15

CARBON TETRACHLORIDE DETECTED AT MW-4 FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



Legend

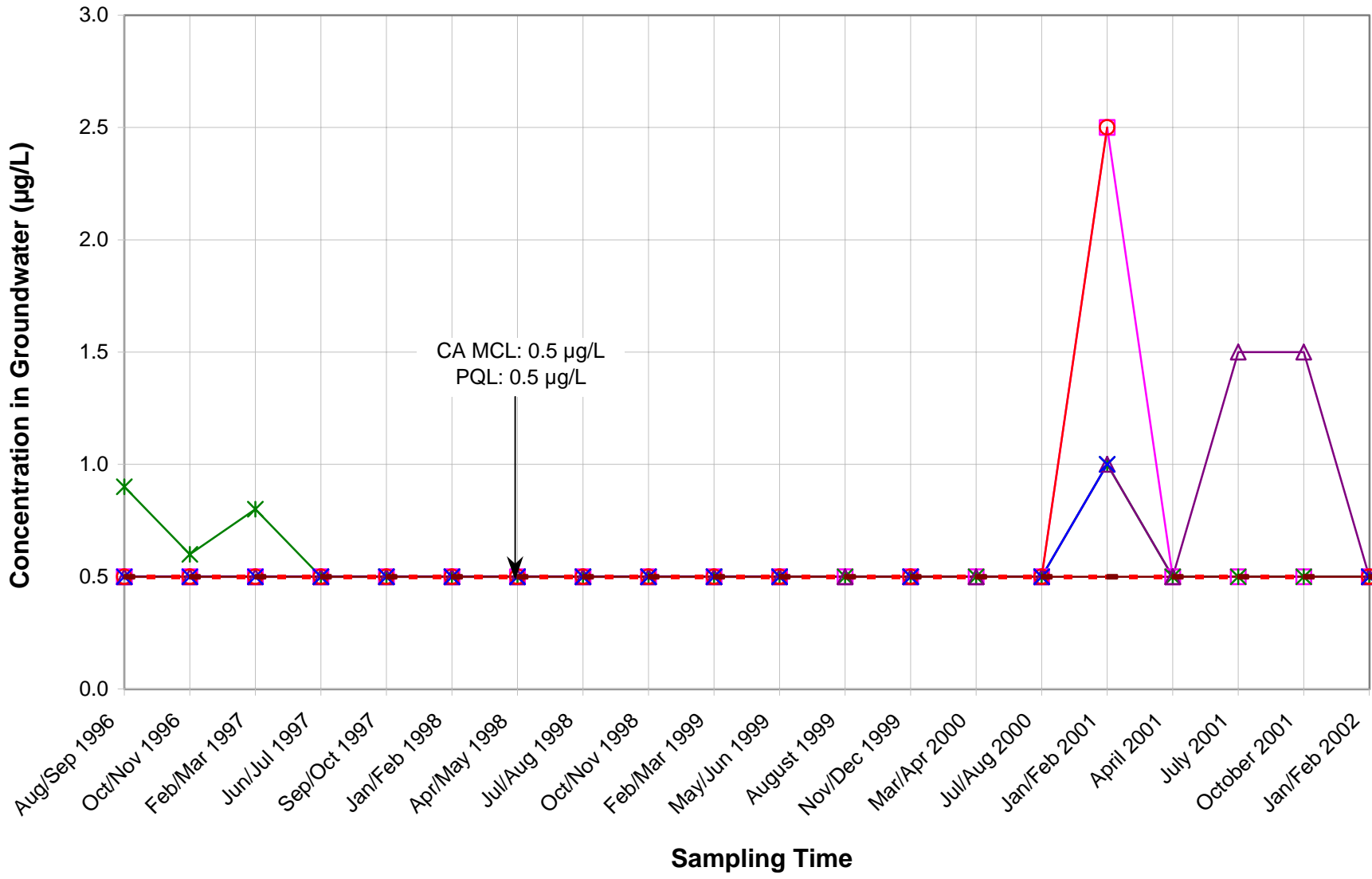
- Screen 1
- ✱ Screen 2
- △ Screen 3
- Screen 4
- ✱ Screen 5
- PQL
- - - CA MCL

Only concentrations above PQL are plotted. Screens 1, 2, 3, 4, and 5 concentrations at Jan/Feb 2001 were below PQL (2.5 µg/L). Screens 4 and 5 were not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-16
TRICHLOROETHENE DETECTED AT MW-4
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
 Pasadena, California

SOTA Environmental Technology, Inc.



Legend

- Screen 1
- *— Screen 2
- △— Screen 3
- Screen 4
- ×— Screen 5
- PQL
- - - CA MCL

Only concentrations above PQL are plotted. Screens 1, 2, 3, 4, and 5 concentrations at Jan/Feb 2001 were below PQL (2.5 µg/L). Screens 4 and 5 were not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

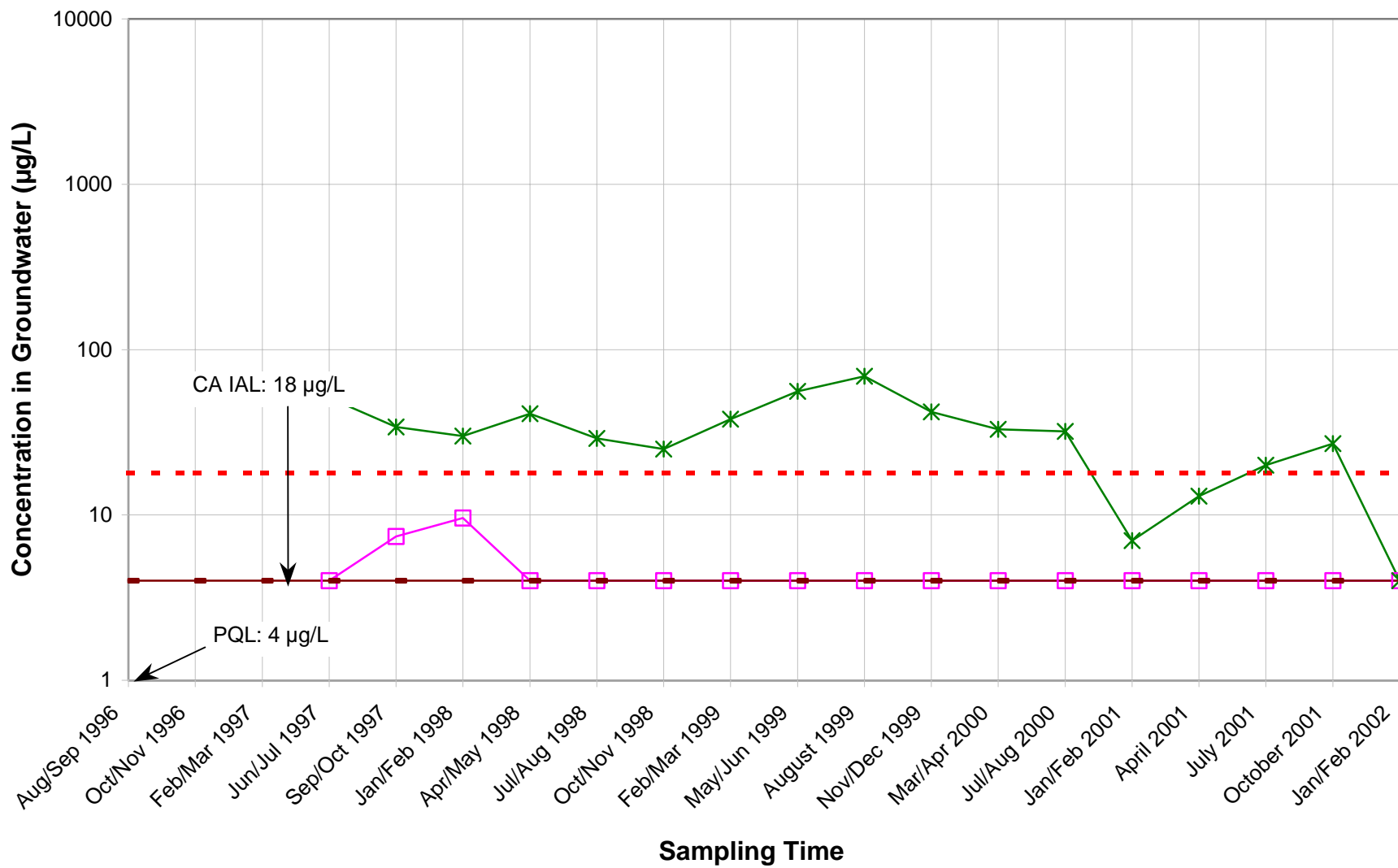
FIGURE 3-17

1, 2-DCA DETECTED AT MW-4
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



Legend

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

Only concentrations above PQL are plotted. Screens 3, 4, and 5 concentrations were below PQL.

Screens 4 and 5 were not sampled in October 2001.

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

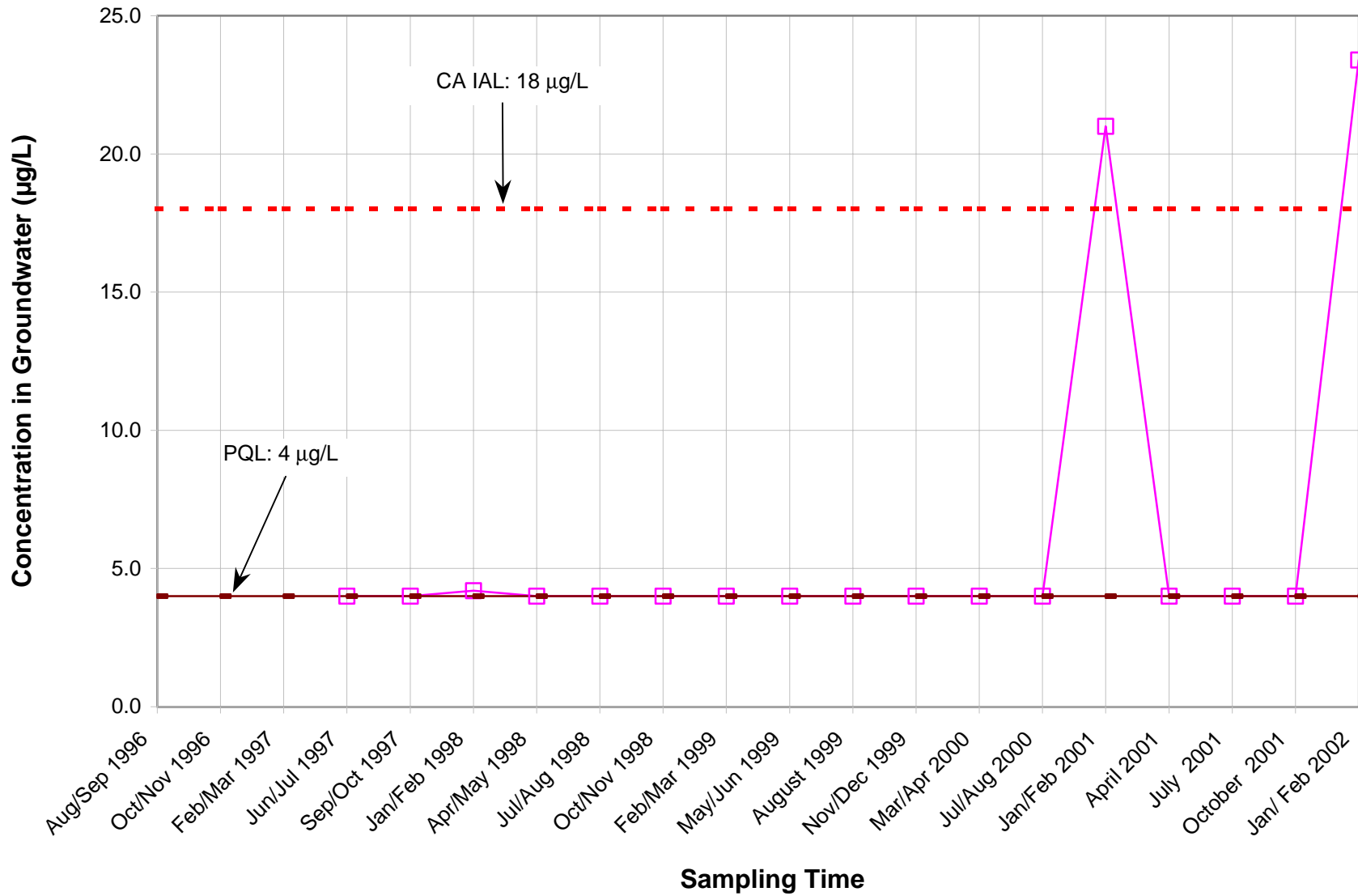
FIGURE 3-18

PERCHLORATE DETECTED AT MW-4
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California




SOTA Environmental Technology, Inc.

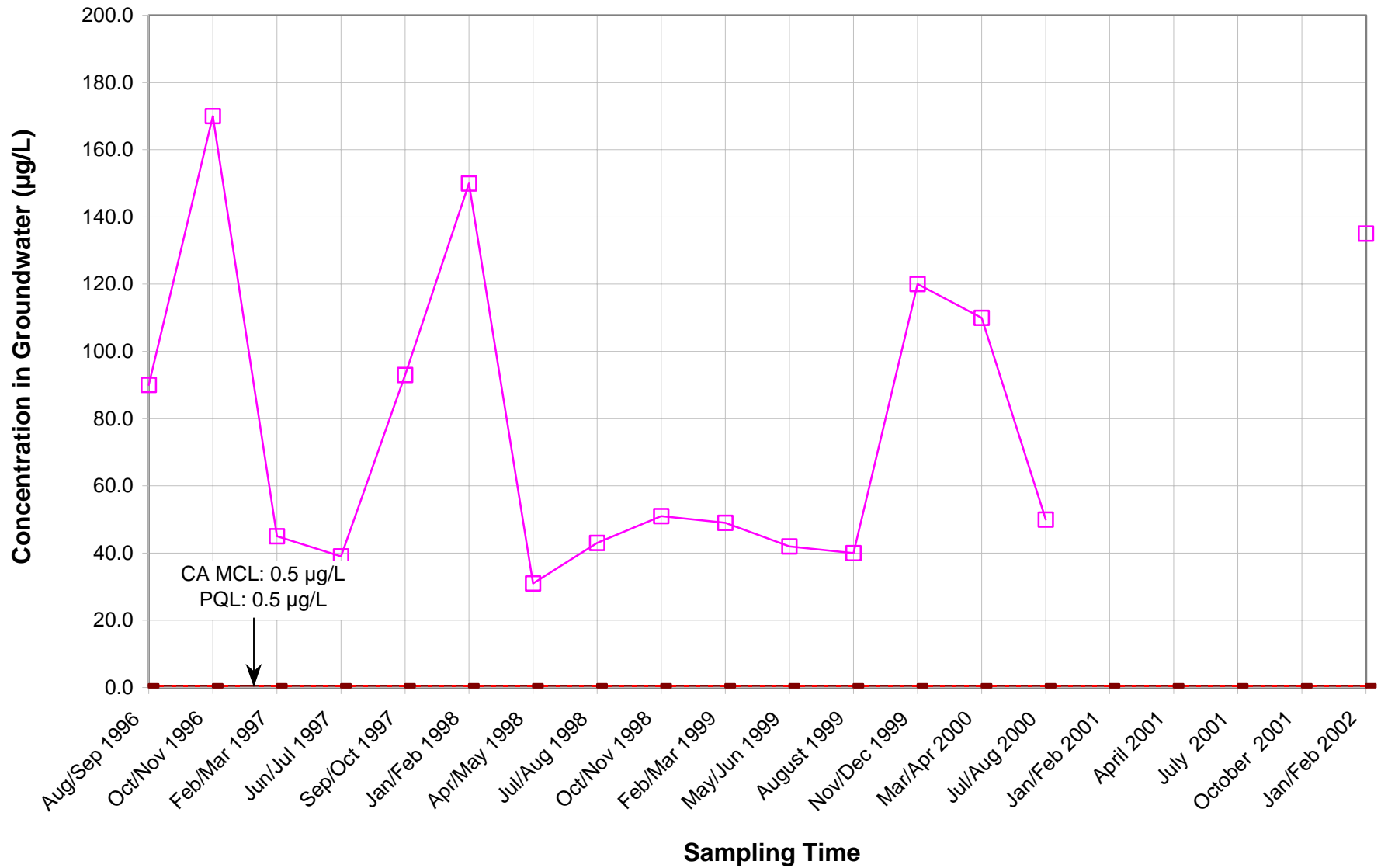


Legend

—□— Shallow Well —●— PQL - - - CA IAL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-19 PERCHLORATE DETECTED AT MW-5 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
 SOTA Environmental Technology, Inc.



Legend

—□— Shallow Well —●— PQL - - - - CA MCL

Only concentrations above PQL are plotted. 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 were obtained from Foster Wheeler Reports.

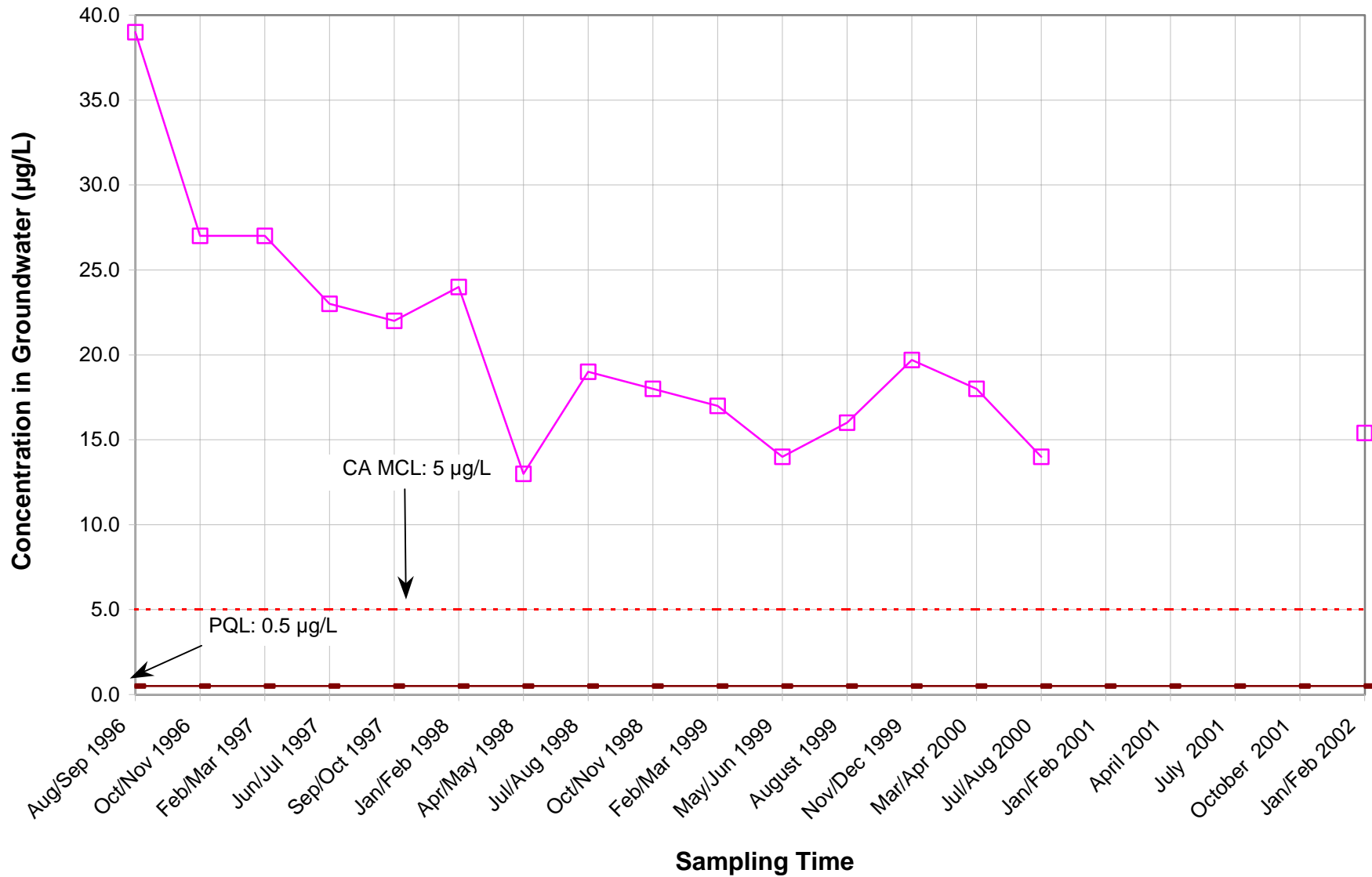
FIGURE 3-20

CARBON TETRACHLORIDE DETECTED AT MW-7 FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



Legend

- Shallow Well
- PQL
- - - CA MCL

Only concentrations above PQL are plotted. 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 were obtained from Foster Wheeler Reports.

