Jet Propulsion Laboratory

MW-1
MW-2
MW-3
2: 0.3J
3: --
MW-4
2: 0.6
3: --
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
2: --
3: --
4: --
MW-12
2: --
3: --
4: --
MW-13
MW-14
2: 4.6
3: 0.8
MW-15
MW-16
MW-17
2: 6.2
3: 3.1
MW-18
3: 0.4J
MW-19
2: 0.3J
3: 0.3J
MW-20
2: --
MW-21
2: 0.3J
3: 0.7
MW-22
2: --
3: --
MW-23
2: 0.5
3: --
MW-24
2: 0.6
3: --
MH-01

LCID#6
LCID#1
VWC#3
VWC#2
9/18/03 --
VWC#4
9/2/03 --
VWC#1
Arroyo Well
Well 52
Ventura Well
Windsor Well
LAWC#3
LAWC#5
RCL&W#4
RCL&W#7
LFWC#2
9/22/03 --

MCL

GOULD AVE
HAMPTON RD
CROWN RD
VIRO RD
OAK GROVE DR
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRIET ST
MARIPOSA DR
OLIVE AVE
GLENROSE AVE
VENTURA ST
W CALAVERAS ST
FIGUEROA
WINDSOR AVE
CROSBY STREET
FOOTHILL FWY

Oak Grove Ranger Station
Oak Grove Park
Devil's Gate Reservoir
Spreading Grounds

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
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Trichloroethene
- MCL — Maximum Contaminant Level (5.0 ug/L)

N

800 400 0 800

SCALE IN FEET

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

FIGURE 3-5

CONTOURS OF TRICHLOROETHENE CONCENTRATIONS IN AQUIFER LAYER 2

Jet Propulsion Laboratory
Pasadena, California

GEOFON

Jet Propulsion Laboratory

MW-1
MW-2
MW-3
4: --
5: --
MW-4
4: --
5: --
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
5: --
MW-12
5: --
MW-13
MW-14
4: --
5: --
MW-15
MW-16
MW-17
4: 0.8
5: --
MW-18
4: 1.0
5: --
MW-19
4: --
5: 0.3J
MW-20
3: --
4: --
5: --
MW-21
4: 0.5J
5: 0.5J
MW-22
4: --
5: --
MW-23
4: --
5: --
MW-24
4: --
5: --
MH-01

LCID#6
LCID#1
VWC#3
VWC#2
9/18/03 --
VWC#4
9/2/03 --
VWC#1
Arroyo Well
Well 52
Ventura Well
Windsor Well
LAWC#3
LAWC#5
RCL&W#4
RCL&W#7
LFWC#2
9/22/03 --

GOULD AVE
HAMPTON RD
CROWN
VIRO RD
OAK GROVE DR
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRIET ST
MARIPOSA DR
OLIVE AVE
GLENROSE AVE
VENTURA ST
W CALAVERAS ST
FIGUEROA
WINDSOR AVE
CROSBY STREET
FOOTHILL FWY

Oak Grove Ranger Station
Spreading Grounds
Oak Grove Park
Devil's Gate Reservoir

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
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Trichloroethene
- MCL — Maximum Contaminant Level (5.0 ug/L)

N

800 400 0 800
SCALE IN FEET

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

FIGURE 3-6

CONTOURS OF TRICHLOROETHENE CONCENTRATIONS IN AQUIFER LAYER 3

Jet Propulsion Laboratory
Pasadena, California

GEOFON

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

- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Tetrachloroethene
- MCL — Maximum Contaminant Level (5.0 ug/L)

N

800 400 0 800

SCALE IN FEET

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

Jet Propulsion Laboratory

MW-1 --
MW-2
MW-3 1: --
MW-4 1: --
MW-5 --
MW-6 3.0
MW-7 7.2
MW-8 --
MW-9 --
MW-10 1.5
MW-11 --
MW-12 1: --
MW-13 0.9
MW-14 1: 0.4J
MW-15 --
MW-16 --
MW-17 1: --
MW-18 1: -- 2: --
MW-19 1: --
MW-20 1: --
MW-21 1: 0.4J
MW-22 1: 0.9
MW-23 1.1
MW-24 1: 1.6
MH-01

LCID#6
LCID#1
VWC#3
VWC#2
VWC#4
VWC#1
Arroyo Well
Well 52
Ventura Well
Windsor Well
LAWC#3
LAWC#5
RCL&W#4
RCL&W#7
LFWC#2

