2007 REPORT
SAN FERNANDO VALLEY SUPERFUND SITES
GROUNDWATER MONITORING PROGRAM

SAN FERNANDO VALLEY
LOS ANGELES COUNTY, CALIFORNIA

Text Excluding Appendices

United States Environmental Protection Agency

July 2009

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SAN FERNANDO VALLEY
LOS ANGELES COUNTY, CALIFORNIA

USEPA CONTRACT NO. EP-S9-08-04
USEPA WORK ASSIGNMENT NO. 033-RICO-0959

Prepared for

United States Environmental Protection Agency
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Acronyms and Abbreviations

µg/L	micrograms per liter
1,2,3-TCP	1,2,3-trichloropropane
BOU	Burbank Operable Unit
chromium(VI)	chromium oxidation state +6, often referred to as hexavalent chromium
CLP	USEPA's Contract Laboratory Program
CRQL	contract required quantification limit
CVWD	Crescenta Valley Water District
DCA	dichloroethane
DCE	dichloroethene
DTSC	California Department of Toxic Substances Control
GIS	Geographic Information System
GNOU	Glendale North Operable Unit
GSOU	Glendale South Operable Unit
L/MVOA	low-medium volatile organic analyte
LADWP	Los Angeles Department of Water and Power
LMC	Lockheed Martin Corporation
MCL	maximum contaminant level
MDL	method detection limit
mg/L	milligrams per liter
ND	not detected
NDMA	n-nitrosodimethylamine
NHOU	North Hollywood Operable Unit
NO_3	nitrate
NPL	National Priority List
OU	operable unit
PCE	perchloroethylene, also known as tetrachloroethylene

PDB	polyethylene diffusion bag
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance/quality control
RAC	Response Action Contract
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
SFV	San Fernando Valley
TCE	trichloroethylene
TCP	trichloropropane
TDS	total dissolved solids
TO	Task Order
TOC	total organic carbon
TVOA	trace volatile organic analyte
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
VPB	vertical profile boring

1.0 Introduction

This report summarizes results of quarterly groundwater monitoring conducted in 2007 in the San Fernando Valley (SFV). The U.S. Environmental Protection Agency (USEPA) has monitored groundwater quality in the SFV Basin (shown in Figure 1-1) since 1992. At that time, 84 groundwater monitoring wells were constructed during a remedial investigation (RI) for the SFV Superfund Sites (James M. Montgomery Consulting Engineers, 1992). These wells are referred to as the "RI monitoring wells"; well completion details are presented in Appendix A. The monitoring program involves the collection of groundwater samples from the RI monitoring wells, incorporation of the water quality data into the USEPA's SFV database and Geographic Information System (GIS), and the presentation of data from the SFV groundwater monitoring program in an annual report.

In addition to USEPA's RI monitoring well sampling program, other agencies and facilities in the SFV conduct periodic groundwater sampling of facility monitoring wells and municipal production (water supply) wells. Locations for these monitoring and production wells are shown on Figures 1-2 (at the end of this section) and 3-1 (at the end of Section 3). USEPA collects and integrates available groundwater data from these other sources into the SFV database. Data from facility monitoring wells are transmitted by the California Regional Water Quality Control Board (RWQCB), California Department of Toxic Substances Control (DTSC), and in some cases directly from facilities (e.g., Honeywell Inc. and Lockheed-Martin Corporation [LMC]), to the USEPA. Data from production wells in the SFV are obtained from local groundwater purveyors (Los Angeles Department of Water and Power [LADWP], Crescenta Valley Water District [CVWD], and the cities of Glendale and Burbank) and incorporated into the SFV database. The SFV database is the primary data source for generation of concentration contour maps accompanying this report.

The results of the first, second, third, and fourth quarterly sampling events for 2007—conducted from March 6 through March 29, 2007; June 12 through June 22, 2007; September 10 through September 25, 2007; and November 27 through December 20, 2007—are described in this report.

1.1 Setting

The San Fernando Valley is a 112,000-acre alluvial basin in the south-central portion of the Transverse Ranges in Los Angeles County, California. The SFV is bordered on the east by the Verdugo Mountains, on the west by the Simi Hills, on the north by the Santa Susana and San Gabriel Mountains, and on the south by the Santa Monica Mountains. The SFV Superfund Sites are located in the eastern portion of the SFV, between the Verdugo and Santa Monica Mountains. The SFV Superfund Sites include four distinct Investigation Areas, as follows (see Figure 1-1):

- **Area 1 – North Hollywood:** Includes the North Hollywood Operable Unit (NHOU) and the Burbank Operable Unit (BOU).