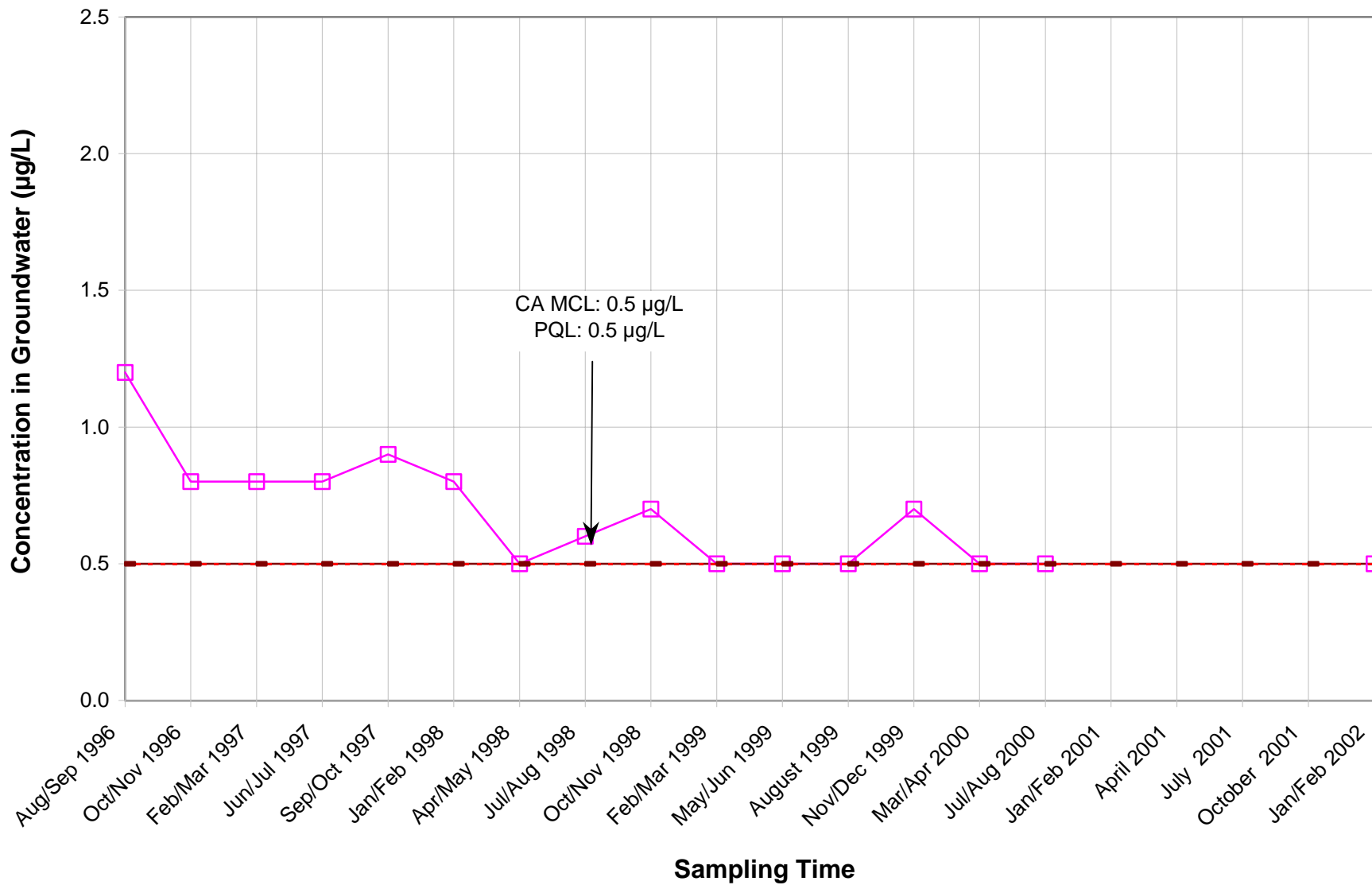
FIGURE 3-21

TRICHLOROETHENE DETECTED AT MW-7
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



Legend

—□— Shallow Well
 —●— PQL
 - - - CA MCL

Only concentrations above PQL are plotted. 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 were obtained from Foster Wheeler Reports.

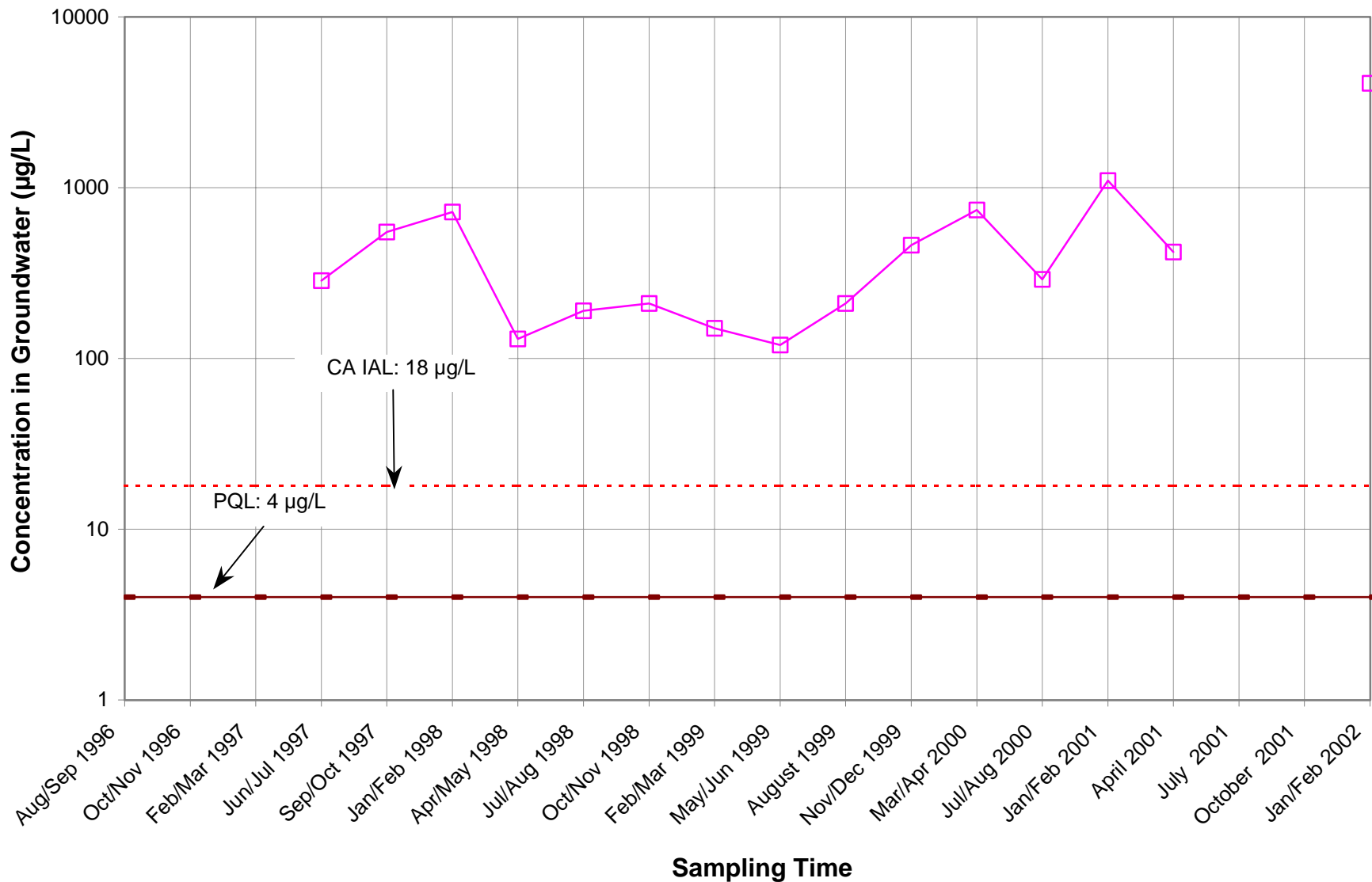
FIGURE 3-22

1, 2-DCA DETECTED AT MW-7
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



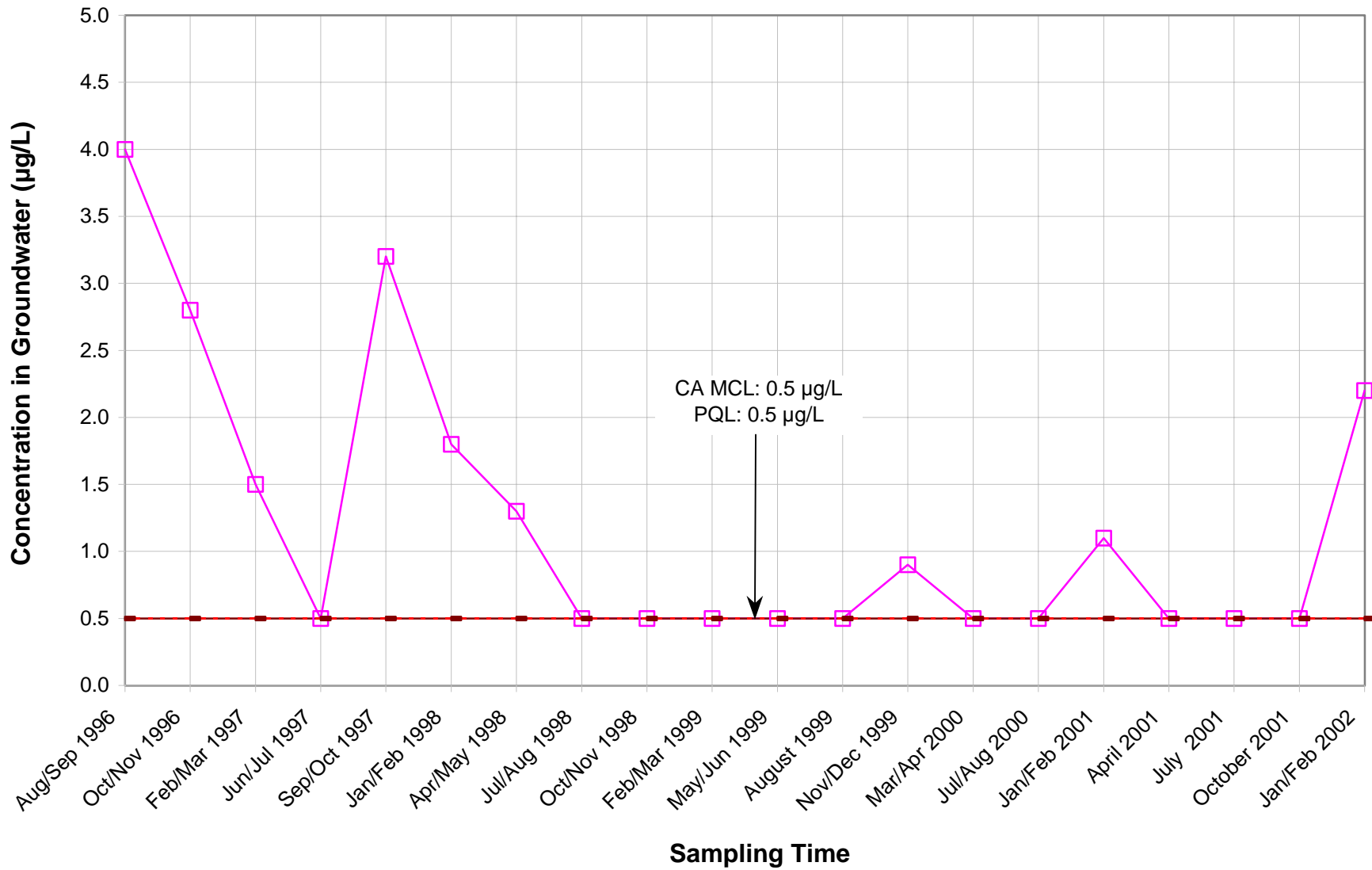
SOTA Environmental Technology, Inc.



Legend

—□— Shallow Well
 —■— PQL
 - - - CA MCL
 Only concentrations above PQL are plotted. No sample was collected during Jan/Feb, April, July, and October 2001 events due to the ongoing Pilot Test at MW-7 (Results for MW-7 obtained from US Filter Pilot Test Report).
 Values in (Y) axis are represented in Logarithmic scale.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.


FIGURE 3-23
PERCHLORATE DETECTED AT MW-7 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

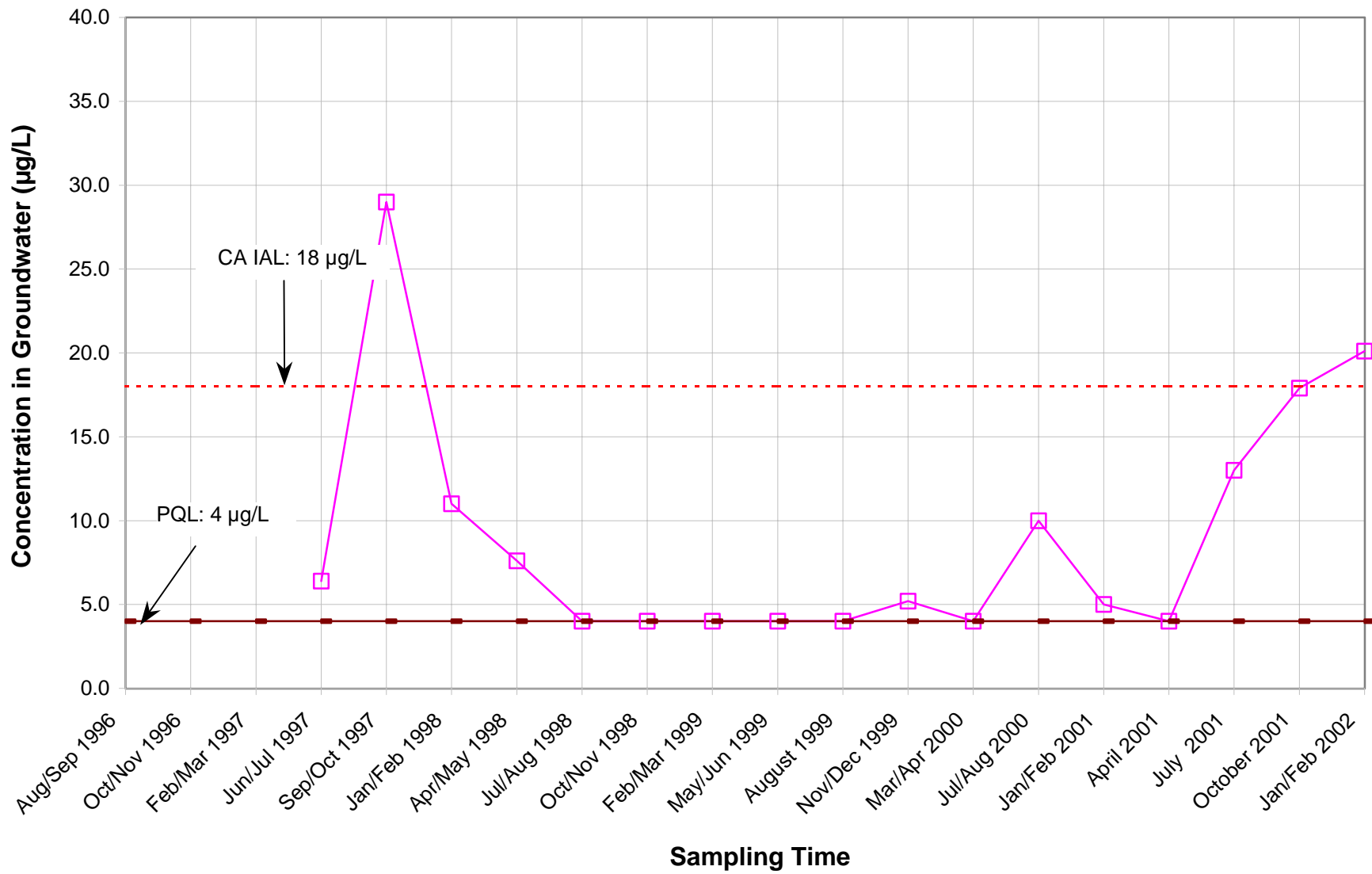


Legend

—□— Shallow Well —●— PQL - - - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.


FIGURE 3-24
CARBON TETRACHLORIDE DETECTED AT MW-8 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
 SOTA Environmental Technology, Inc.

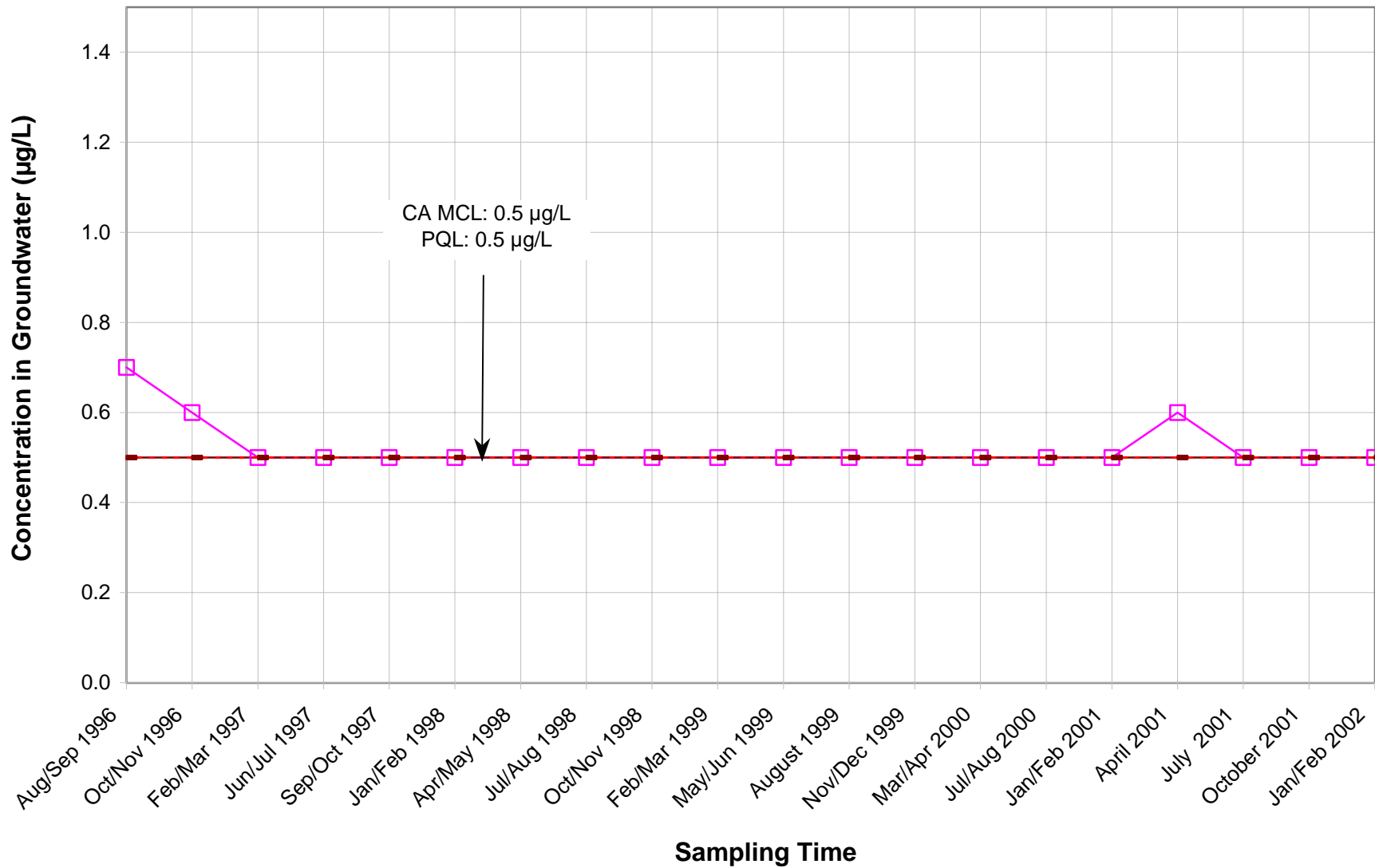


Legend

—□— Shallow Well
 —■— PQL
 - - - CA IAL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.


FIGURE 3-25
PERCHLORATE DETECTED AT MW-8 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
 SOTA Environmental Technology, Inc.

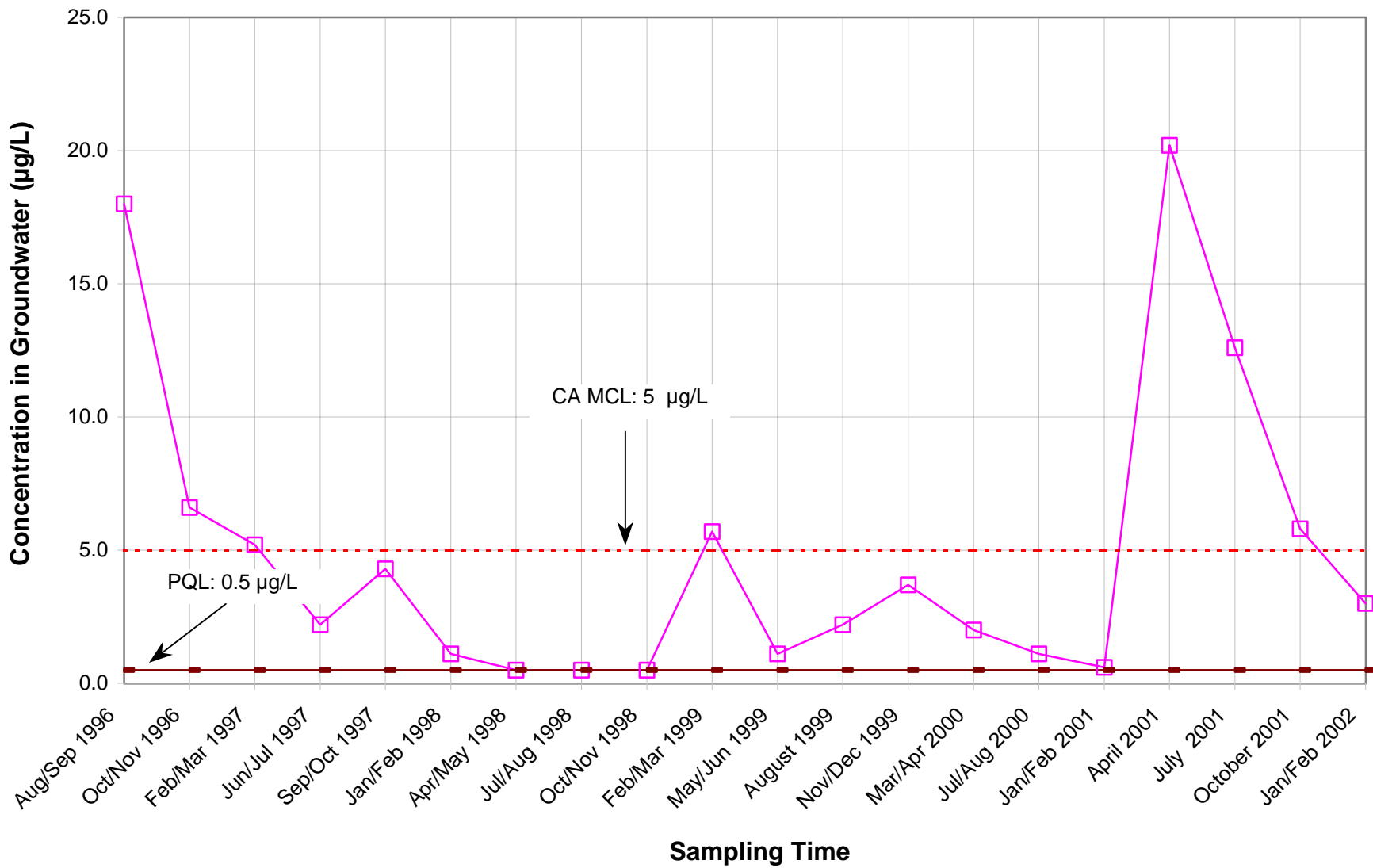


Legend

—□— Shallow Well —●— PQL - - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.


FIGURE 3-26
CARBON TETRACHLORIDE DETECTED AT MW-10 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
 SOTA Environmental Technology, Inc.

