

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
- AL Action Level (4 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

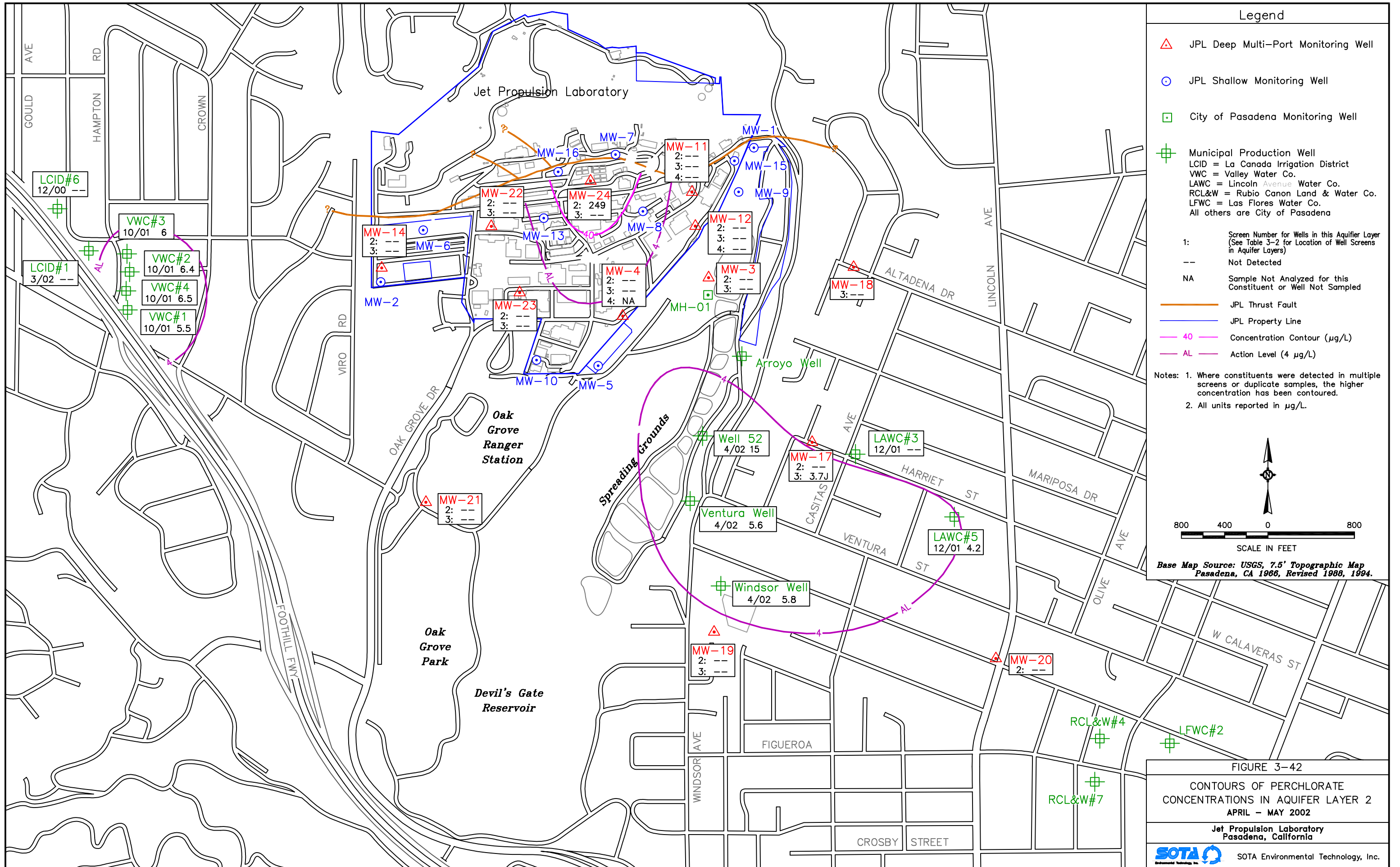
Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 3-41