- **Area 2 – Crystal Springs:** Includes the Glendale North and Glendale South Operable Units (GNOU and GSOU, respectively).
- **Area 3 – Verdugo:** This site was removed from the National Priorities List (NPL) in 2004 after issuance of a no-action Record of Decision (ROD), meaning that this Area is no longer considered an active Superfund site; however, water quality data are still collected from the RI monitoring wells in the former Area 3 and input into the SFV database.
- **Area 4 – Pollock:** Includes the areas south of the GSOU through the L.A. River Narrows.

1.2 Background

During the history of the SFV groundwater monitoring program, the sampling frequency for the RI monitoring wells has been modified based on measured concentrations of volatile organic compounds (VOCs) and/or other constituents of concern exceeding their respective maximum contaminant levels (MCLs). Currently, all SFV monitoring wells are targeted for sampling at least once per year during the annual (fourth quarter) sampling event, and RI monitoring wells exceeding the MCLs for VOCs (based on consistent concentrations above the MCLs in previous sampling events) are also sampled quarterly. Furthermore, RI monitoring wells with detected chromium(VI)[1] concentrations exceeding 5 micrograms per liter (µg/L) (one-tenth of the MCL for total dissolved chromium) are also sampled quarterly. During 2007 the number of the RI monitoring wells included in the quarterly sampling events (first through third quarters) ranged from 47 to 50, while 68 were sampled during the annual (fourth quarter) event.

The number of RI monitoring wells assigned to the quarterly sampling program in 2007 was 58. However, only 50 of these could be sampled in 2007. Various circumstances that affected the number of RI monitoring wells sampled during 2007 included equipment failures (e.g., pump inoperable, separated piping); vehicles blocking access; and insufficient pump submergence or water levels below pump intake, resulting in no water reaching the surface during pumping. A summary of RI wells sampled during the first, second, third, and fourth quarter sampling events of 2007 is presented in Table 1-1.

1.3 Report Organization

This report is organized into sections that describe the activities and analytical results of the USEPA groundwater monitoring program in the SFV for 2007. Section 2.0 describes the observations, procedures, activities, field measurements, and analytical results of the first, second, third, and fourth quarter 2007 sampling events. Section 3.0 presents a comparison of the quarterly analytical and water level data for the three active USEPA Areas (Area 1, Area 2, and Area 4) included within the SFV Superfund Sites. Included are discussions of perchloroethylene (PCE) and trichloroethylene (TCE) detected, trends in the Shallow Zone and Deeper Zone, other VOCs detected, and chromium(VI) and other metals. In Subsection 3.4.5, significant observations, a summary of VOC and chromium trends, and recommendations are presented. References cited in this report are presented in Section 4.0.

[1] Chromium(VI) = chromium oxidation state +6, often referred to as hexavalent chromium.

Tables and figures are presented at the end of each section. Table 1-1 at the end of this section lists the dates that the RI monitoring wells were sampled in 2007; Tables 2-1 through 2-8 at the end of Section 2 summarize the data collected during the 2007 sampling events and summarize historical comparisons between the 2007 data and data from previous quarters. Table 3-1 presents VOC concentrations that exceed MCLs for RI wells sampled in 2007. Table 3-2 shows the area of each contaminant plume in 2007, and Table 3-3 details wells which were unable to be sampled in 2007.

Construction data for RI monitoring wells are presented in Appendix A. Criteria for the selection of data representative of current conditions are presented in Appendix B. Appendix C contains information on submersible pump installation. Copies of the Field Quality Control Summary forms from the first, second, third, and fourth quarter 2007 sampling events are provided in Appendix D. Summaries of all detected compounds for these sampling events are presented in Appendix E. TCE and PCE concentration data are presented in Appendices F and G, respectively. Appendix H presents graphs of historical TCE and PCE concentrations and groundwater elevations for the RI monitoring wells in the USEPA SFV monitoring well network.