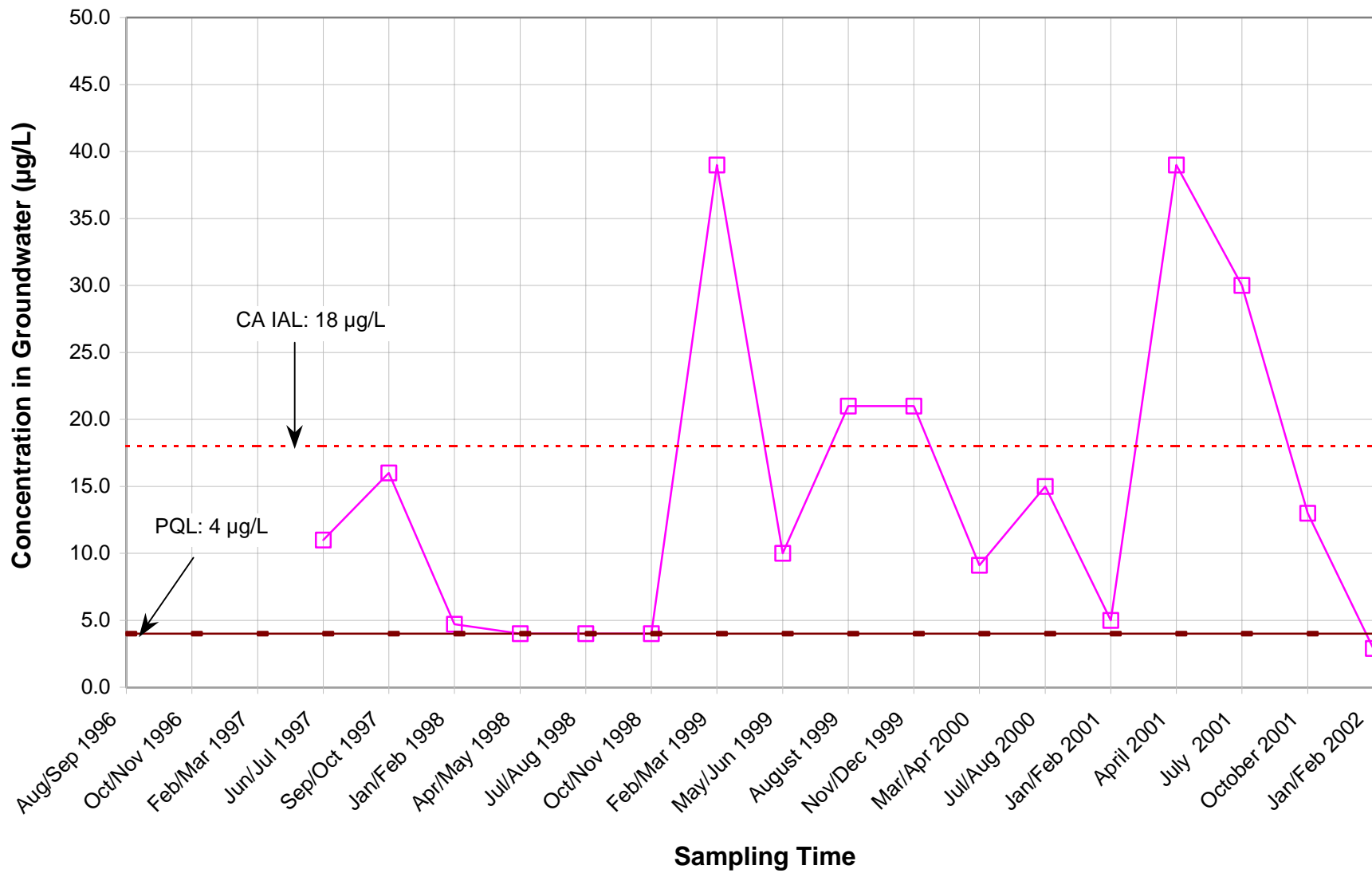


Legend

—□— Shallow Well —●— PQL - - - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-27	
TRICHLOROETHENE DETECTED AT MW-10 FROM AUG/SEP 1996 TO JAN/FEB 2002	
Jet Propulsion Laboratory Pasadena, California	
	SOTA Environmental Technology, Inc.



Legend

—□— Shallow Well —●— PQL - - - - CA IAL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

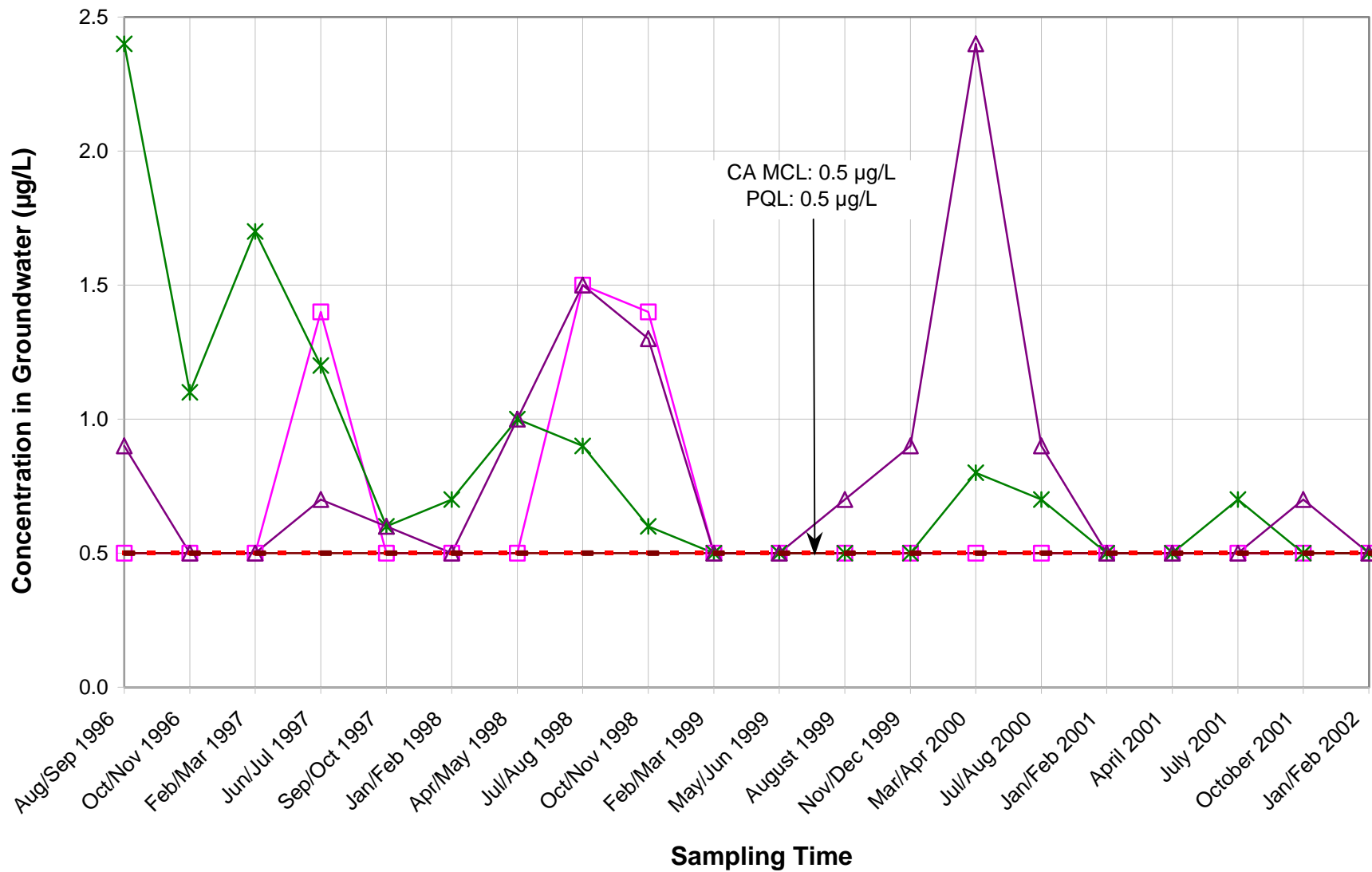
FIGURE 3-28

PERCHLORATE DETECTED AT MW-10
 FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
 Pasadena, California



SOTA Environmental Technology, Inc.



Legend

—□— Screen 1
 —*— Screen 2
 —△— Screen 3
 —●— PQL
 - - - CA MCL

Only concentrations above PQL are plotted. Screen 4 concentration was below PQL. Screen 5 was not sampled in October 2001.

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

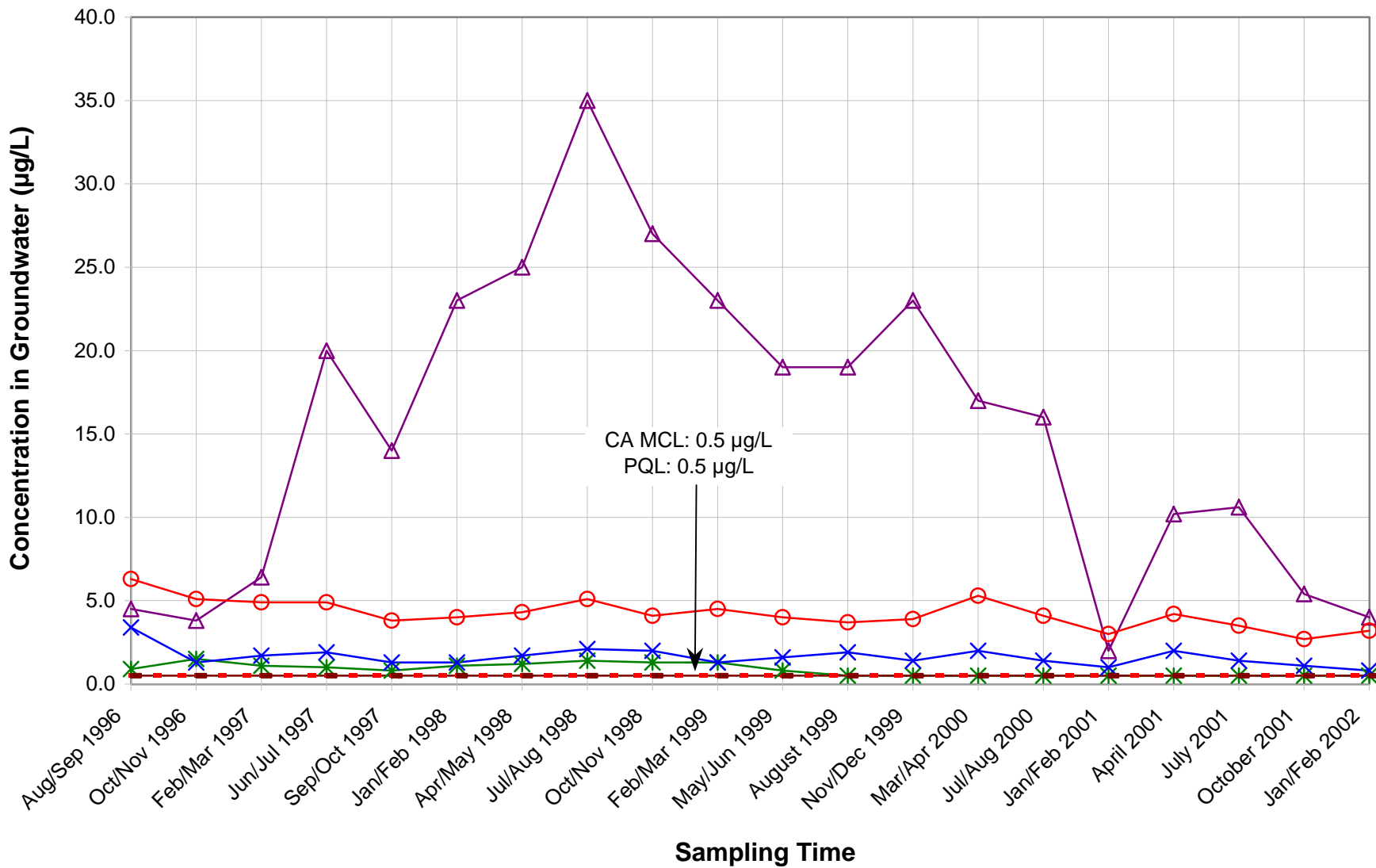
FIGURE 3-29

CARBON TETRACHLORIDE DETECTED AT MW-11
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.




Legend

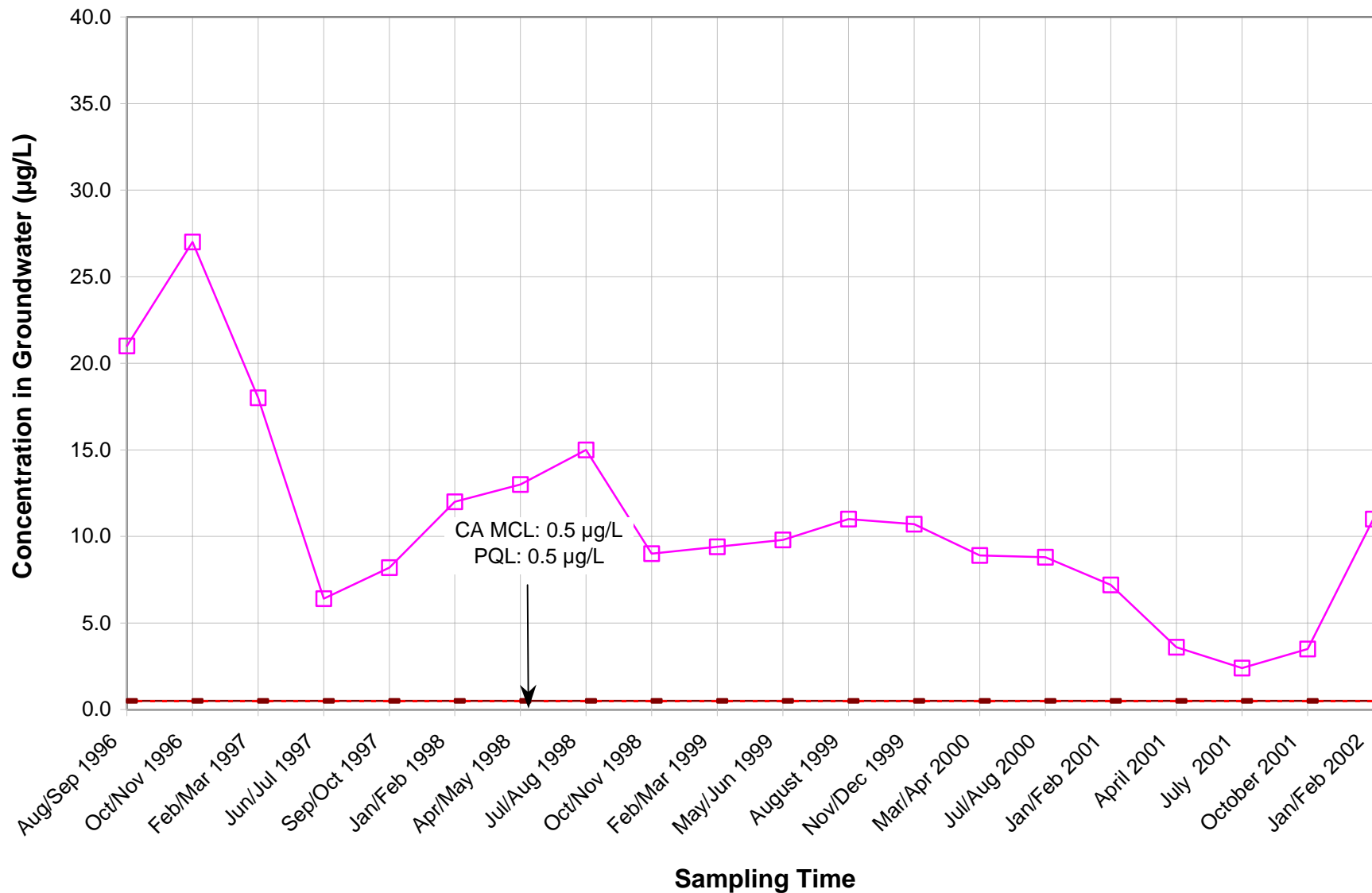
- *— Screen 2
- △— Screen 3
- Screen 4
- ×— Screen 5
- PQL
- - - CA MCL

Only concentrations above PQL are plotted. Screen 1 concentration was below PQL. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-30
**CARBON TETRACHLORIDE DETECTED AT MW-12
 FROM AUG/SEP 1996 TO JAN/FEB 2002**

Jet Propulsion Laboratory
 Pasadena, California


 SOTA Environmental Technology, Inc.

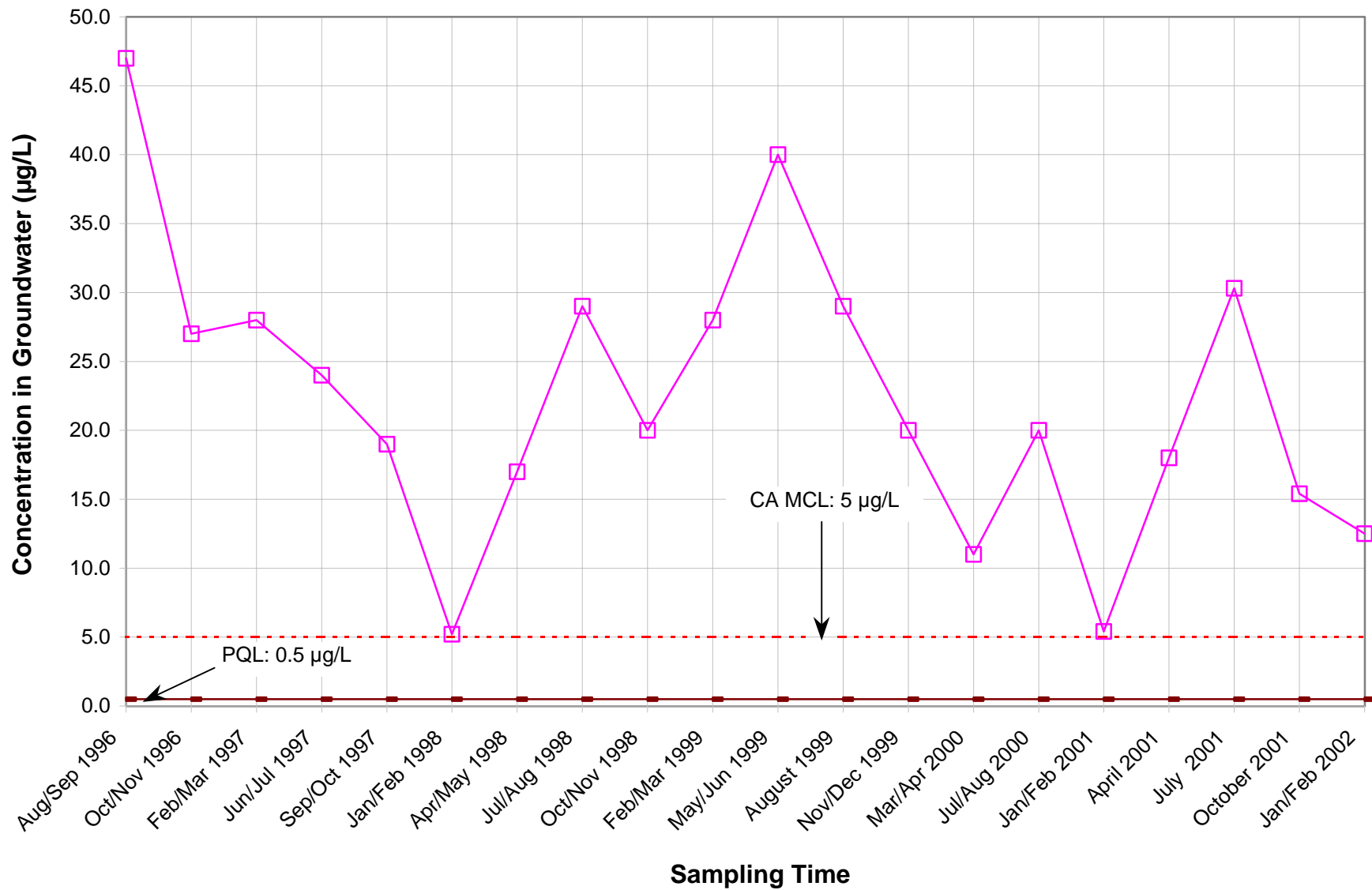


Legend

—□— Shallow Well —●— PQL - - - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-31	
CARBON TETRACHLORIDE DETECTED AT MW-13 FROM AUG/SEP 1996 TO JAN/FEB 2002	
Jet Propulsion Laboratory Pasadena, California	
	SOTA Environmental Technology, Inc.