CONTOURS OF PERCHLORATE
CONCENTRATIONS IN AQUIFER LAYER 2
JANUARY - FEBRUARY 2002

Jet Propulsion Laboratory
Pasadena, California

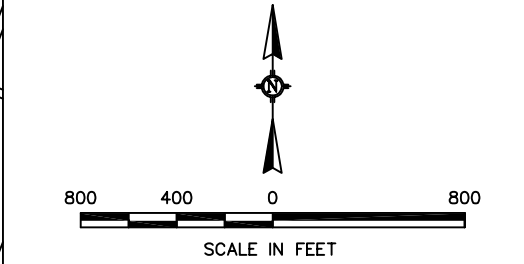
 SOTA Environmental Technology, Inc.



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.
 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
- NA Sample Not Analyzed for this Constituent or Well Not Sampled
- JPL Thrust Fault
 - JPL Property Line
 - 40 Concentration Contour (µg/L)
 - AL Action Level (4 µg/L)

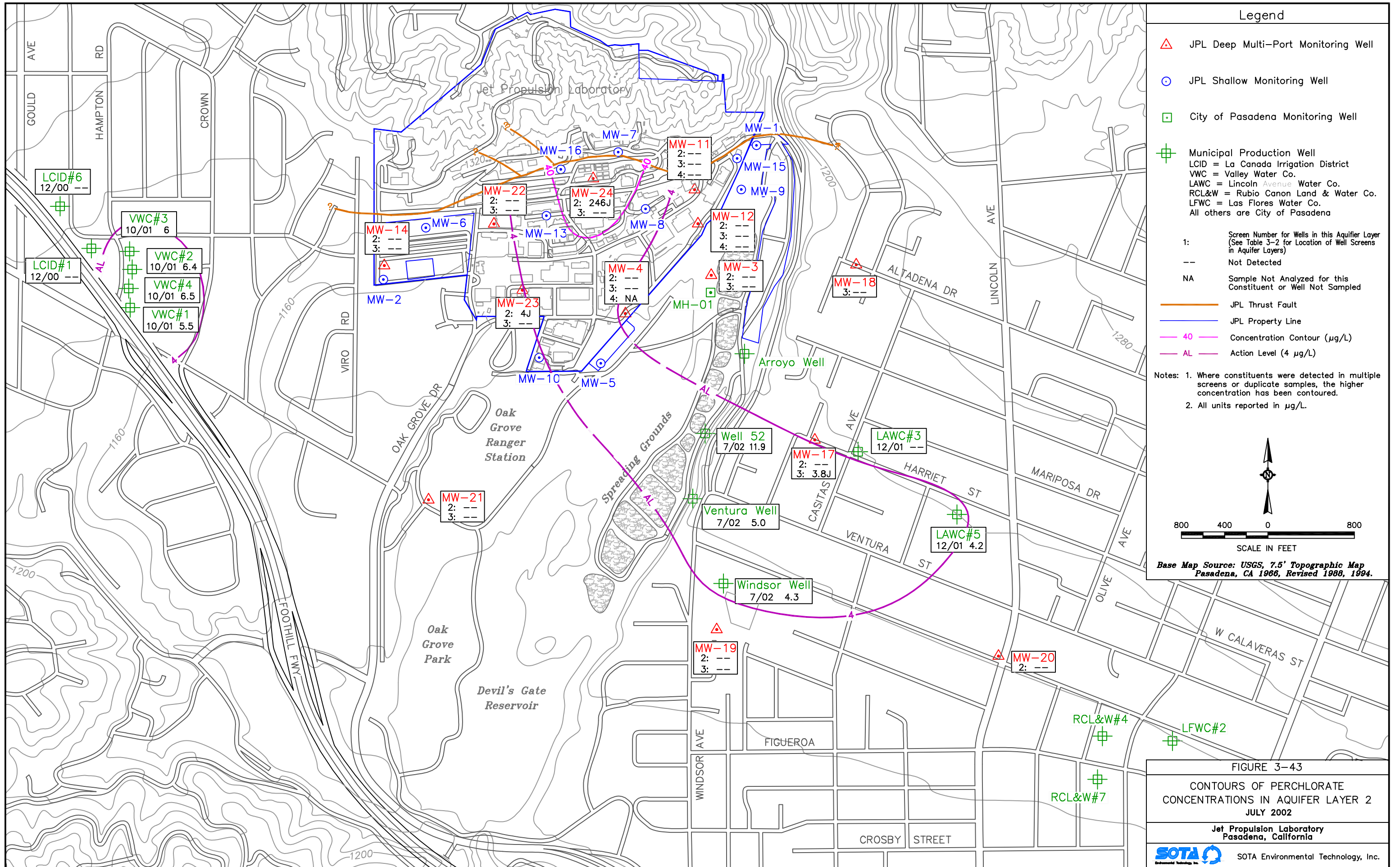
Notes: 1. Where constituents were detected in multiple screens or duplicate samples, the higher concentration has been contoured.
 2. All units reported in µg/L.