TABLE 1-1
Wells Sampled - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
CS-C01-105	3/13/2007	6/22/2007	9/21/2007	12/12/2007
CS-C01-285	3/13/2007	6/22/2007	9/21/2007	12/12/2007
CS-C01-558	A	A	A	11/30/2007
CS-C02-062	3/14/2007	6/19/2007	9/25/2007	12/10/2007
CS-C02-180	3/14/2007	6/19/2007	9/25/2007	12/10/2007
CS-C02-250	3/14/2007	6/19/2007	9/25/2007	12/10/2007
CS-C02-335	3/14/2007	6/19/2007	9/25/2007	12/10/2007
CS-C03-100	3/13/2007	6/19/2007	9/12/2007	12/10/2007
CS-C03-325	A	A	A	12/17/2007
CS-C03-465	Inoperable	Inoperable	Inoperable	Inoperable
CS-C03-550	A	A	A	12/17/2007
CS-C04-290	3/22/2007	6/20/2007	9/12/2007	12/5/2007
CS-C04-382	3/22/2007	6/20/2007	9/12/2007	12/5/2007
CS-C04-520	A	A	A	11/30/2007
CS-C05-160	3/16/2007	6/14/2007	9/14/2007	12/6/2007
CS-C05-290	3/16/2007	6/14/2007	9/14/2007	12/6/2007
CS-C06-185	3/22/2007	6/21/2007	9/13/2007	Blocked
CS-C06-278	A	A	A	Blocked
CS-VPB-01	3/15/2007	6/22/2007	9/19/2007	Inoperable
CS-VPB-02	A	A	A	11/29/2007
CS-VPB-03	3/13/2007	6/19/2007	9/13/2007	12/11/2007
CS-VPB-04	3/22/2007	6/20/2007	9/12/2007	12/5/2007
CS-VPB-05	3/16/2007	6/14/2007	9/14/2007	12/6/2007
CS-VPB-06	3/22/2007	6/21/2007	9/13/2007	12/11/2007
CS-VPB-07	3/15/2007	6/20/2007	9/19/2007	12/13/2007
CS-VPB-08	3/13/2007	6/15/2007	9/12/2007	12/5/2007
CS-VPB-09	3/16/2007	6/14/2007	9/13/2007	12/11/2007
CS-VPB-10	3/22/2007	6/14/2007	9/13/2007	12/11/2007
CS-VPB-11	3/22/2007	6/15/2007	9/19/2007	12/13/2007
NH-C01-325	3/14/2007	6/20/2007	9/19/2007	12/12/2007
NH-C01-450	Inoperable	Inoperable	Inoperable	Inoperable
NH-C01-660	A	A	A	11/28/2007

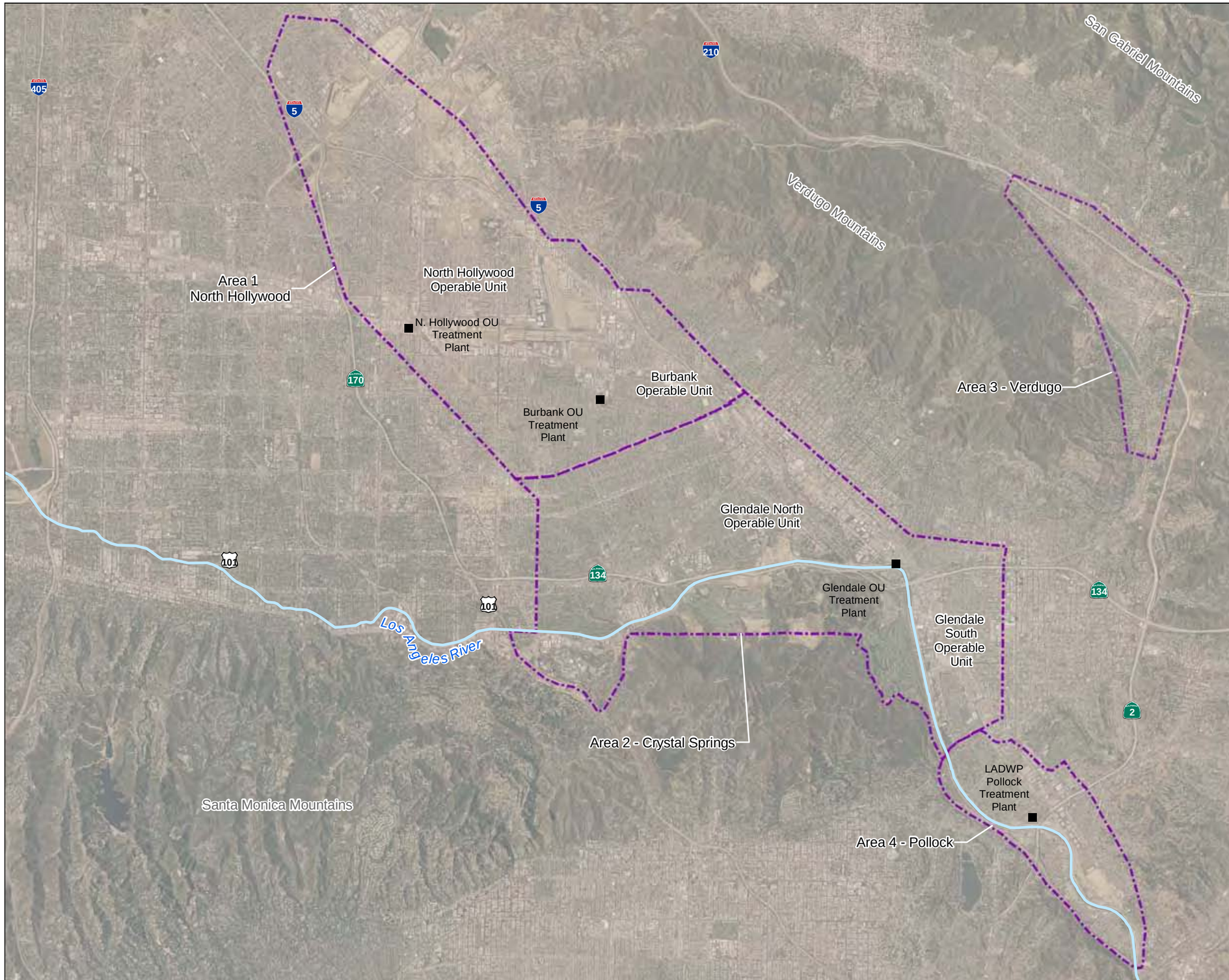
TABLE 1-1
Wells Sampled - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
NH-C01-780	A	A	A	11/28/2007
NH-C02-220	3/12/2007	6/18/2007	9/17/2007	12/3/2007
NH-C02-325	3/12/2007	6/18/2007	9/17/2007	12/3/2007
NH-C02-520	3/12/2007	6/18/2007	9/17/2007	12/3/2007
NH-C02-681	A	A	A	12/3/2007
NH-C03-380	A	A	A	11/27/2007
NH-C03-580	A	A	A	11/27/2007
NH-C03-680	A	A	A	11/27/2007
NH-C03-800	A	A	A	11/27/2007
NH-C04-240	3/6/2007	6/21/2007	Blocked	11/29/2007
NH-C04-375	3/6/2007	6/21/2007	Blocked	11/29/2007
NH-C04-560	A	A	A	11/29/2007
NH-C05-320	No H2O to Surface	No H2O to Surface	No H2O to Surface	No H2O to Surface
NH-C05-460	3/14/2007	6/20/2007	9/19/2007	12/4/2007
NH-C06-160	3/8/2007	6/19/2007	9/18/2007	11/29/2007
NH-C06-285	3/13/2007	6/19/2007	9/18/2007	12/4/2007
NH-C06-425	A	A	A	11/29/2007
NH-VPB-01	3/23/2007	6/22/2007	9/20/2007	12/12/2007
NH-VPB-02	3/12/2007	6/21/2007	9/18/2007	12/4/2007
NH-VPB-03	No H2O to Surface	No H2O to Surface	No H2O to Surface	No H2O to Surface
NH-VPB-04	3/8/2007	6/12/2007	9/25/2007	11/28/2007
NH-VPB-05	3/12/2007	6/18/2007	9/17/2007	12/3/2007
NH-VPB-06	3/8/2007	6/20/2007	9/10/2007	No H2O to Surface
NH-VPB-07	3/8/2007	6/14/2007	9/13/2007	11/27/2007
NH-VPB-08	3/12/2007	6/18/2007	9/17/2007	12/3/2007
NH-VPB-09	Inoperable	Inoperable	Inoperable	Inoperable
NH-VPB-10	A	A	A	11/28/2007
NH-VPB-11	No H2O to Surface	No H2O to Surface	No H2O to Surface	No H2O to Surface
NH-VPB-12	No H2O to Surface	No H2O to Surface	No H2O to Surface	No H2O to Surface
NH-VPB-13	No H2O to Surface	No H2O to Surface	No H2O to Surface	No H2O to Surface
NH-VPB-14	No H2O to Surface	No H2O to Surface	No H2O to Surface	No H2O to Surface
PO-C01-195	3/16/2007	6/15/2007	9/14/2007	12/11/2007