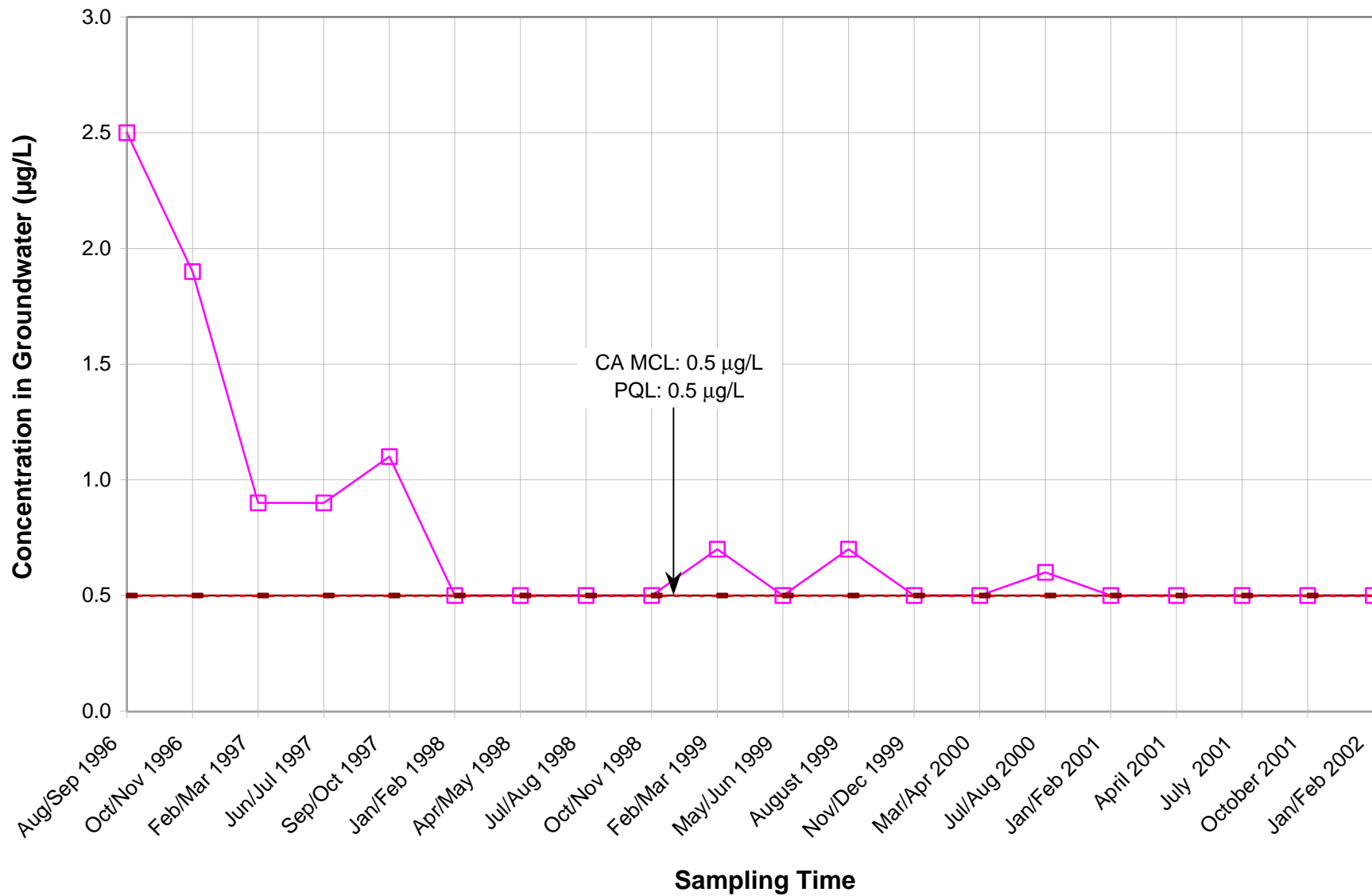


Legend

—□— Shallow Well
 —■— PQL
 - - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-32
TRICHLOROETHENE DETECTED AT MW-13 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

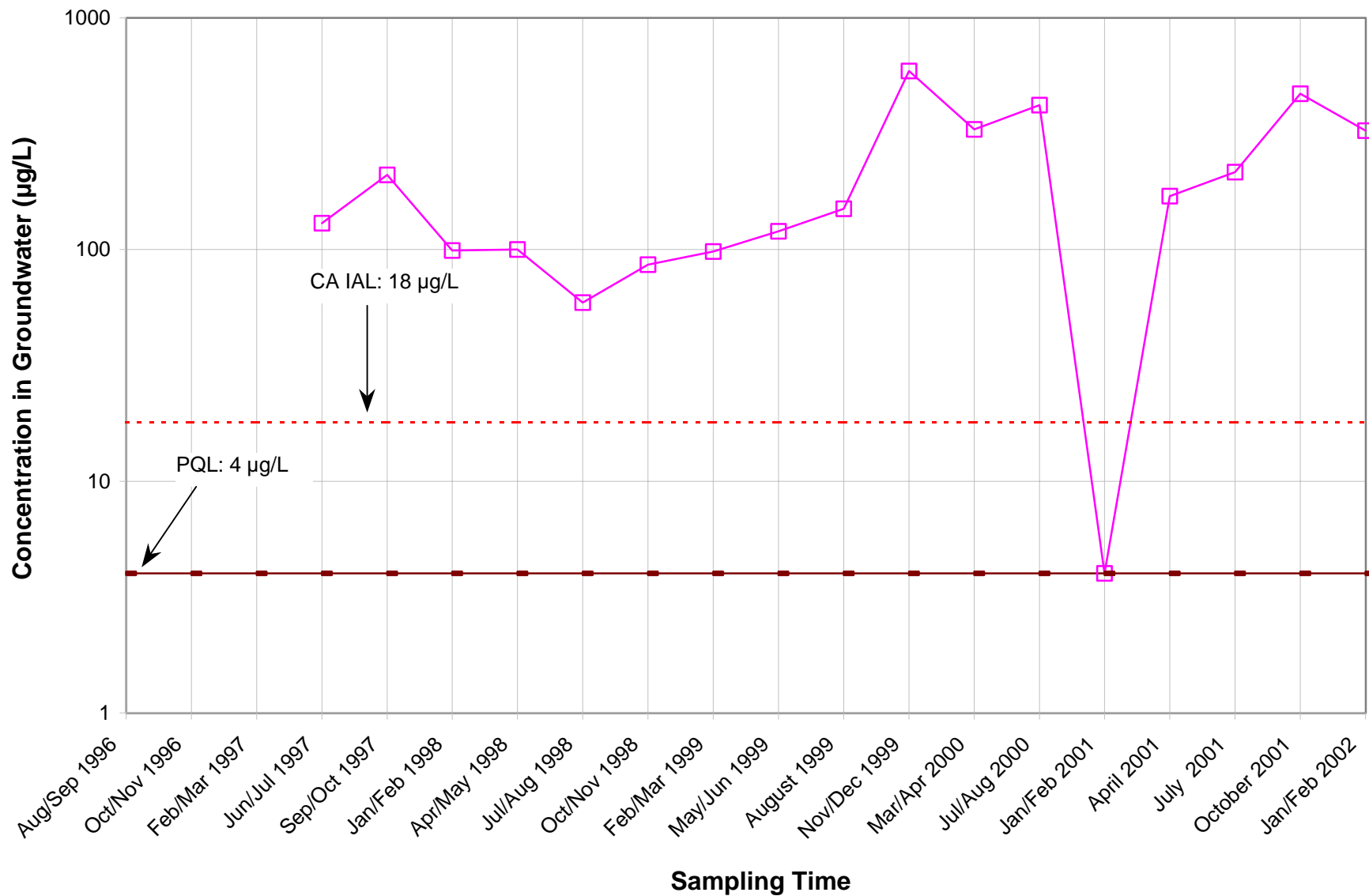


Legend

- Shallow Well
- PQL
- - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-33
1,2-DCA DETECTED AT MW-13 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

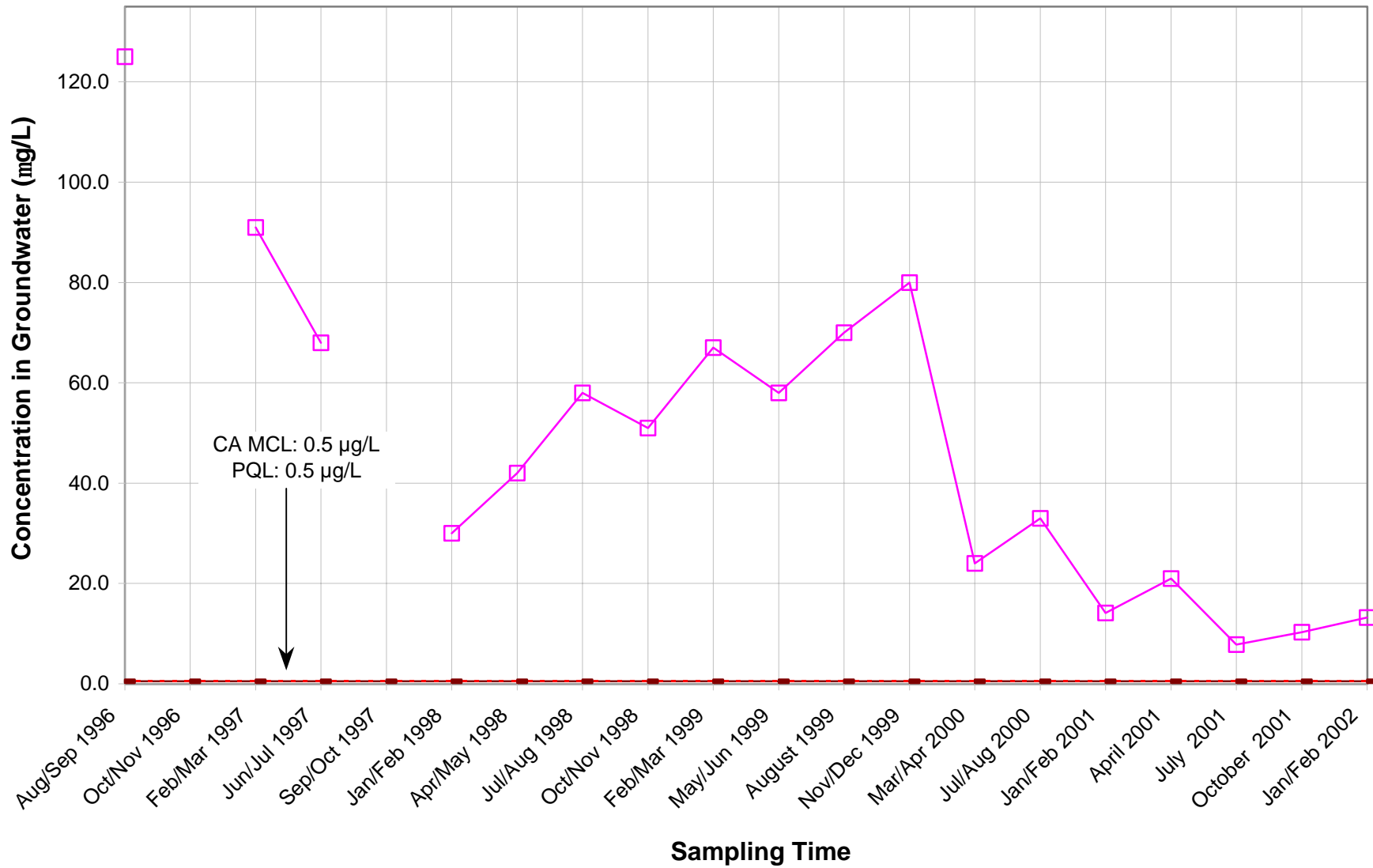


Legend

- Shallow Well
- PQL
- · · · CA IAL

Only concentrations above PQL are plotted.
 Values in (Y) axis are represented in Logarithmic scale.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-34
PERCHLORATE DETECTED AT MW-13 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

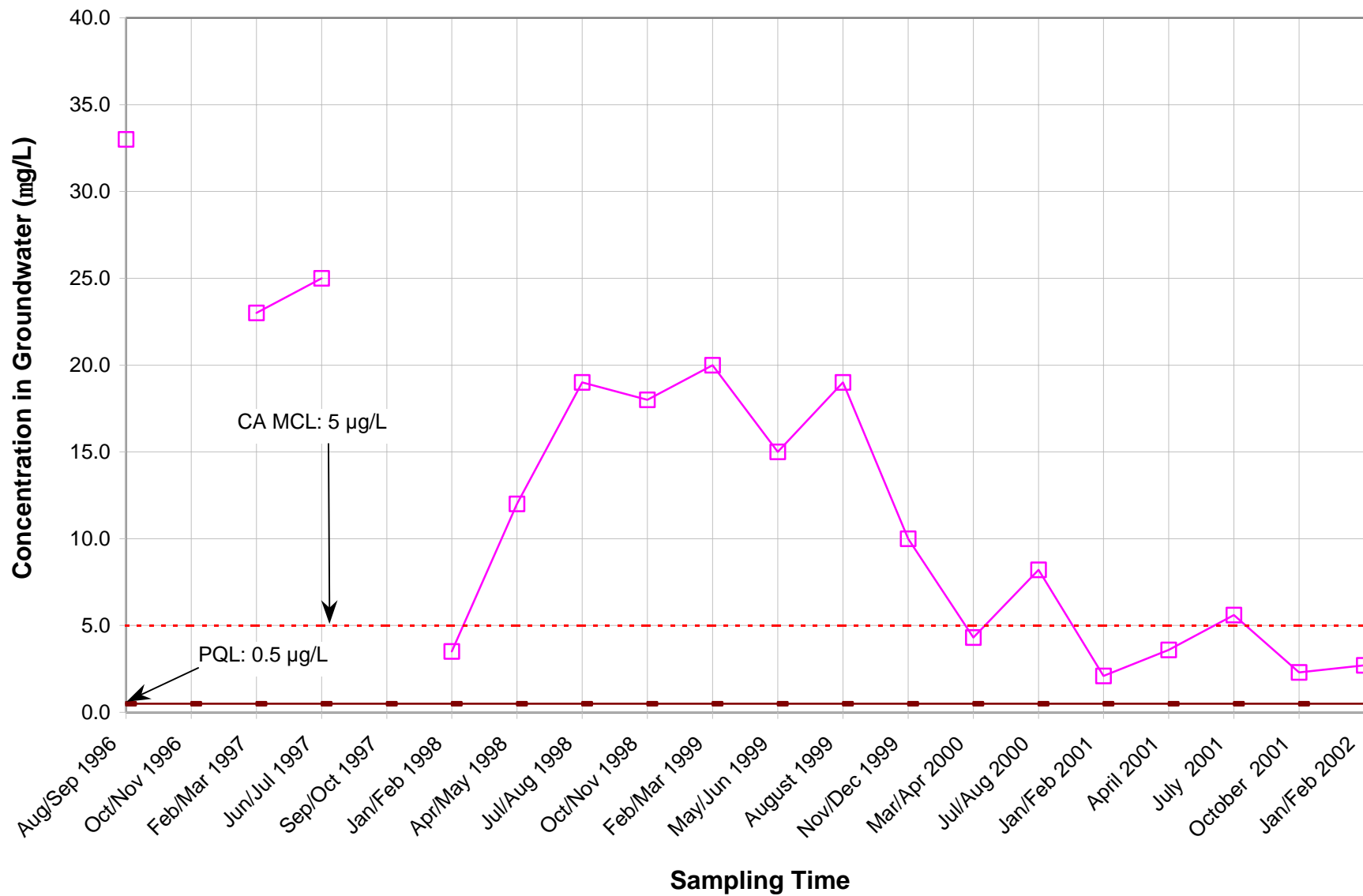


Legend

- Shallow Well
- PQL
- - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-35
CARBON TETRACHLORIDE DETECTED AT MW-16 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.



Legend

—□— Shallow Well —●— PQL - - - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

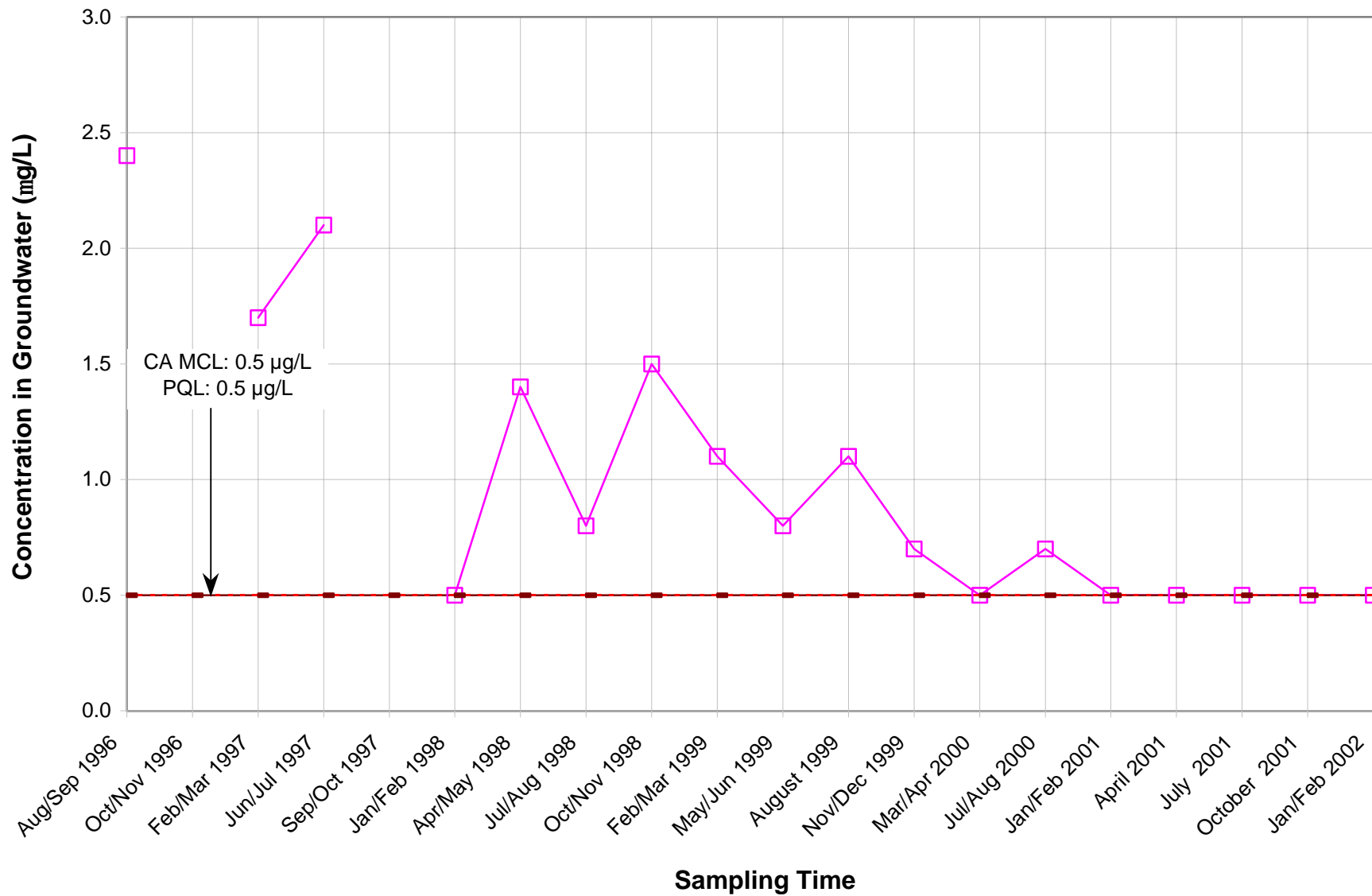
FIGURE 3-36

**TRICHLOROETHENE DETECTED AT MW-16
 FROM AUG/SEP 1996 TO JAN/FEB 2002**

Jet Propulsion Laboratory
 Pasadena, California

SOTA Environmental Technology, Inc.





Legend

—□— Shallow Well —■— PQL - - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

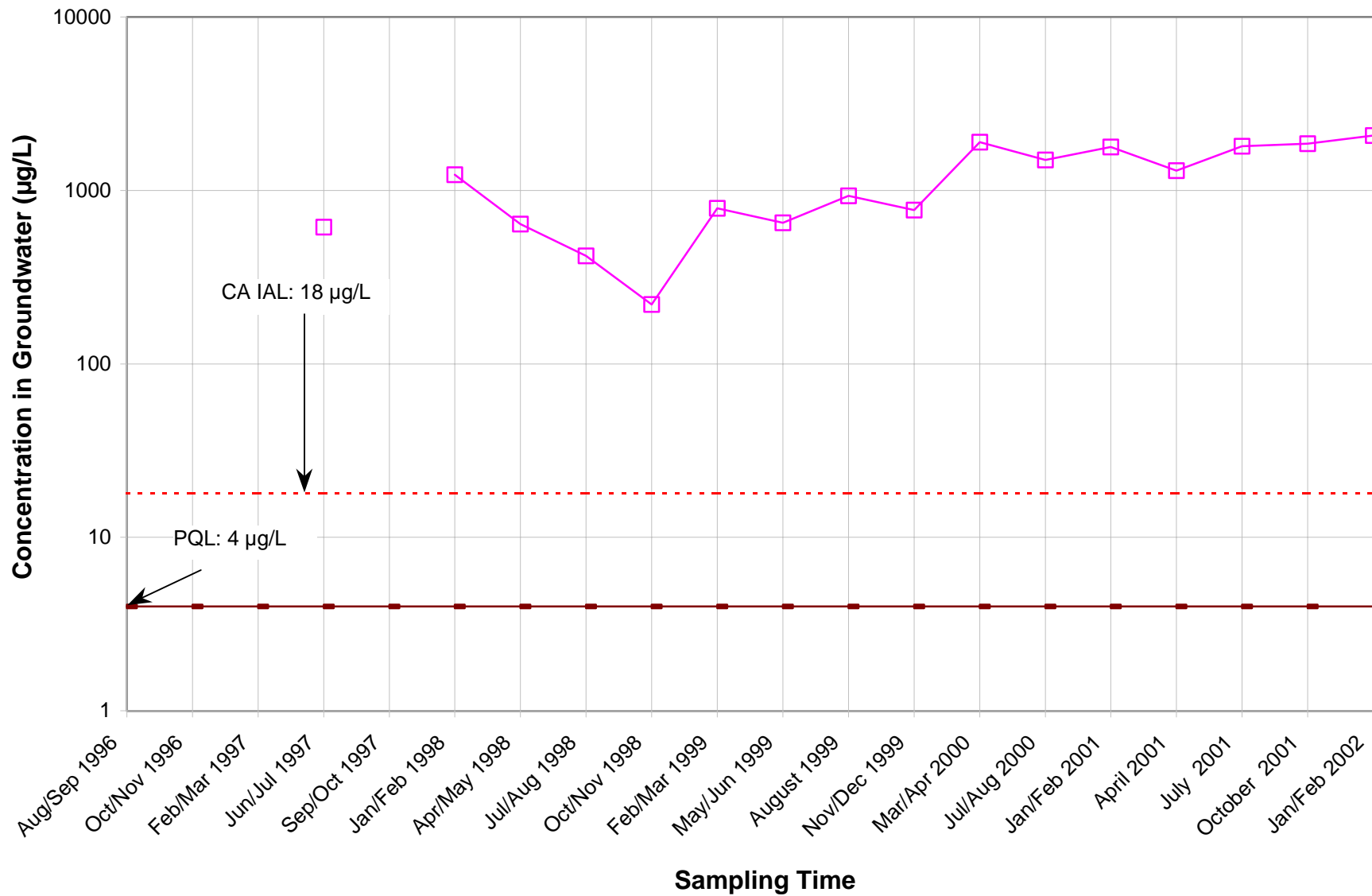
FIGURE 3-37

1, 2-DCA DETECTED AT MW-16
 FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
 Pasadena, California



SOTA Environmental Technology, Inc.