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

FIGURE 3-42
 CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 2
 APRIL - MAY 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

NA Sample Not Analyzed for this Constituent or Well Not Sampled

- JPL Thrust Fault
- JPL Property Line
- 40 Concentration Contour (µg/L)
- AL Action Level (4 µg/L)

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

800 400 0 800

SCALE IN FEET

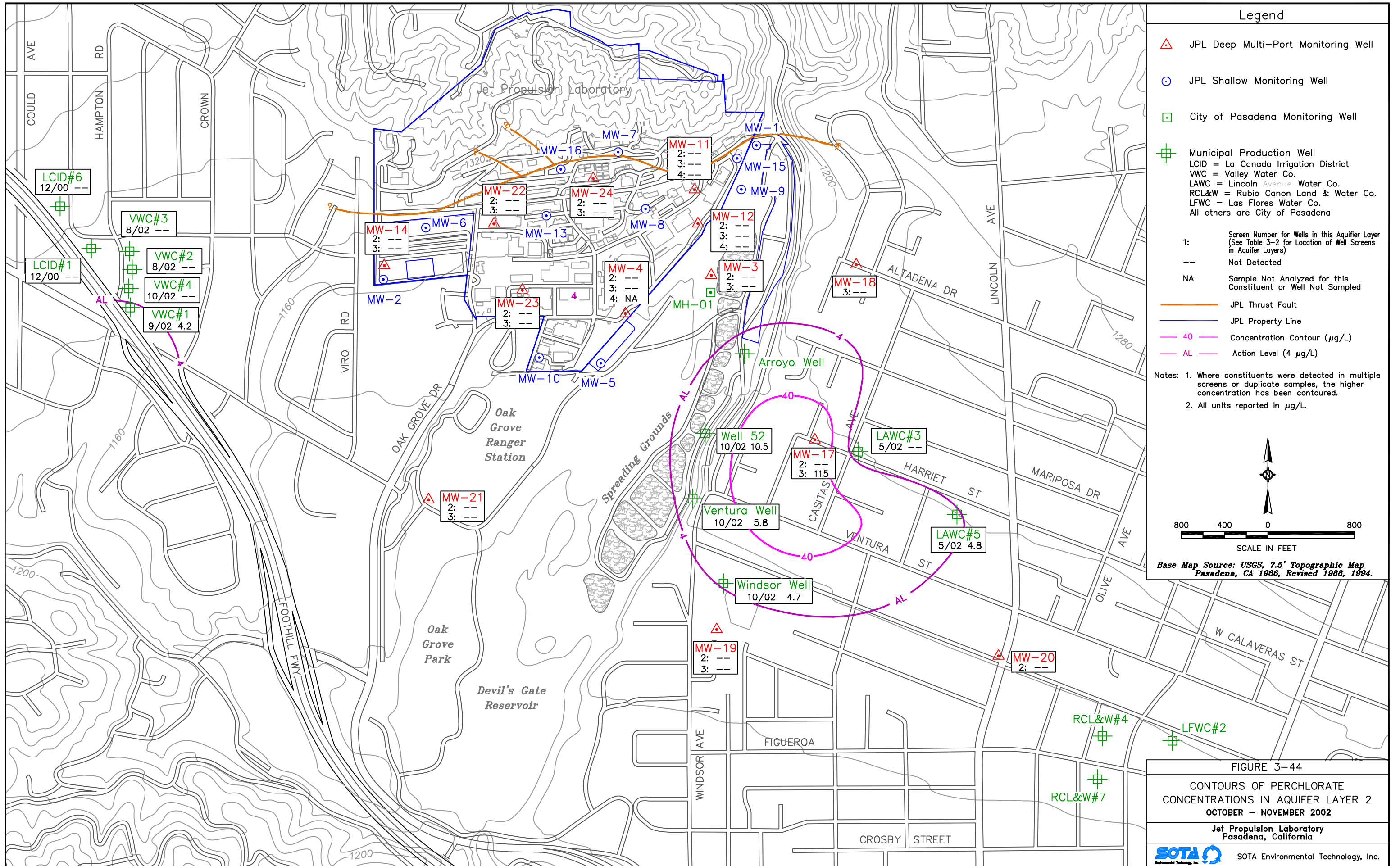
Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 3-43