GOULD AVE
HAMPTON RD
CROWN
VIRO RD
OAK GROVE DR
FOOTHILL FWY
Oak Grove Ranger Station
Oak Grove Park
Devil's Gate Reservoir
Spreading Grounds
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRIET ST
MARIPOSA DR
VENTURA ST
OLIVE AVE
GLENROSE AVE
W CALAVERAS ST
WINDSOR AVE
FIGUEROA
CROSBY STREET

FIGURE 3-7

CONTOURS OF TETRACHLOROETHENE CONCENTRATIONS IN AQUIFER LAYER 1

Jet Propulsion Laboratory
Pasadena, California

GEOFON

Jet Propulsion Laboratory

MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24

MW-14
2: 0.7
3: 0.6

MW-4
2: 1.0
3: --

MW-23
2: 0.5J
3: --

MW-11
2: --
3: --
4: --

MW-12
2: --
3: --
4: --

MW-3
2: --
3: --

MW-18
2: --
3: 0.4J

MW-17
2: 0.4J
3: 0.4J

MW-21
2: 2.2
3: 1.6

MW-19
2: 1.5
3: 1.4

MW-20
2: --

MH-01

LCID#6
LCID#1
VWC#3
VWC#2
VWC#4
9/2/03 1.6
VWC#1
Arroyo Well
Well 52
Ventura Well
Windsor Well
LAWC#3
LAWC#5
RCL&W#4
RCL&W#7

LFWC#2
9/2/03 11.0 10/13/03 14.0
9/8/03 11.0 10/20/03 14.0
9/15/03 10.0 10/27/03 8.8
9/22/03 8.7 11/3/03 18.0
9/29/03 13.0 11/10/03 13.0
10/6/03 13.0 11/17/03 11.0

GOULD AVE
HAMPTON RD
CROWN RD
VIRO RD
OAK GROVE DR
FOOTHILL FWY
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRIET ST
MARIPOSA DR
OLIVE AVE
GLENROSE AVE
VENTURA ST
W CALAVERAS ST
WINDSOR AVE
FIGUEROA
CROSBY STREET

Oak Grove Ranger Station
Oak Grove Park
Devil's Gate Reservoir
Spreading Grounds

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
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Tetrachloroethene
- MCL — Maximum Contaminant Level (5.0 ug/L)

N

800 400 0 800

SCALE IN FEET

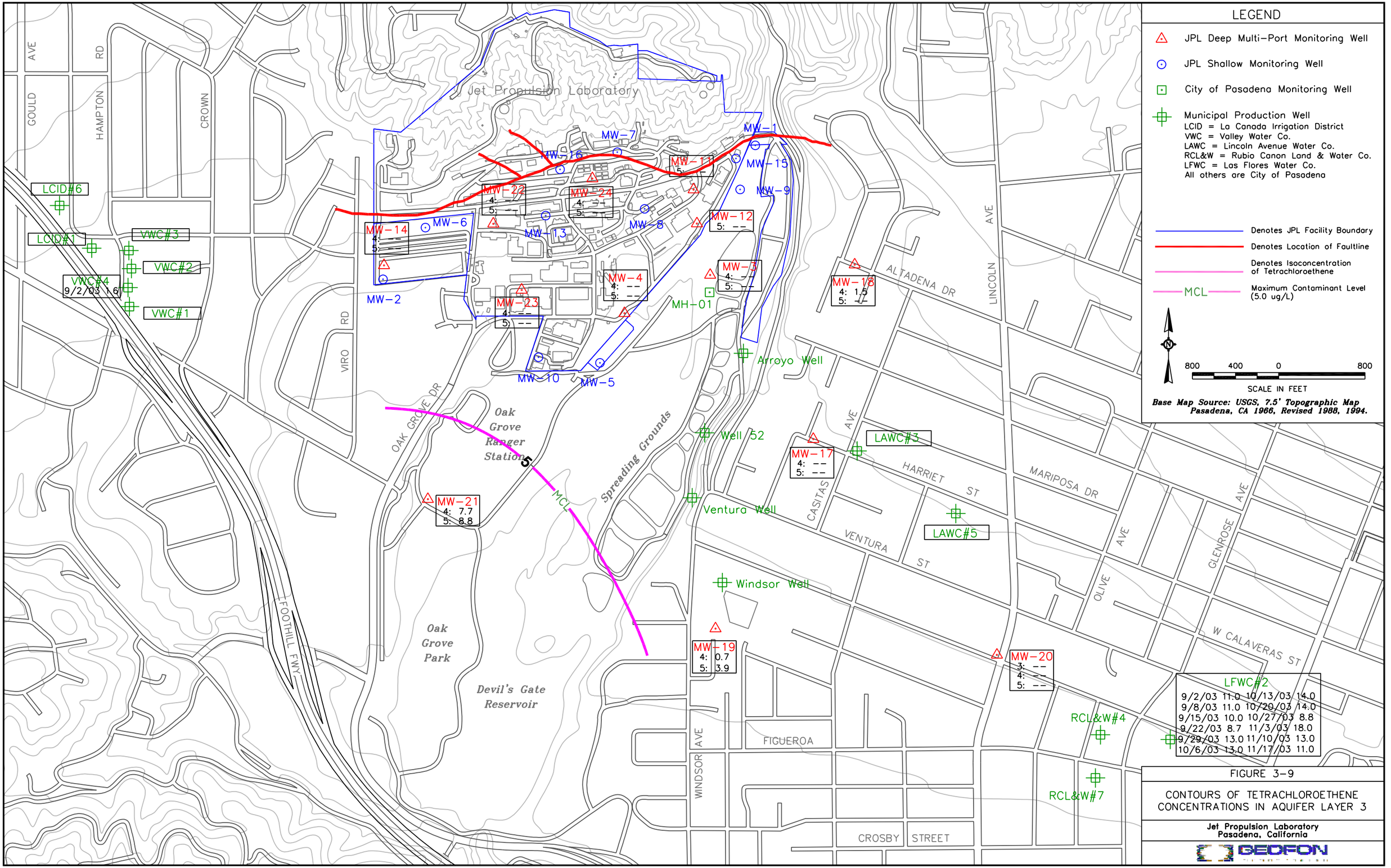
Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 3-8