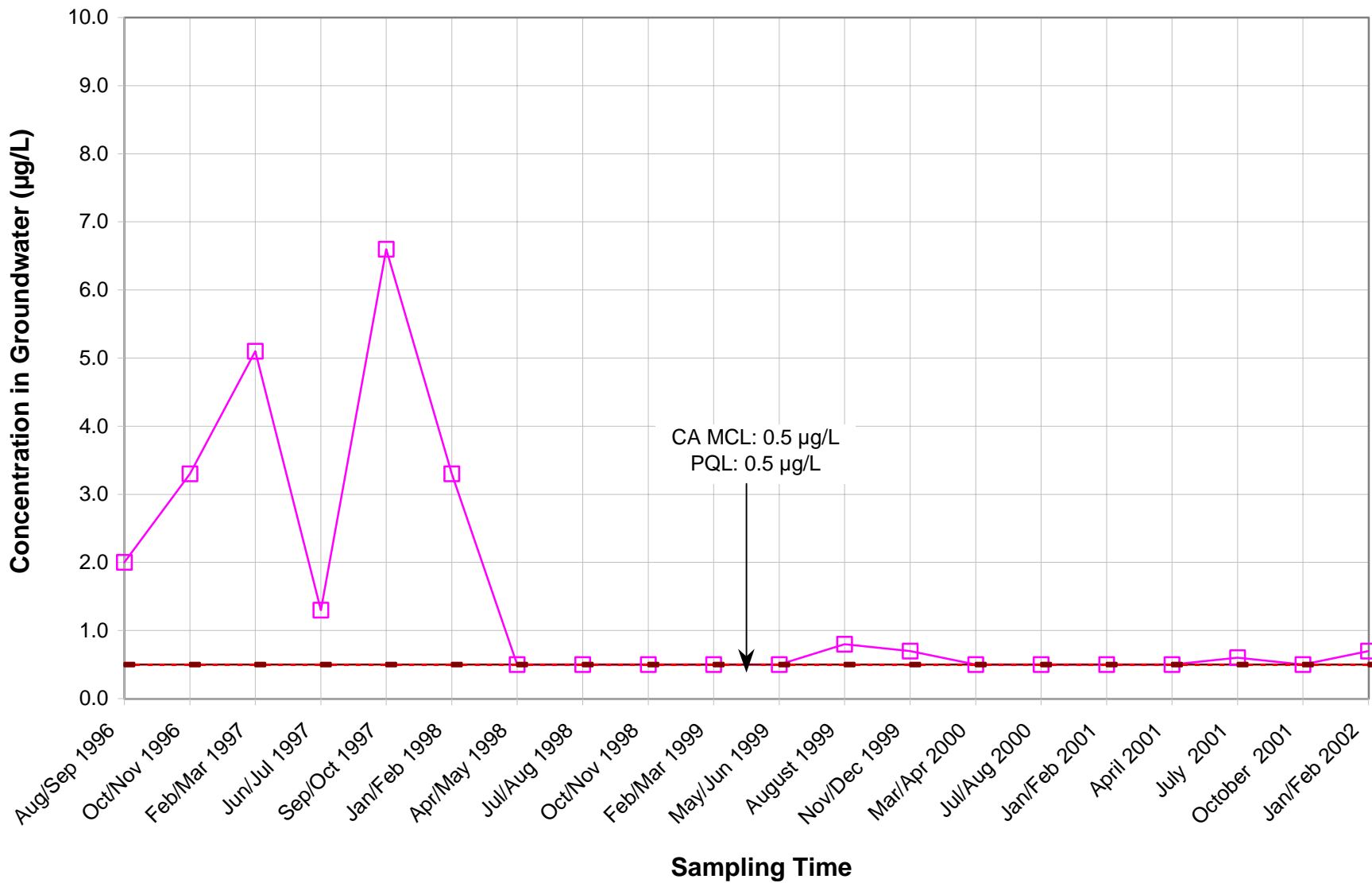


Legend

- Shallow Well
- PQL
- - - CA IAL

Only concentrations above PQL are plotted.
 Values in (Y) axis are represented in Logarithmic scale.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-38
PERCHLORATE DETECTED AT MW-16 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.



Legend

—□— Screen 3
 —●— PQL
 - - - CA MCL

Only concentrations above PQL are plotted. Screens 2, 4, and 5 concentrations were below PQL. Screen 1 was not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

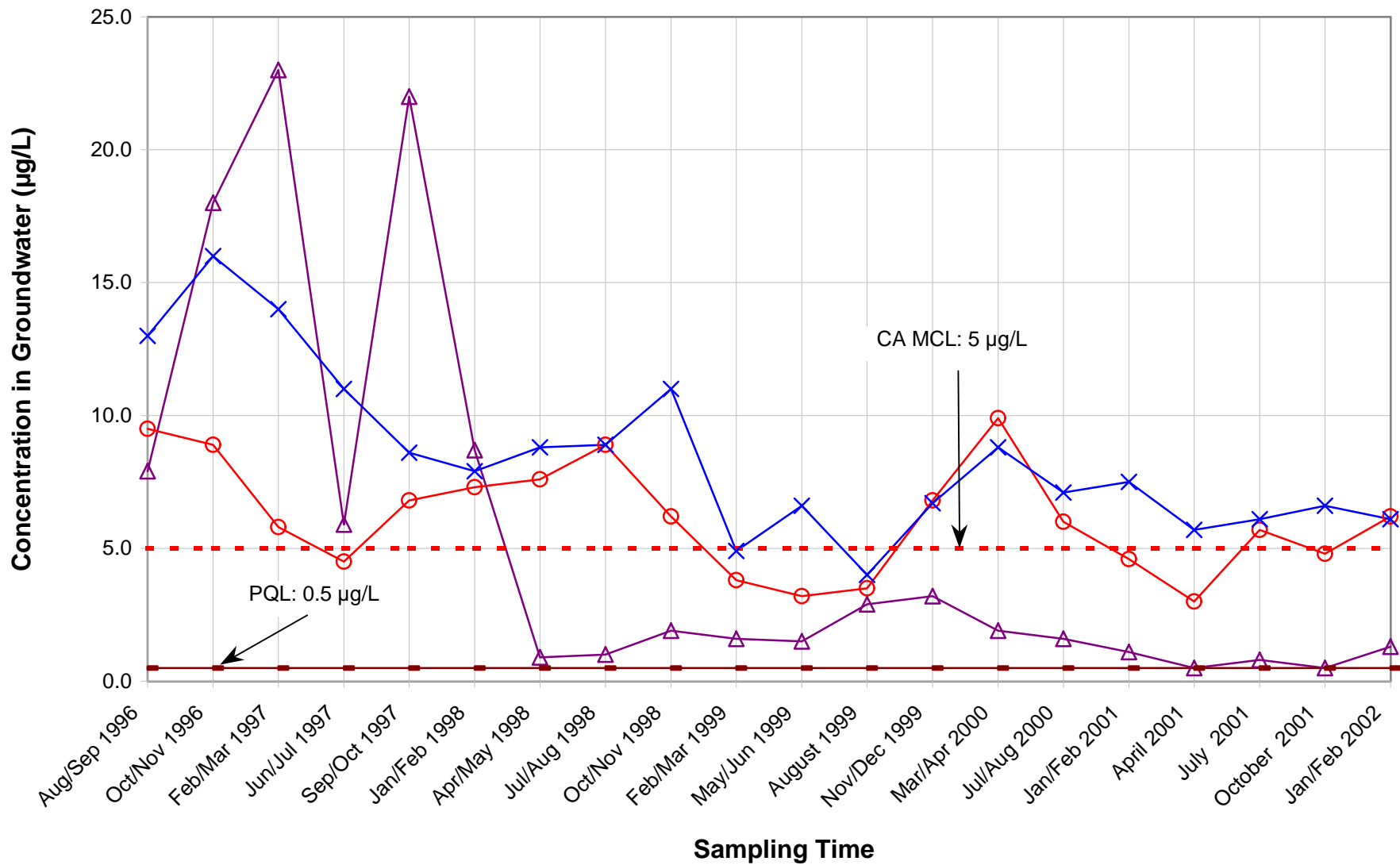
FIGURE 3-39

CARBON TETRACHLORIDE DETECTED AT MW-17
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



Legend

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


Only concentrations above PQL are plotted. Screen 2 concentrations were below PQL. Screen 1 was not sampled in October 2001.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

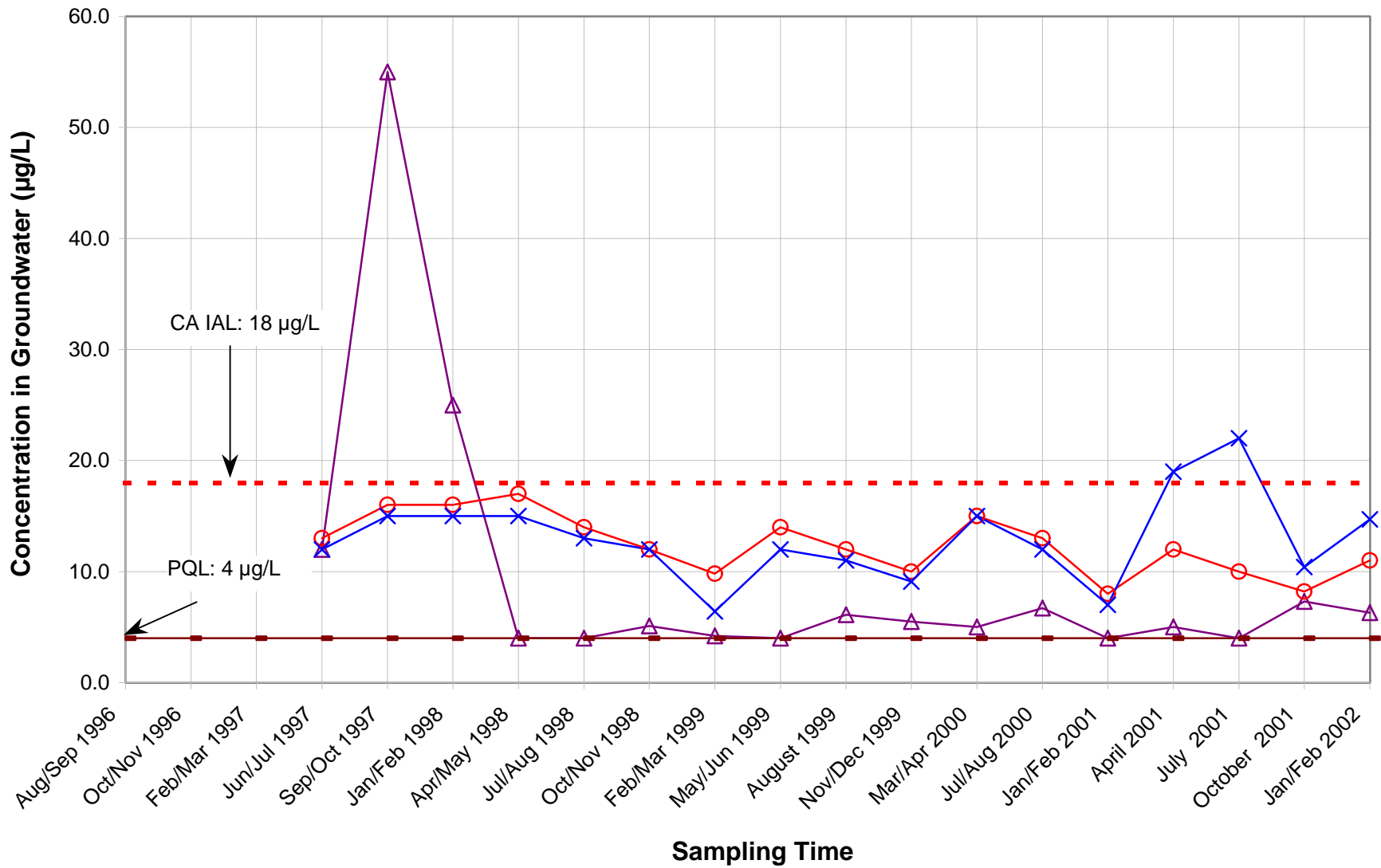
FIGURE 3-40

**TRICHLOROETHENE DETECTED AT MW-17
 FROM AUG/SEP 1996 TO JAN/FEB 2002**

Jet Propulsion Laboratory
 Pasadena, California

SOTA Environmental Technology, Inc.





Legend

- △— Screen 3
- Screen 4
- ×— Screen 5
- PQL
- - - CA IAL

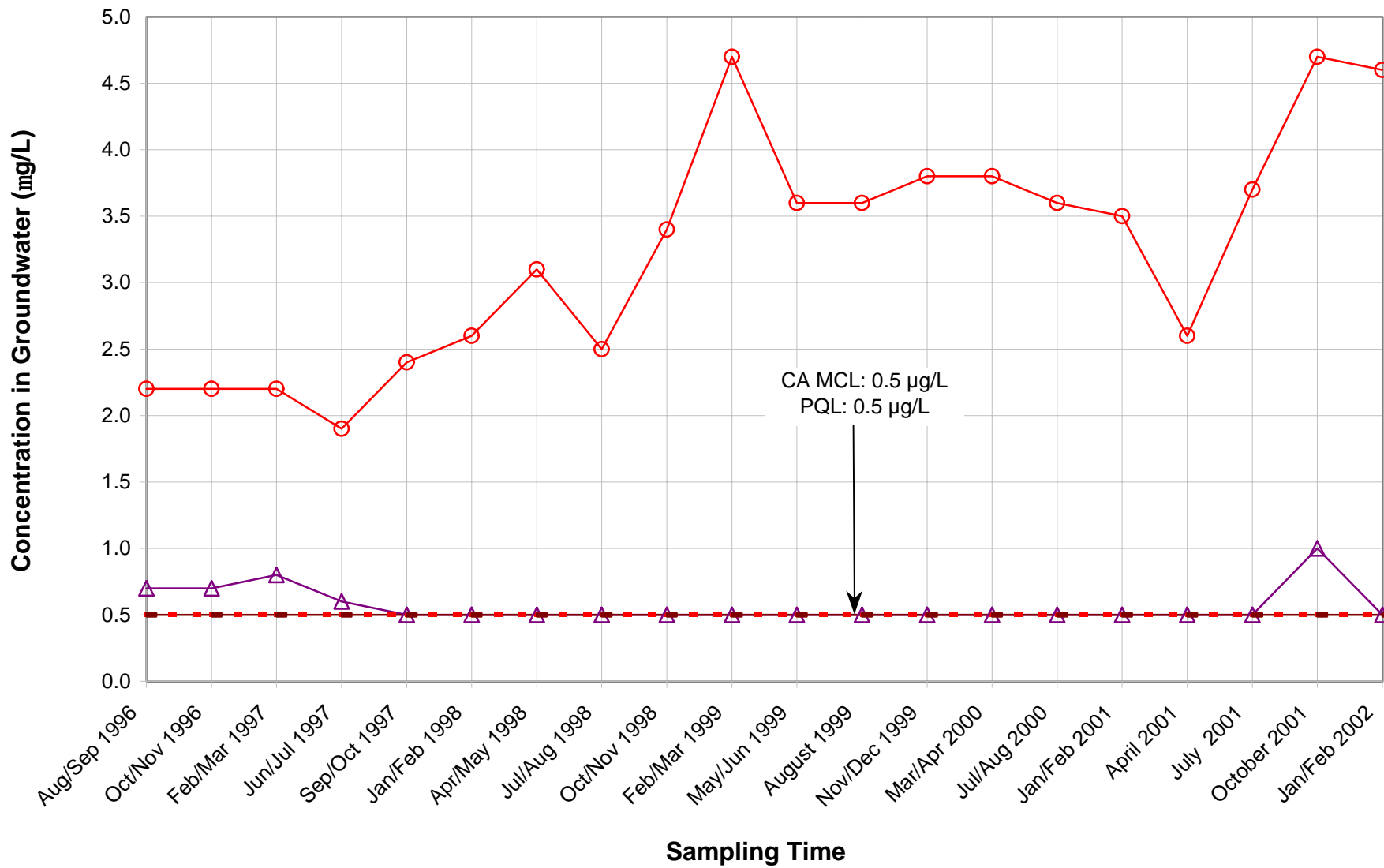
Only concentrations above PQL are plotted. Screen 2 concentrations were below PQL. Screen 1 was not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-41
**PERCHLORATE DETECTED AT MW-17
 FROM AUG/SEP 1996 TO JAN/FEB 2002**

Jet Propulsion Laboratory
 Pasadena, California

SOTA Environmental Technology, Inc.



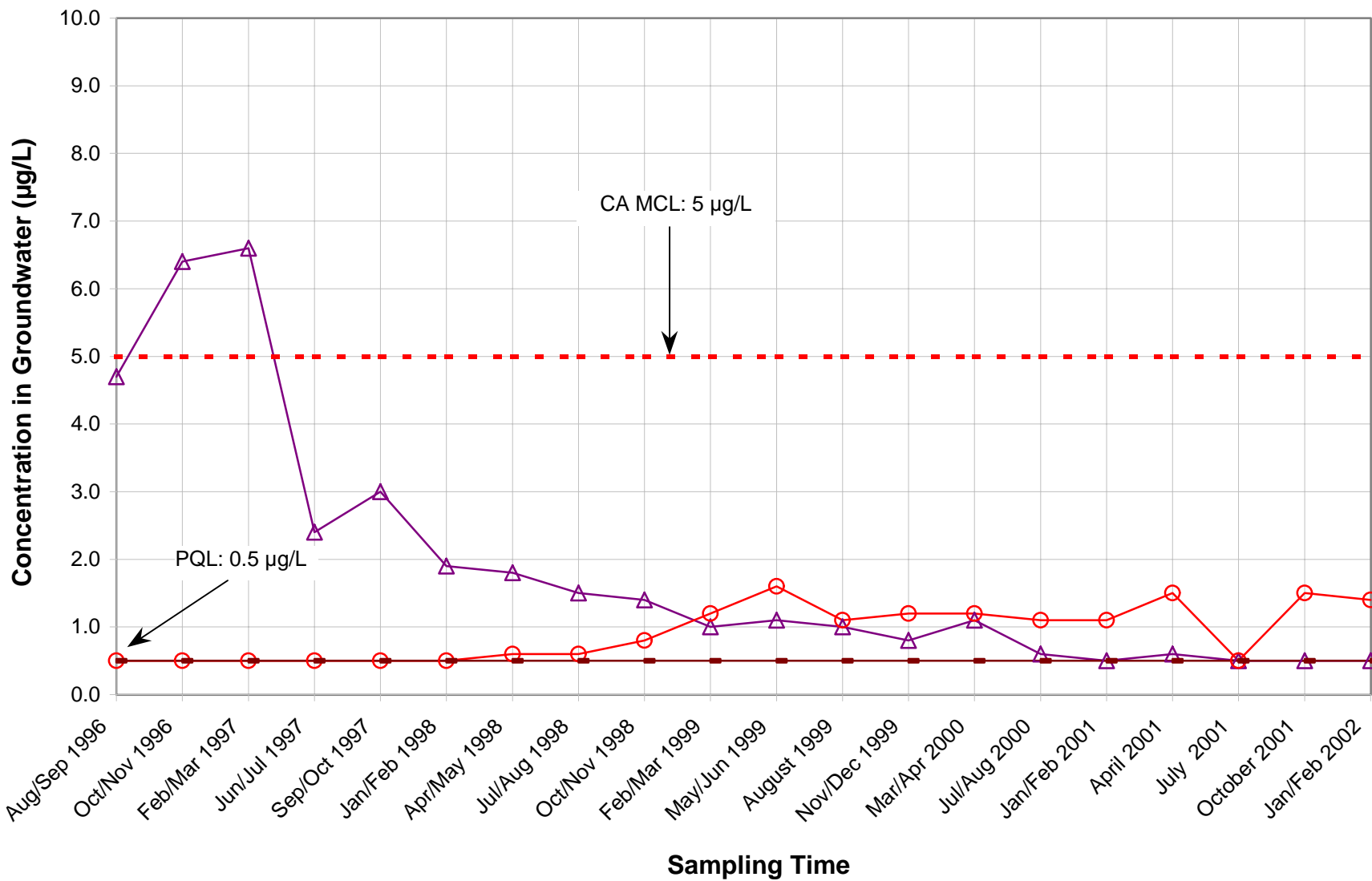


Legend

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

Only concentrations above PQL are plotted. Screens 2 and 5 concentrations were below PQL. Screen 1 was not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-42
CARBON TETRACHLORIDE DETECTED AT MW-18 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

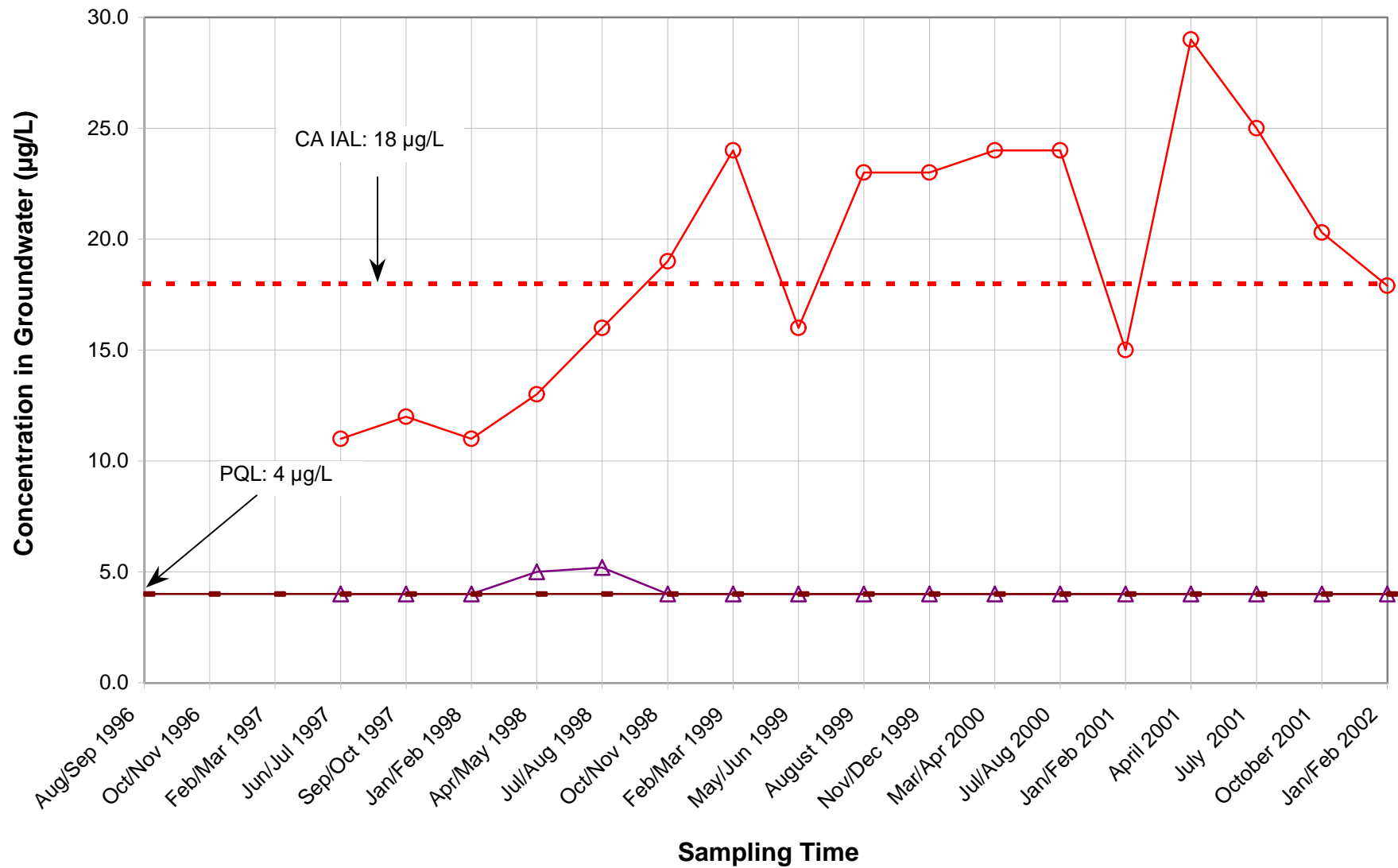


Legend

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

Only concentrations above PQL are plotted. Screens 2 and 5 concentrations were below PQL. Screen 1 was not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-43
TRICHLOROETHENE DETECTED AT MW-18 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.