CONTOURS OF PERCHLORATE
CONCENTRATIONS IN AQUIFER LAYER 2
JULY 2002

Jet Propulsion Laboratory
Pasadena, California

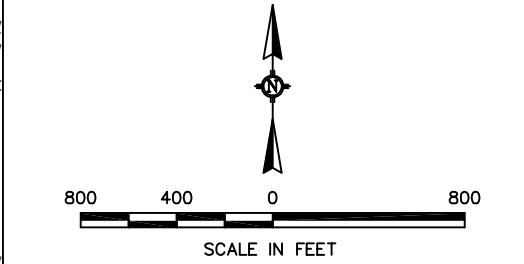
SOTA Environmental Technology, Inc.



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
 NA Sample Not Analyzed for this Constituent or Well Not Sampled
- JPL Thrust Fault
 - JPL Property Line
 - 40 Concentration Contour (µg/L)
 - AL Action Level (4 µg/L)

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



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

FIGURE 3-44
 CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 2
 OCTOBER - NOVEMBER 2002

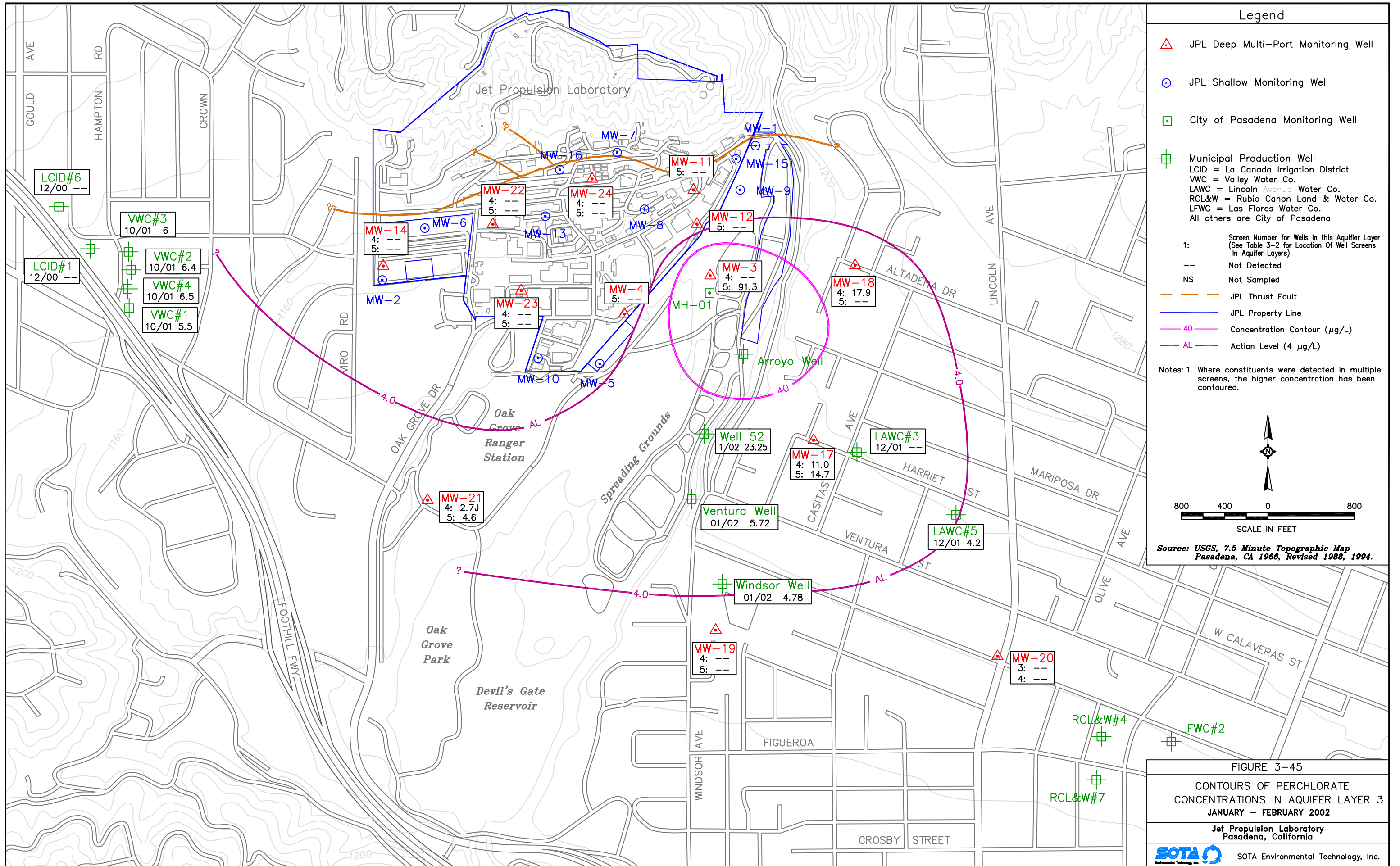
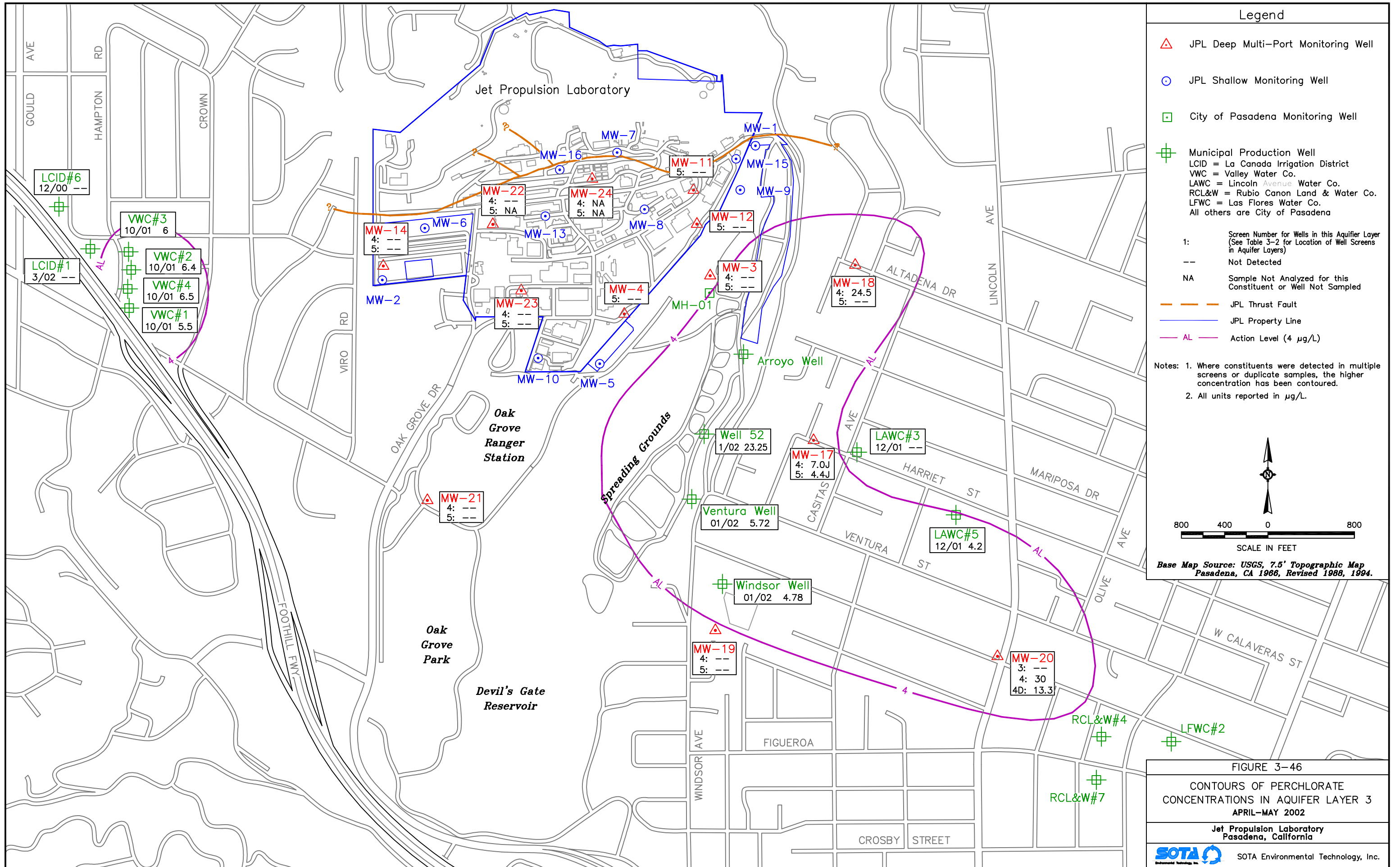