CONTOURS OF TETRACHLOROETHENE CONCENTRATIONS IN AQUIFER LAYER 2

Jet Propulsion Laboratory
Pasadena, California

GEOFON



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
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Tetrachloroethene
- MCL — Maximum Contaminant Level (5.0 ug/L)

N

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

Jet Propulsion Laboratory
Pasadena, California

GEOFON

Jet Propulsion Laboratory

MW-7 2400J
MW-16 1360J
MW-1 --
MW-15 --
MW-11 --
MW-9 3J
MW-22 1: 2.2J
MW-24 1: 2760J
MW-6 3.6J
MW-13 223J
MW-8 20.2
MW-12 1: --
MW-3 1: --
MW-14 1: 6.6J
MW-23 1: 3.1J
MW-4 1: --
MW-2
MW-10 21.9J
MW-5 --
MW-18 1: -- 2: --
MW-17 1: --
MW-21 1: 6.5
MW-19 1: --
MW-20 1: 4.1J

2000
1000
500
4

LCID#6
LCID#1
VWC#3
VWC#2
VWC#4
VWC#1
MH-01
Arroyo Well
Well 52
LAWC#3
Ventura Well
LAWC#5
Windsor Well
RCL&W#4
LFWC#2
RCL&W#7

GOULD AVE
HAMPTON RD
CROWN AVE
VIRO RD
OAK GROVE DR
FOOTHILL FWY
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRIET ST
MARIPOSA DR
VENTURA ST
OLIVE AVE
GLENROSE AVE
W CALAVERAS ST
WINDSOR AVE
FIGUEROA
CROSBY STREET

Oak Grove Ranger Station
Oak Grove Park
Devil's Gate Reservoir
Spreading Grounds

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
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Perchlorate
- AL — Action Level (4 ug/L)

N

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

Jet Propulsion Laboratory
Pasadena, California

GEOFON

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

- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Perchlorate
- AL — Action Level (4 ug/L)

N

800 400 0 800

SCALE IN FEET

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

Jet Propulsion Laboratory

MW-1
MW-2
MW-4 2: 4.3J 3: -- 4: --
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11 2: -- 3: -- 4: --
MW-12 2: -- 3: -- 4: 3.8J
MW-13
MW-14 2: 4.7J 3: 7.2J
MW-15
MW-16
MW-17 2: 15.7J 3: 199J
MW-18 3: --
MW-19 2: 4.4J 3: 5.1J
MW-20 2: --
MW-21 2: 2.7J 3: 3.6J
MW-22 2: 2.4J 3: 2.6J
MW-23 2: 5.4J 3: --
MW-24 2: 155 3: --
MW-3 2: 5.6J 3: --

MH-01
Arroyo Well
Well 52
Venturi Well
Windsor Well
LAWC#3
LAWC#5
RCL&W#4 10/6/03 4.3
RCL&W#7 10/6/03 4.0

LFWC#2

9/2/03	6.8	10/13/03	6.6
9/8/03	6.1	10/20/03	6.5
9/15/03	5.7	10/27/03	4.5
9/22/03	6.5	11/3/03	5.6
9/29/03	6.3	11/10/03	4.9
10/6/03	6.3	11/17/03	6.6