Legend

▲ Screen 3
 ○ Screen 4
 —■— PQL
 - - - CA IAL

Only concentrations above PQL are plotted. Screens 2 and 5 concentrations were below PQL.
 Screen 1 was not sampled in October 2001.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

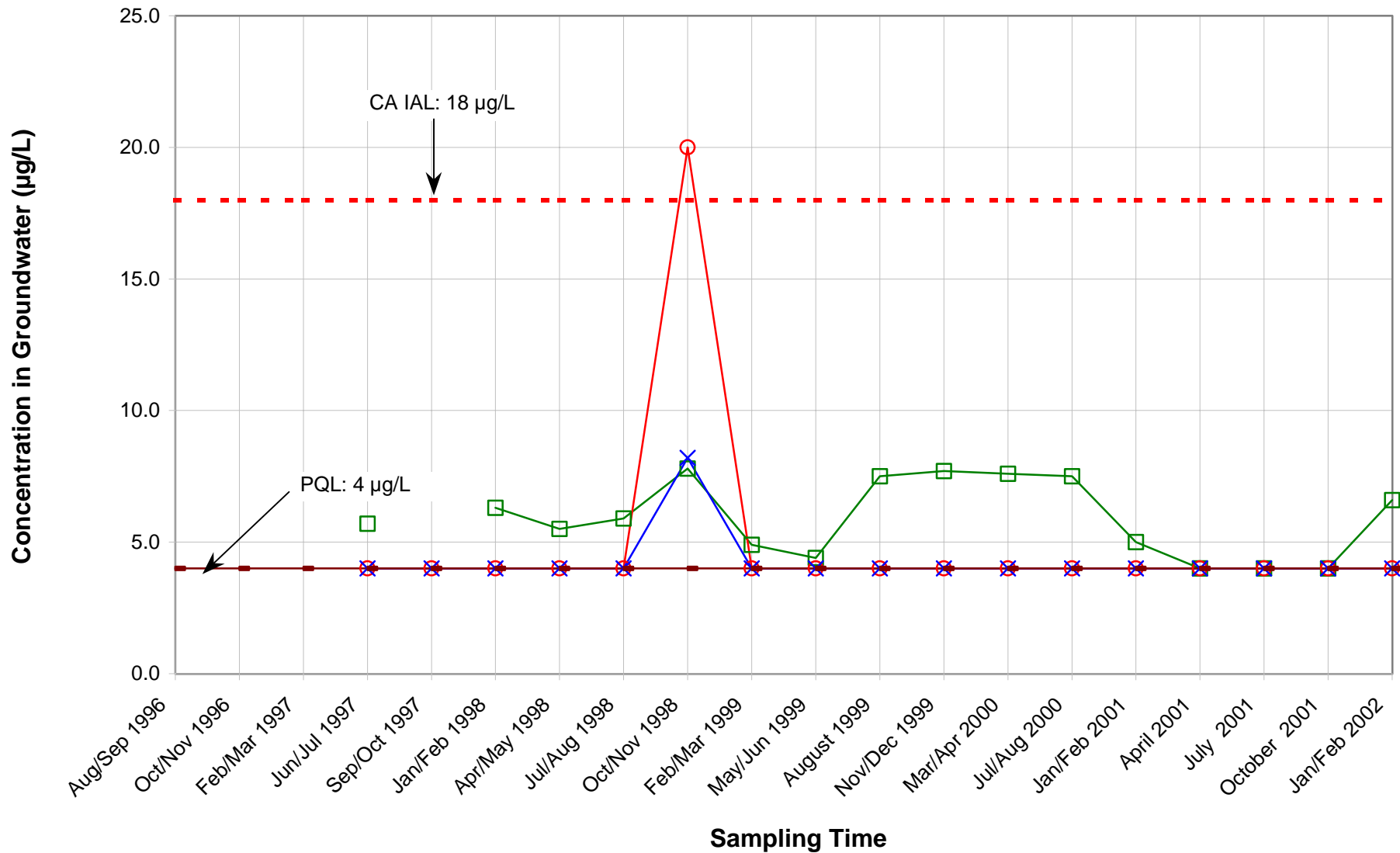
FIGURE 3-44

PERCHLORATE DETECTED AT MW-18
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.

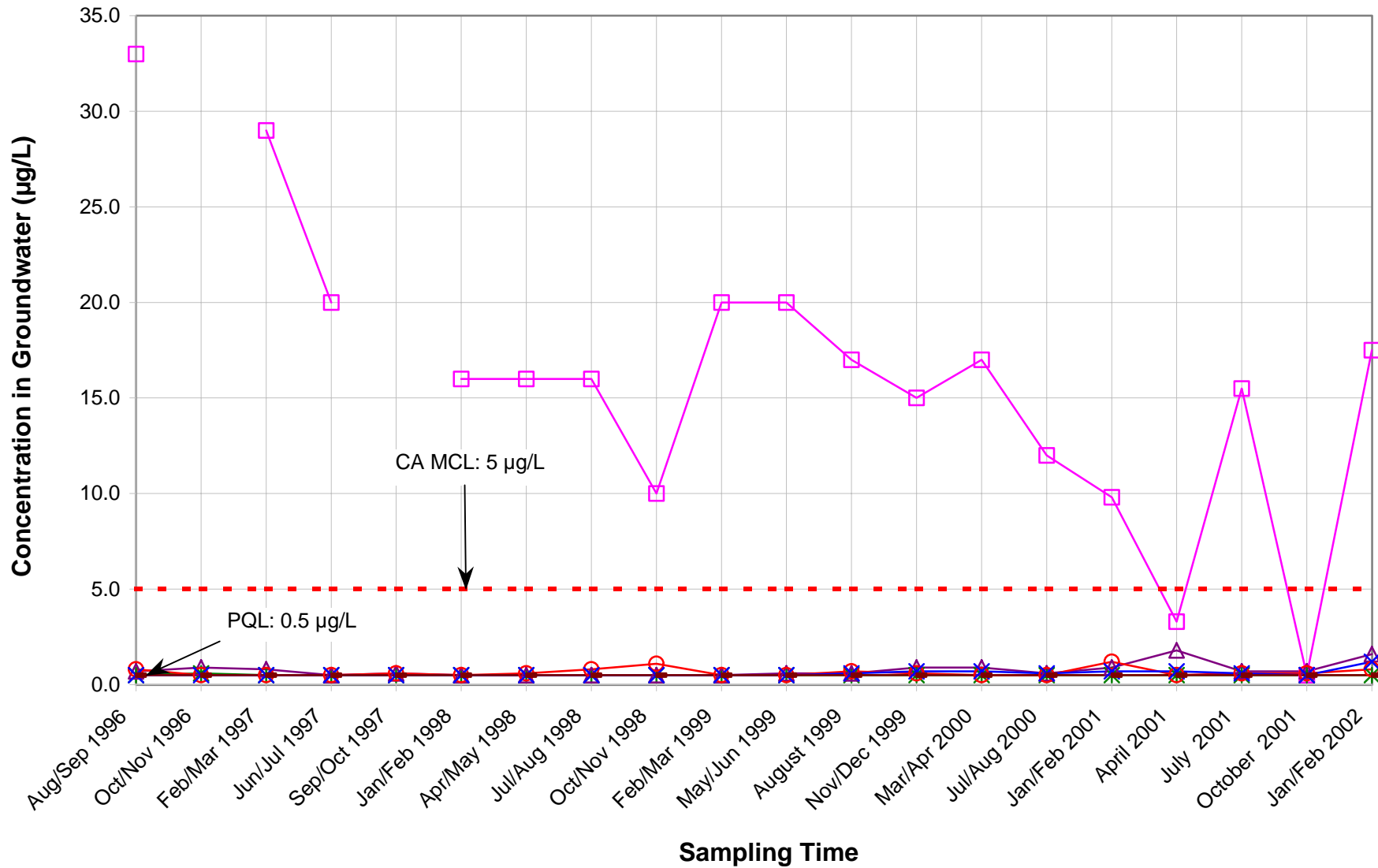


Legend

- Screen 1
- Screen 4
- ×— Screen 5
- PQL
- - - CA IAL

Only concentrations above PQL are plotted. Screens 2 and 3 concentrations were below PQL.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-45
PERCHLORATE DETECTED AT MW-20 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

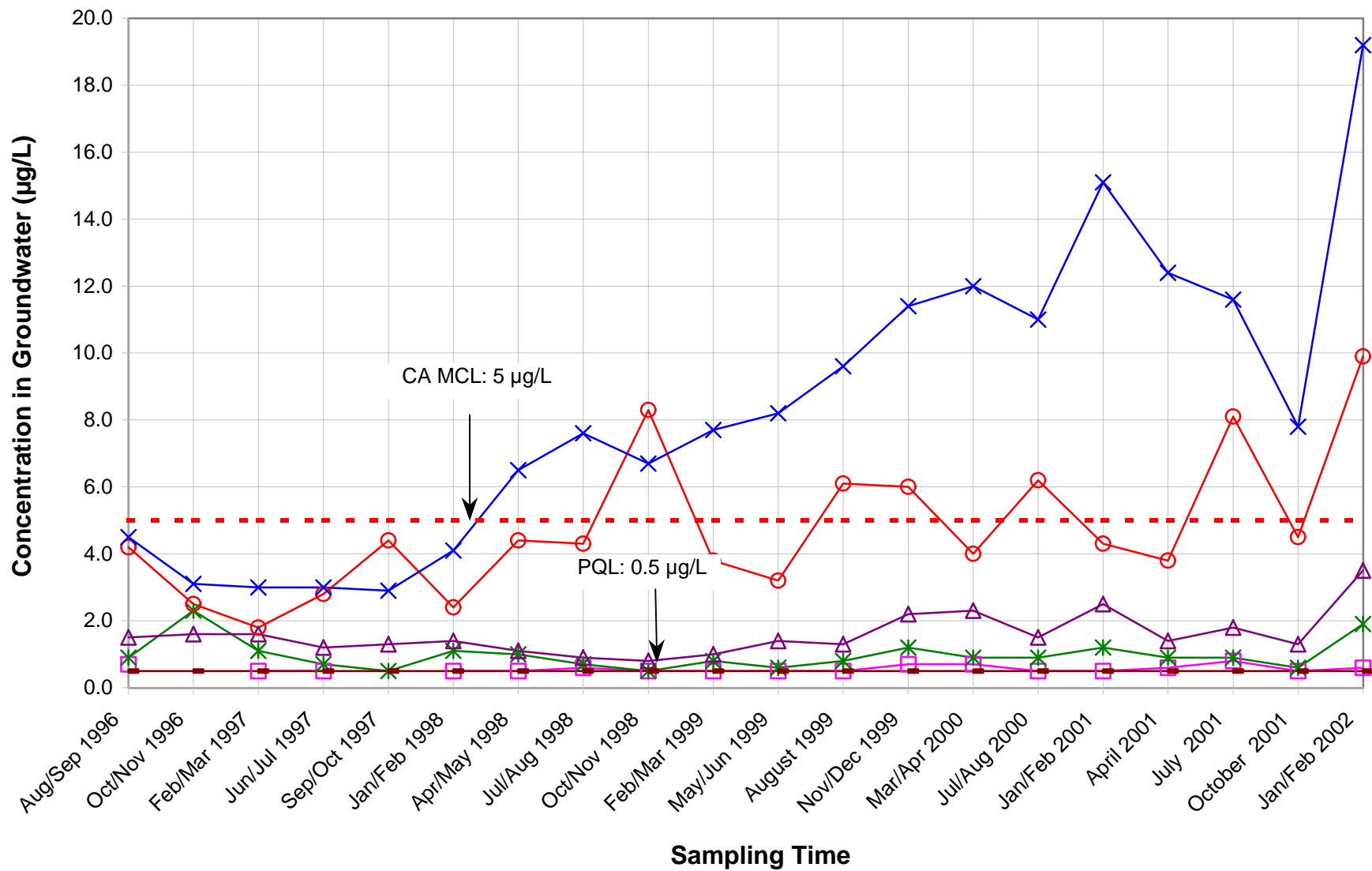


Legend

- Screen 1
- *— Screen 2
- △— Screen 3
- Screen 4
- ×— Screen 5
- PQL
- - - CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-46
TRICHLOROETHENE DETECTED AT MW-21 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

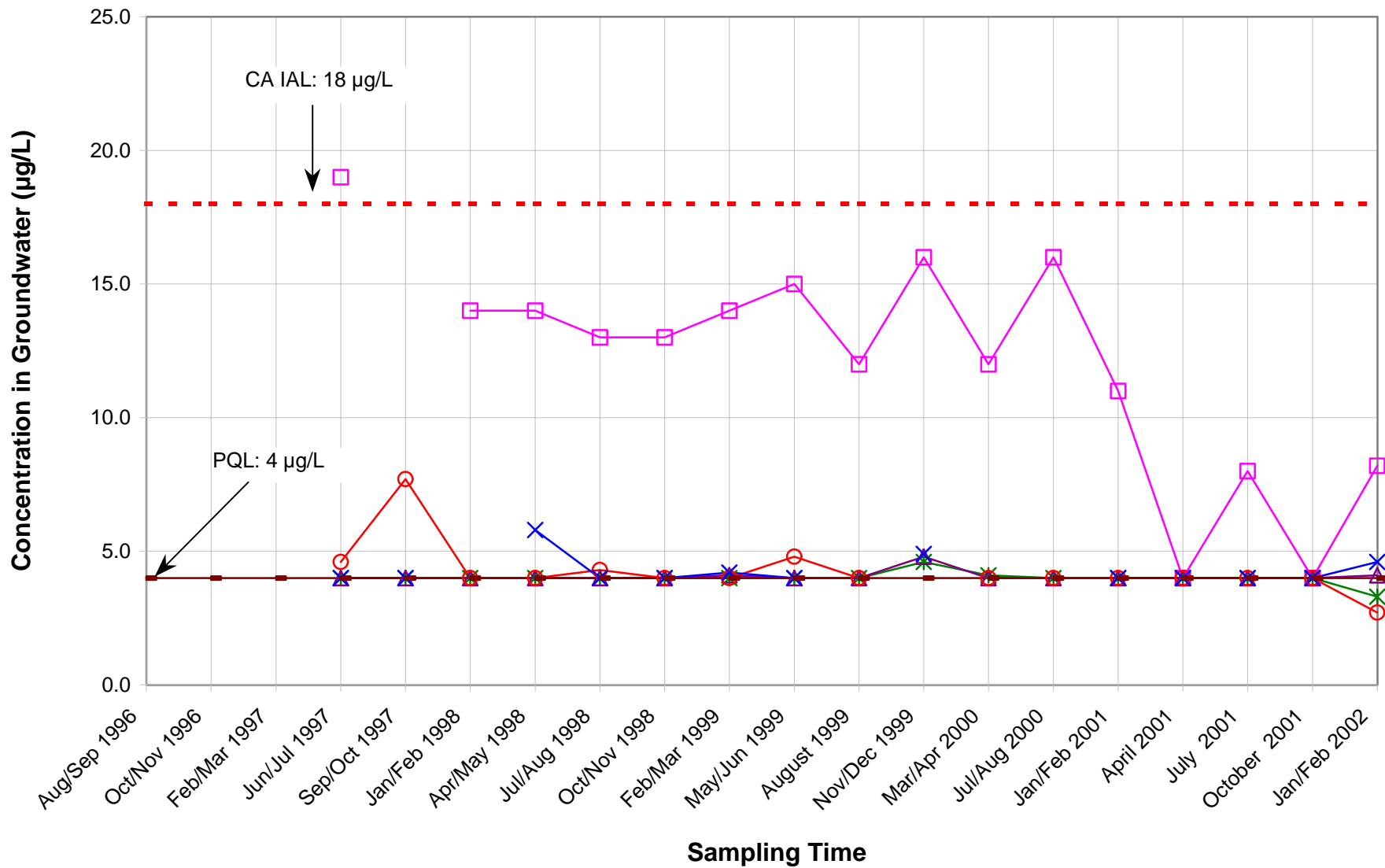


Legend

- Screen 1
- *— Screen 2
- △— Screen 3
- Screen 4
- ×— Screen 5
- PQL
- - - — CA MCL

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-47
TETRACHLOROETHENE DETECTED AT MW-21 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.



Legend

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

Only concentrations above PQL are plotted.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

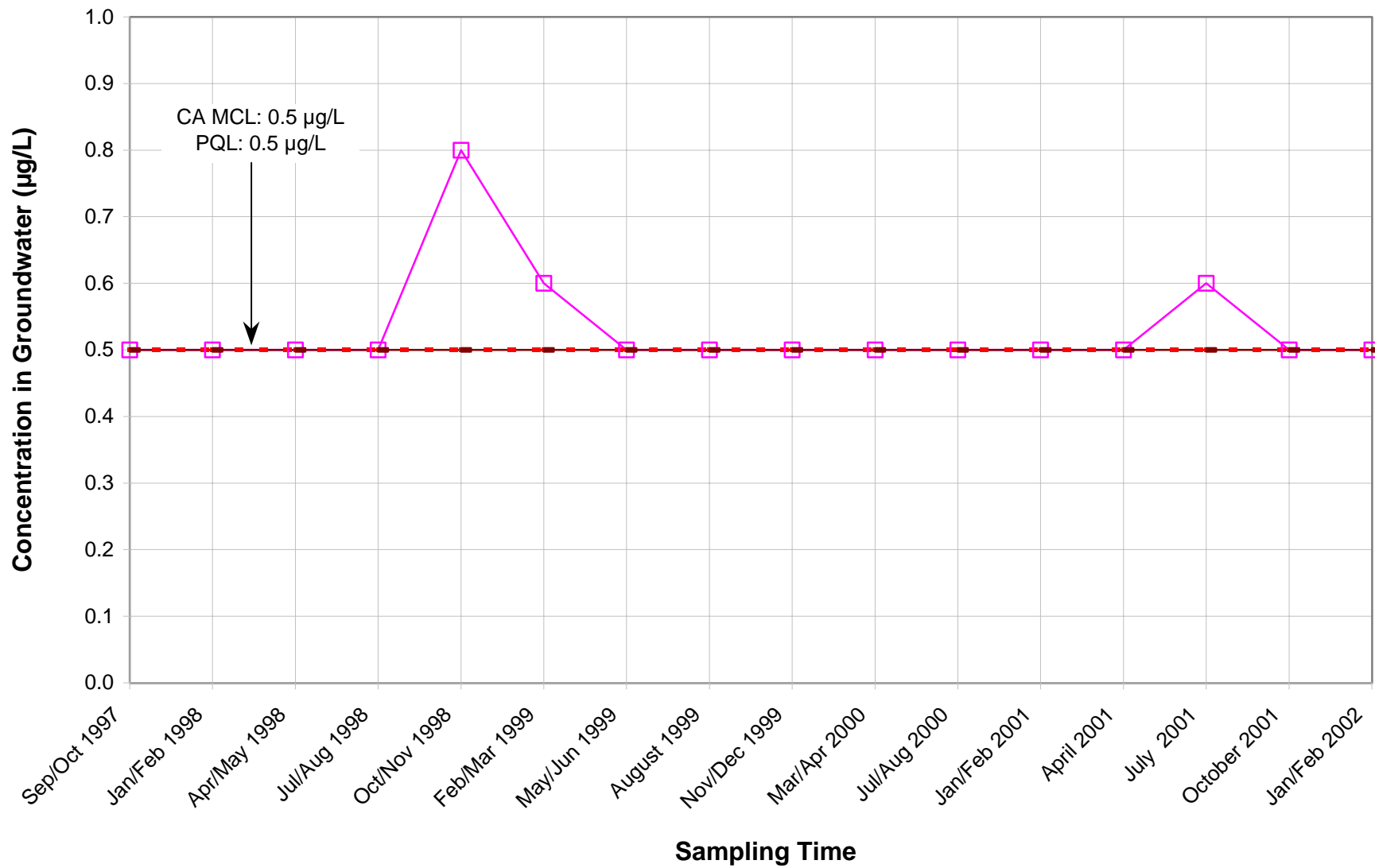
FIGURE 3-48

**PERCHLORATE DETECTED AT MW-21
 FROM AUG/SEP 1996 TO JAN/FEB 2002**

Jet Propulsion Laboratory
 Pasadena, California

SOTA Environmental Technology, Inc.