FIGURE 3-45
 CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 3
 JANUARY - FEBRUARY 2002
 Jet Propulsion Laboratory
 Pasadena, California
 SOTA Environmental Technology, Inc.



LCID#6
12/00 --

VWC#3
10/01 6

VWC#2
10/01 6.4

VWC#4
10/01 6.5

VWC#1
10/01 5.5

MW-14
4: --
5: --

MW-22
4: --
5: NA

MW-24
4: NA
5: NA

MW-11
5: --

MW-12
5: --

MW-3
4: --
5: --

MW-18
4: 24.5
5: --

MW-23
4: --
5: --

MW-4
5: --

Well 52
1/02 23.25

MW-17
4: 7.0J
5: 4.4J

LAWC#3
12/01 --

Ventura Well
01/02 5.72

LAWC#5
12/01 4.2

Windsor Well
01/02 4.78

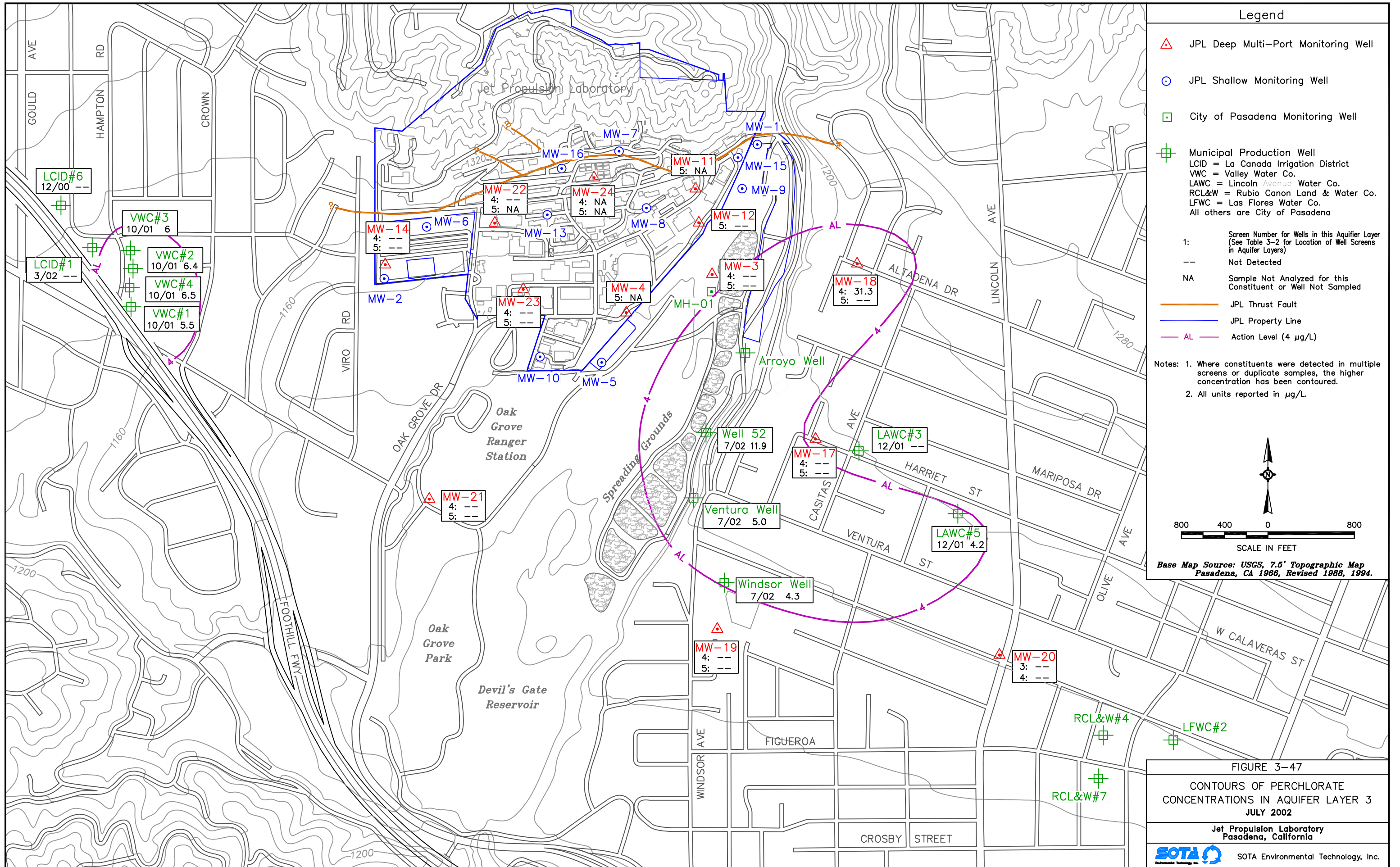
MW-19
4: --
5: --

MW-20
3: --
4: 30
4D: 13.3

RCL&W#4

LFWC#2

RCL&W#7




Legend

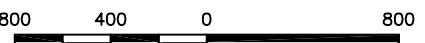
- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAWC = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All 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
 NA Sample Not Analyzed for this Constituent or Well Not Sampled

- JPL Thrust Fault
- JPL Property Line
- AL Action Level (4 µg/L)