LCID#6
LCID#1
VWC#3
VWC#2
VWC#4
VWC#1

100
50
AL

Oak Grove Ranger Station
Oak Grove Park
Devil's Gate Reservoir
Spreading Grounds

GOULD AVE
HAMPTON RD
CROWN RD
VIRO RD
OAK GROVE DR
FOOTHILL FWY
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRET ST
MARIPOSA DR
VENTURA ST
OLIVE AVE
GLENROSE AVE
W CALAVERAS ST
WINDSOR AVE
FIGUEROA
CROSBY STREET

FIGURE 3-11

CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 2

Jet Propulsion Laboratory
Pasadena, California

GEOFON

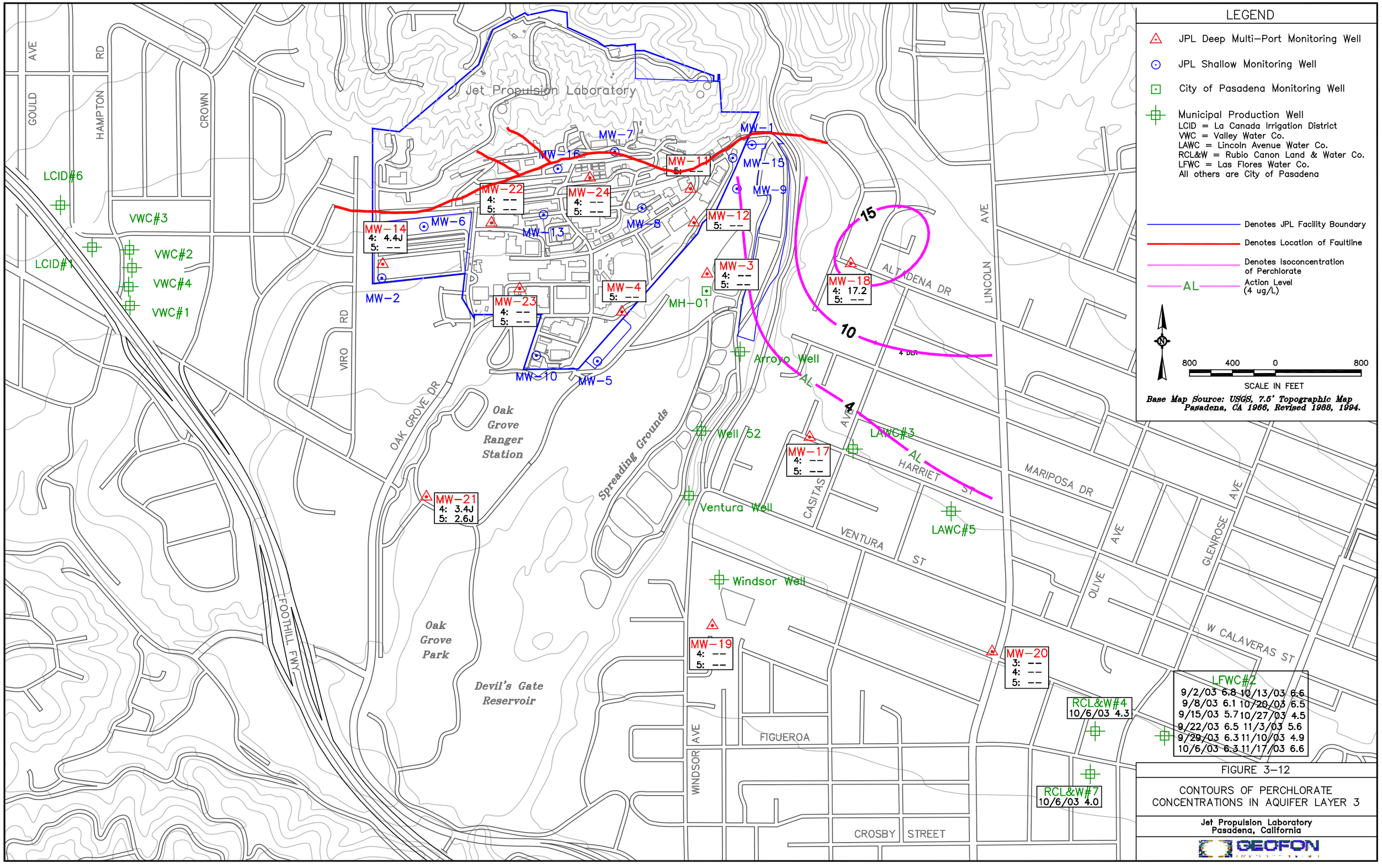


FIGURE 3-12

CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 3

Jet Propulsion Laboratory
Pasadena, California

GEOFON