Legend

—□— Screen 1 —●— PQL - - - CA MCL

Only concentrations above PQL are plotted. Screens 2 and 3 concentrations were below PQL. Screens 4 and 5 were not sampled in October 2001. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

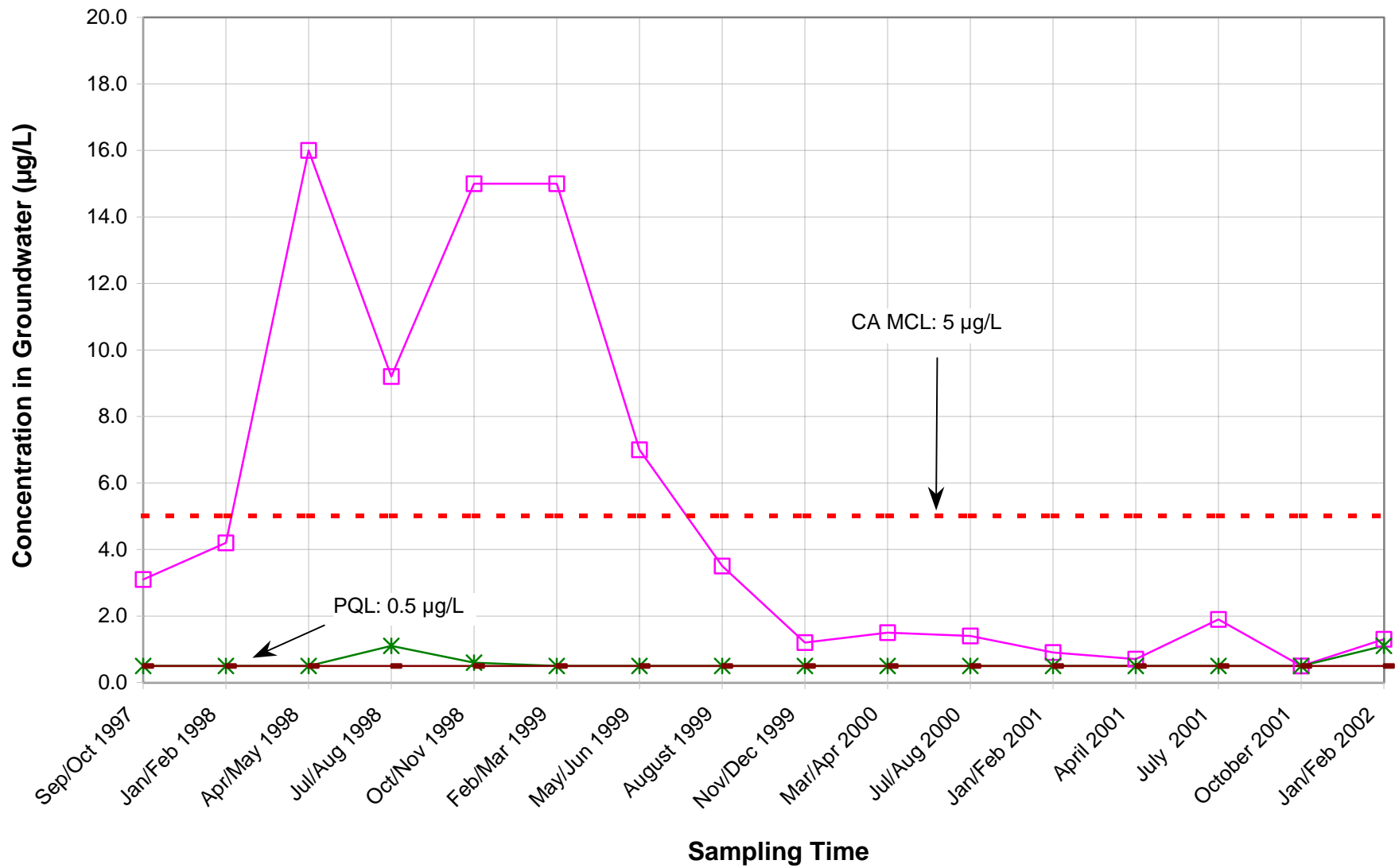
FIGURE 3-49

CARBON TETRACHLORIDE DETECTED AT MW-23
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.

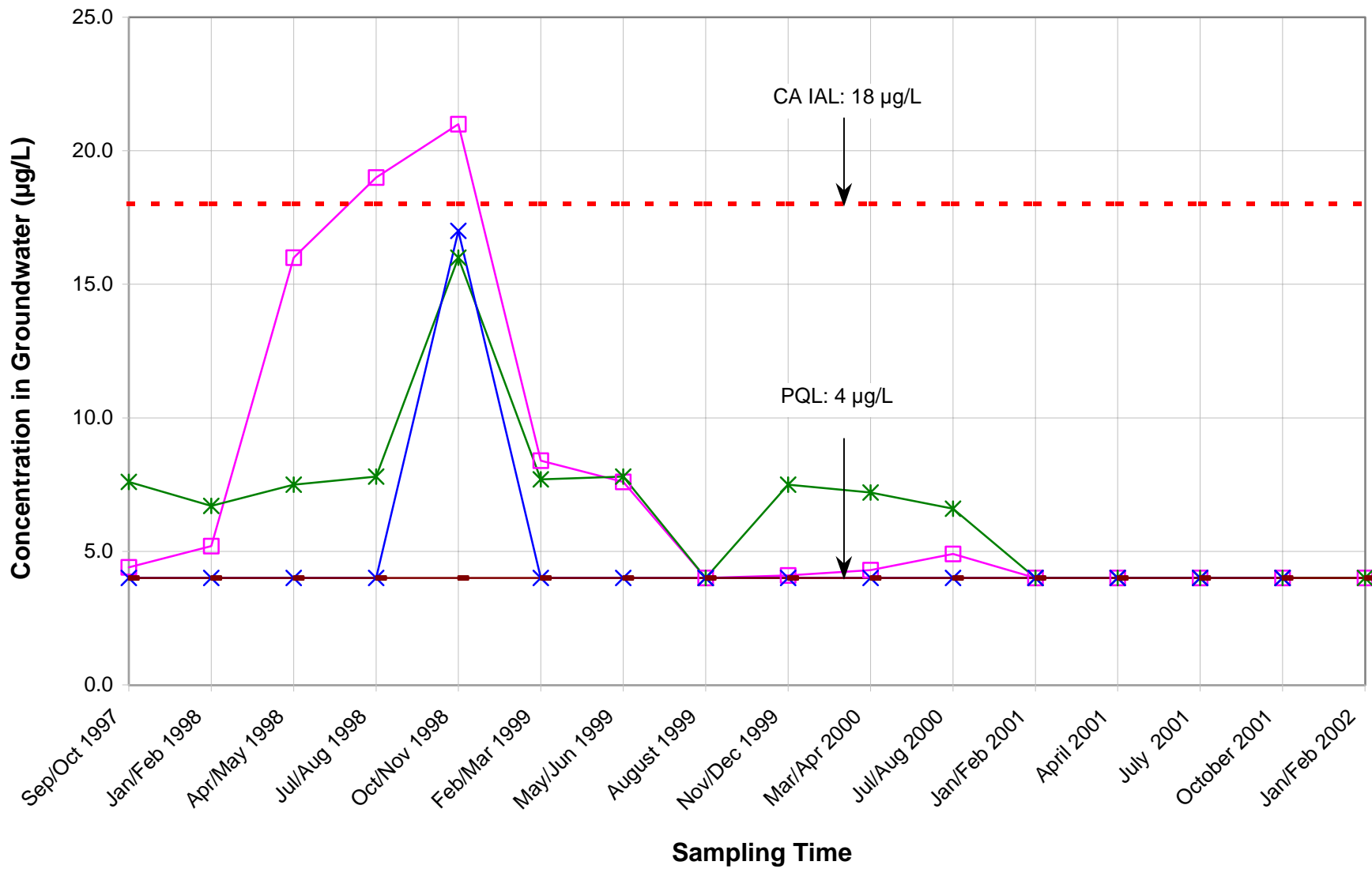


Legend

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

Only concentrations above PQL are plotted. Screen 3 concentrations were below PQL. Screens 4 and 5 were not sampled in October 2001.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-50
TRICHLOROETHENE DETECTED AT MW-23 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.

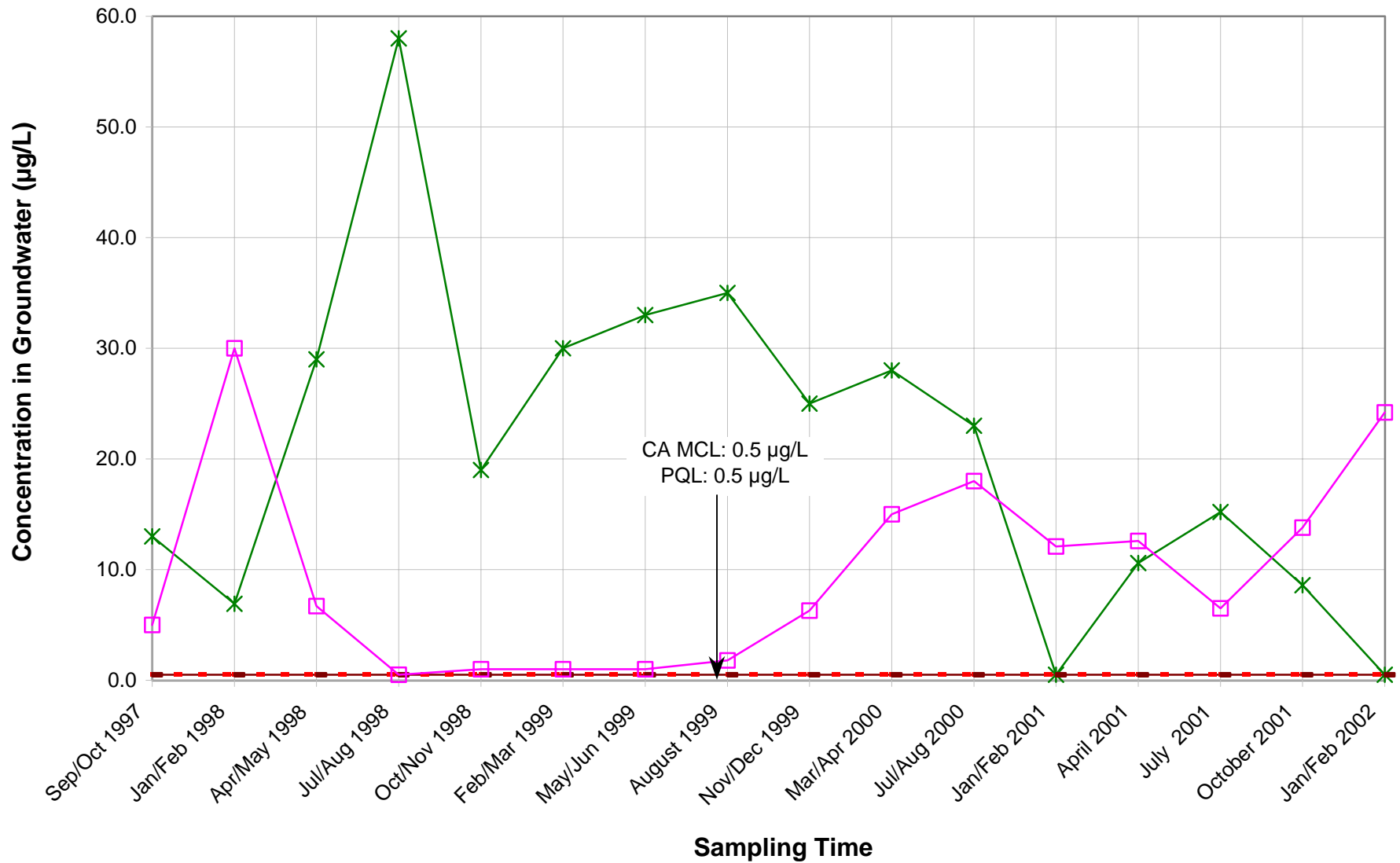


Legend

- Screen 1
- *— Screen 2
- x— Screen 5
- PQL
- - - CAIAL

Only concentrations above PQL are plotted. Screens 3 and 4 concentrations were below PQL. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-51
PERCHLORATE DETECTED AT MW-23 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.



Legend

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

Only concentrations above PQL are plotted. Screen 3 concentrations were below PQL. Screens 4 and 5 were not sampled in October 2001.
 Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

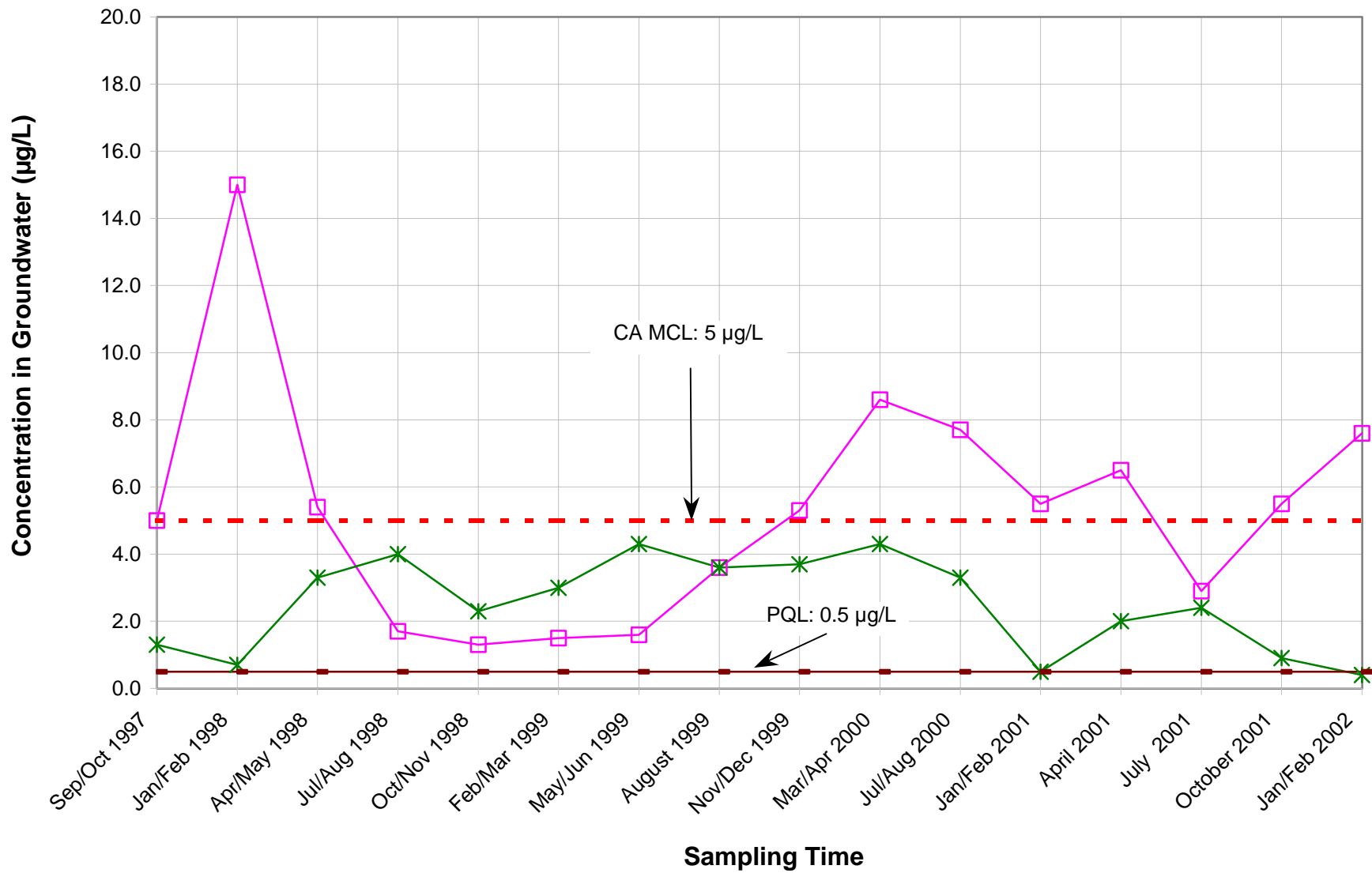
FIGURE 3-52

CARBON TETRACHLORIDE DETECTED AT MW-24 FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



Legend

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

Only concentrations above PQL are plotted. Screen 3 concentrations were below PQL. Screens 4 and 5 were not sampled in October 2001.

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

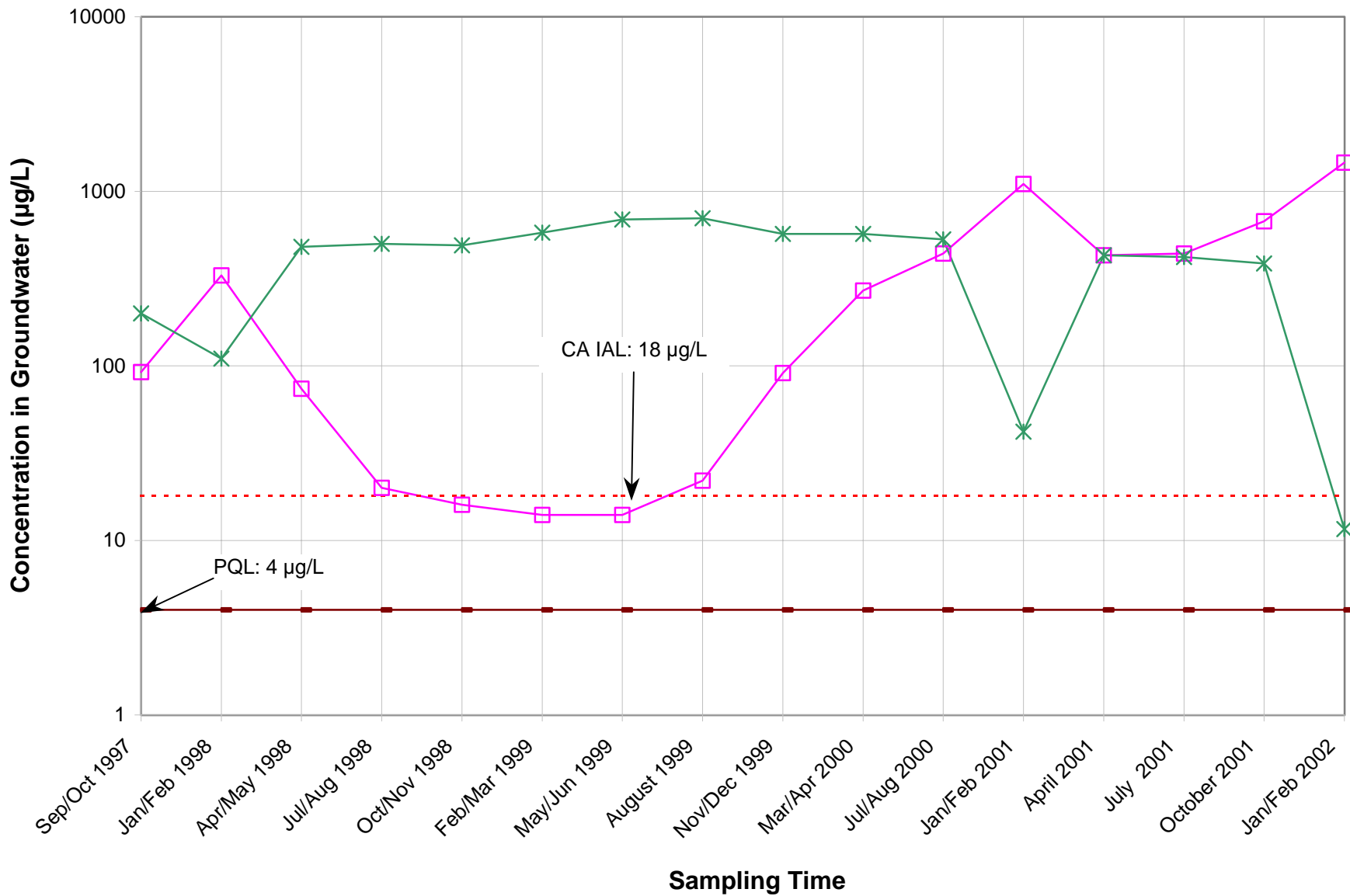
FIGURE 3-53

TRICHLOROETHENE DETECTED AT MW-24
FROM AUG/SEP 1996 TO JAN/FEB 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.



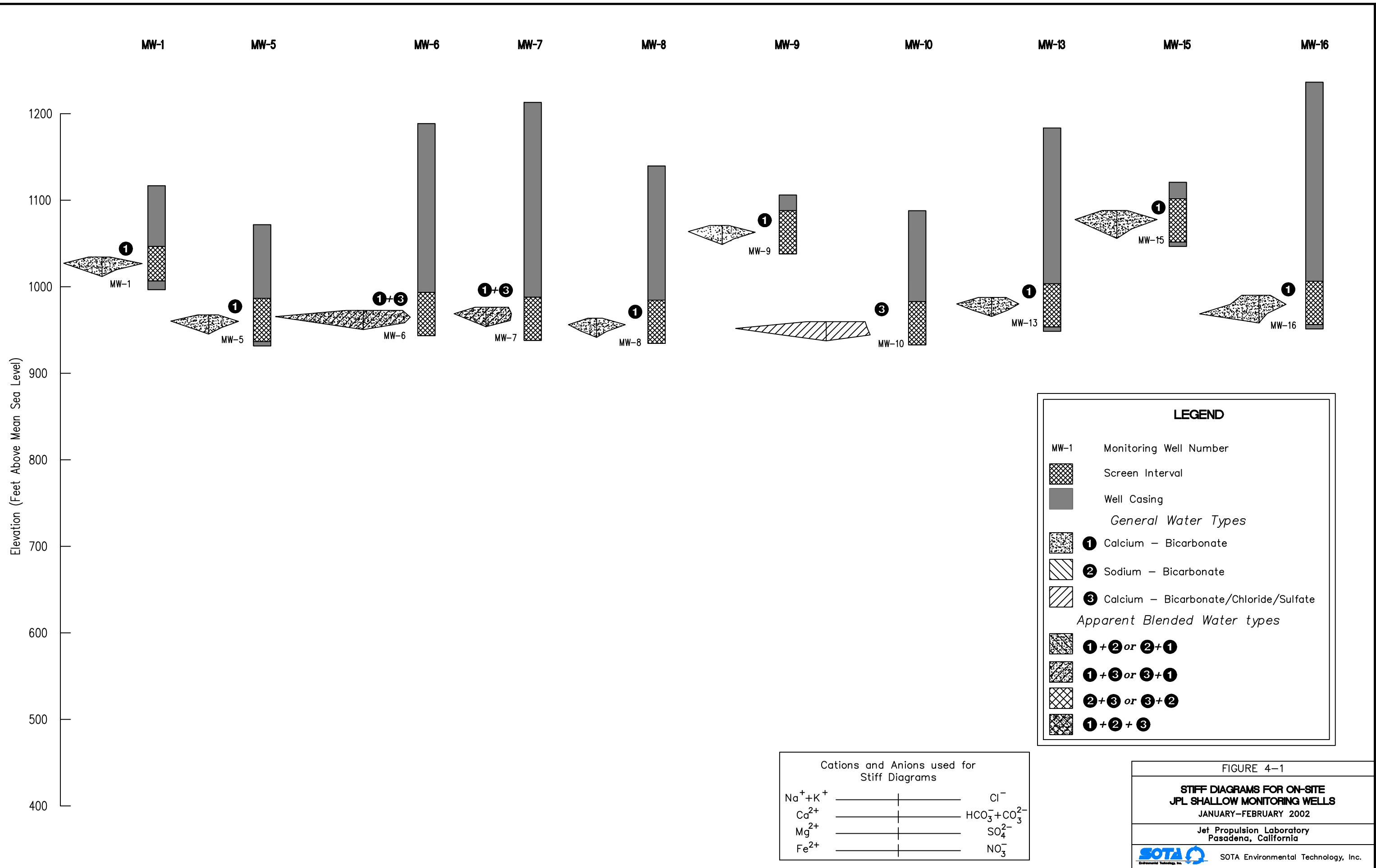
Legend

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

Only concentrations above PQL are plotted. Screen 3 concentrations were below PQL. Screens 4 and 5 were not sampled in October 2001. Values in (Y) axis are represented in Logarithmic scale. Data before Jan/Feb 2001 were obtained from Foster Wheeler Reports.