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






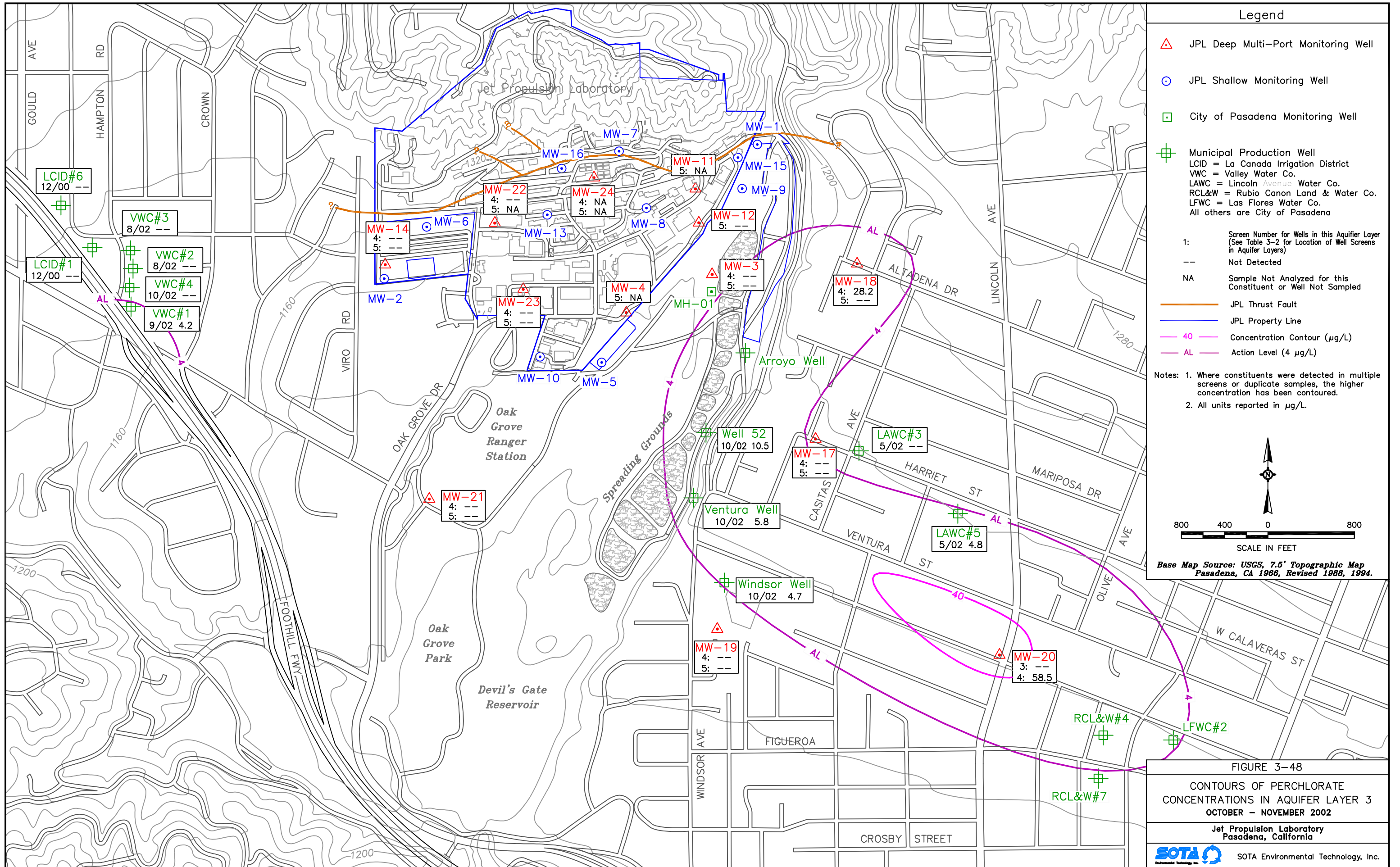
SCALE IN FEET

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

FIGURE 3-47
 CONTOURS OF PERCHLORATE
 CONCENTRATIONS IN AQUIFER LAYER 3
 JULY 2002

Jet Propulsion Laboratory
 Pasadena, California

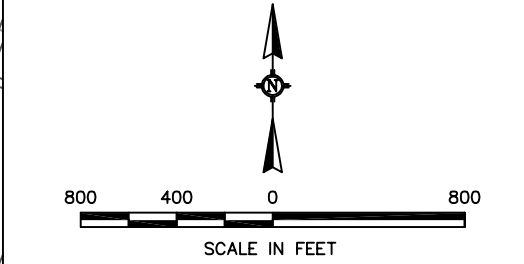
 SOTA Environmental Technology, Inc.



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.
 LAWAC = 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
 NA Sample Not Analyzed for this Constituent or Well Not Sampled
- JPL Thrust Fault
 - JPL Property Line
 - 40 Concentration Contour (µg/L)
 - AL Action Level (4 µg/L)

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



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

FIGURE 3-48
 CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 3
 OCTOBER - NOVEMBER 2002
 Jet Propulsion Laboratory
 Pasadena, California
 SOTA Environmental Technology, Inc.