FIGURE 3-54
PERCHLORATE DETECTED AT MW-24 FROM AUG/SEP 1996 TO JAN/FEB 2002
Jet Propulsion Laboratory Pasadena, California
SOTA Environmental Technology, Inc.





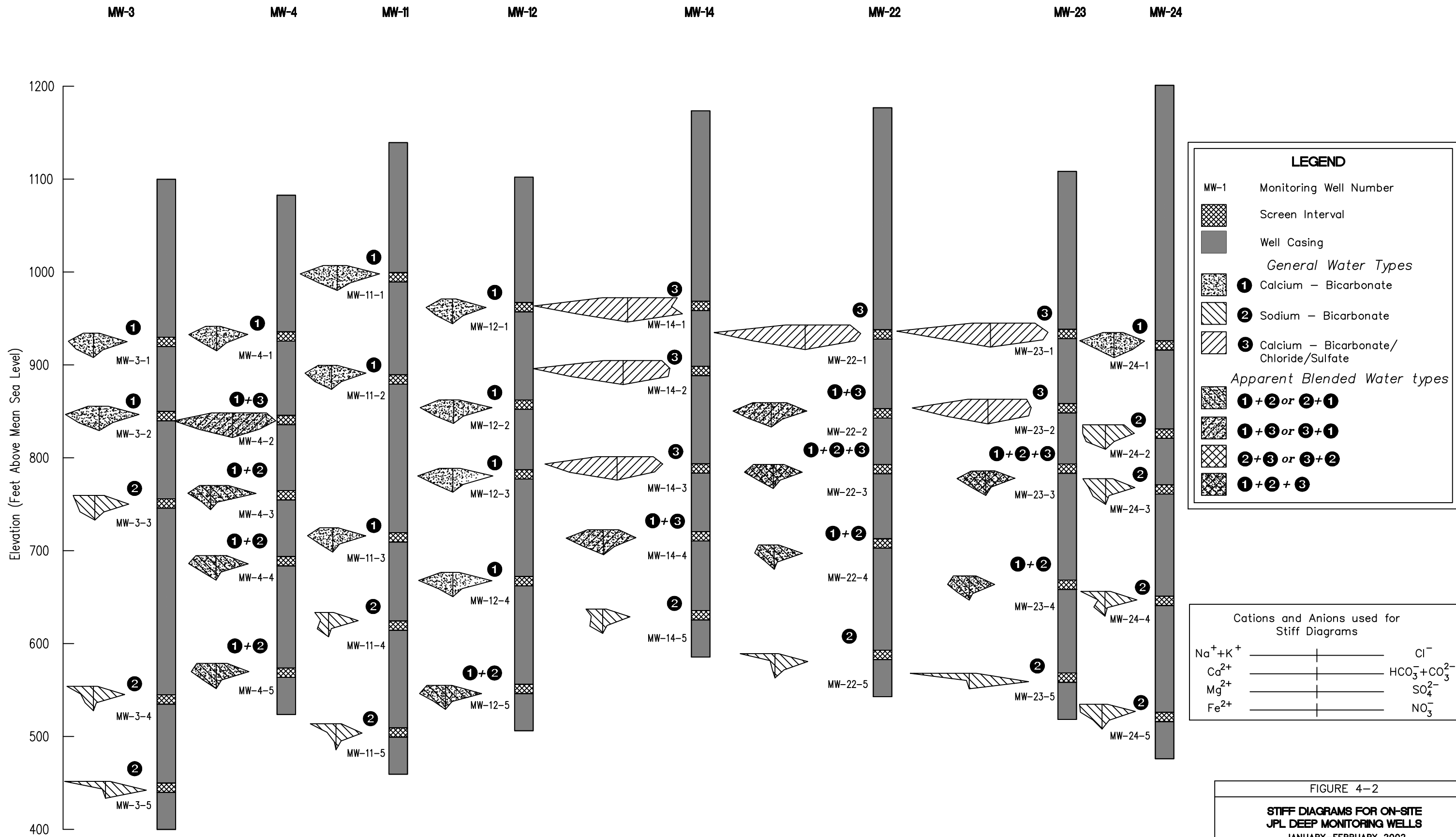


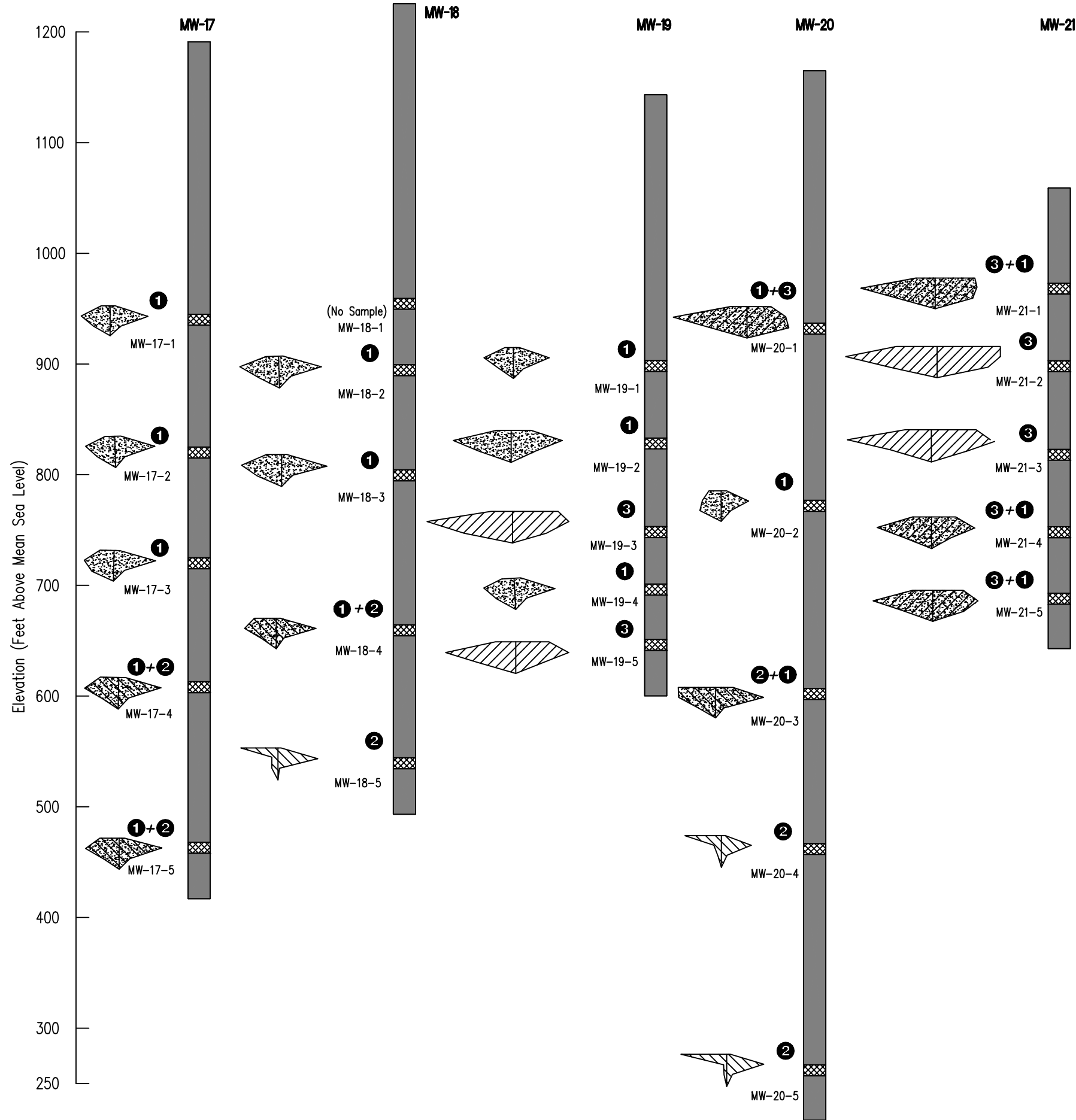
FIGURE 4-2

STIFF DIAGRAMS FOR ON-SITE JPL DEEP MONITORING WELLS

JANUARY-FEBRUARY 2002

Jet Propulsion Laboratory
Pasadena, California

SOTA Environmental Technology, Inc.



LEGEND

MW-1 Monitoring Well Number

Screen Interval

Well Casing

General Water Types

1 Calcium - Bicarbonate

2 Sodium - Bicarbonate

3 Calcium - Bicarbonate/Chloride/Sulfate

Apparent Blended Water types

1+2 or 2+1

1+3 or 3+1

2+3 or 3+2

1+2+3

Cations and Anions used for Stiff Diagrams

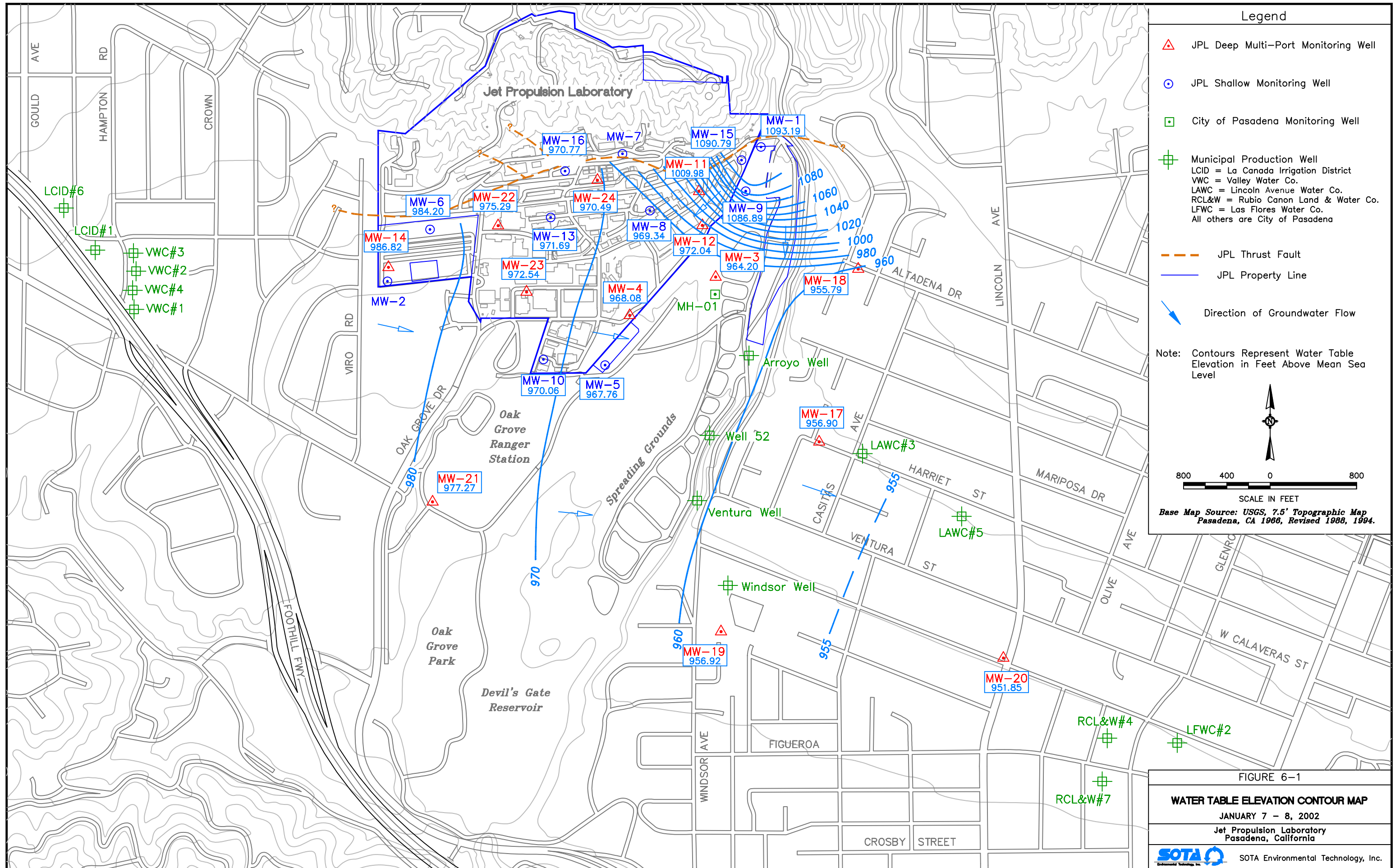
Na ⁺ +K ⁺	_____ _____	Cl ⁻
Ca ²⁺	_____ _____	HCO ₃ ⁻ +CO ₃ ²⁻
Mg ²⁺	_____ _____	SO ₄ ²⁻
Fe ²⁺	_____ _____	NO ₃ ⁻

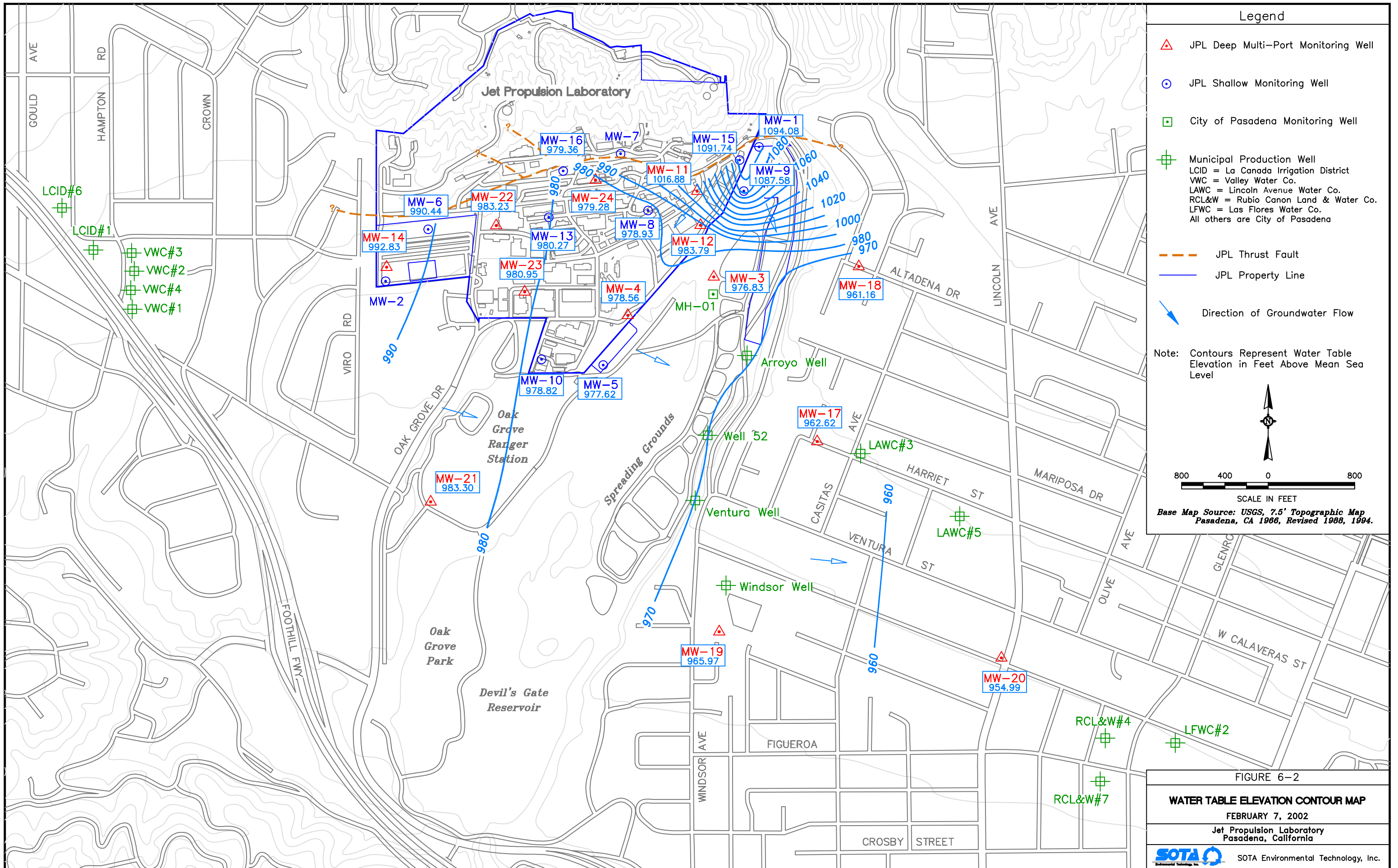
FIGURE 4-3

**STIFF DIAGRAMS FOR OFF-SITE
JPL DEEP MONITORING WELLS**
JANUARY-FEBRUARY 2002

Jet Propulsion Laboratory
Pasadena, California

SOTA Environmental Technology, Inc.

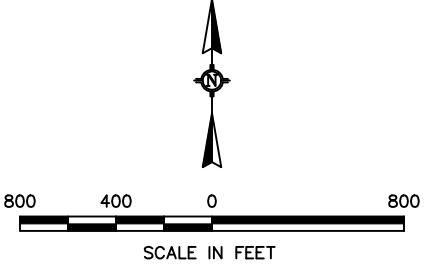




Legend

- ▲ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAW = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFW = Las Flores Water Co.
 All others are City of Pasadena
- JPL Thrust Fault
- JPL Property Line
- Direction of Groundwater Flow

Note: Contours Represent Water Table Elevation in Feet Above Mean Sea Level

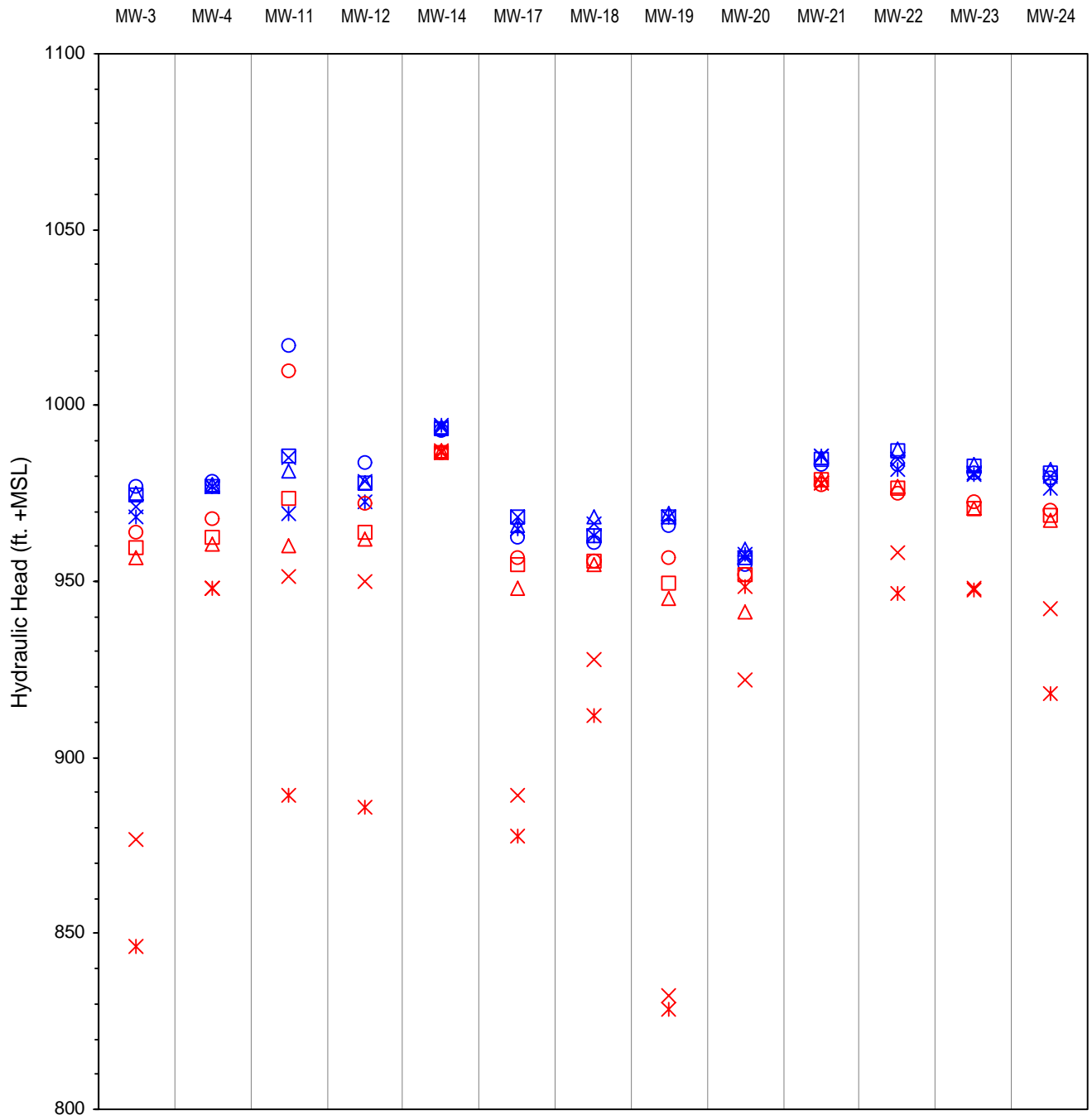


Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1986, Revised 1988, 1994.

FIGURE 6-2

WATER TABLE ELEVATION CONTOUR MAP
 FEBRUARY 7, 2002
 Jet Propulsion Laboratory
 Pasadena, California

Monitoring Well



February 7, 2002

○ Screen 1 □ Screen 2 △ Screen 3 × Screen 4 × Screen 5

January 7 - 8, 2002

○ Screen 1 □ Screen 2 △ Screen 3 × Screen 4 × Screen 5

FIGURE 6-3

**HYDRAULIC HEAD ELEVATIONS
FROM DEEP (MP) WELLS**

JANUARY - FEBRUARY 2002

Jet Propulsion Laboratory
Pasadena, California



SOTA Environmental Technology, Inc.