TABLE 1-1
Wells Sampled - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PO-C01-354	A	A	A	12/11/2007
PO-C02-053	A	A	A	12/17/2007
PO-C02-205	A	A	A	12/17/2007
PO-C03-182	A	A	A	12/13/2007
PO-C03-235	A	A	A	12/13/2007
PO-VPB-01	A	A	9/20/2007	12/20/2007
PO-VPB-02	3/16/2007	6/15/2007	9/14/2007	12/11/2007
PO-VPB-03	3/15/2007	6/21/2007	9/20/2007	12/13/2007
PO-VPB-04	Inactive	Inactive	Inactive	Inactive
PO-VPB-05	A	A	A	12/20/2007
PO-VPB-06	A	A	A	12/20/2007
PO-VPB-07	3/16/2007	6/15/2007	9/21/2007	12/13/2007
PO-VPB-08	3/16/2007	6/22/2007	Inoperable	Inoperable
PO-VPB-09	Inactive	Inactive	Inactive	Inactive
PO-VPB-10	3/15/2007	6/14/2007	9/20/2007	12/20/2007
PO-VPB-11	Inactive	Inactive	Inactive	Inactive
VD-VPB-01	3/9/2007	6/13/2007	9/11/2007	12/19/2007
VD-VPB-02	3/9/2007	6/13/2007	Blocked	12/19/2007
VD-VPB-03	3/9/2007	6/13/2007	9/11/2007	12/19/2007
VD-VPB-04	Inoperable	Inoperable	Inoperable	Inoperable
VD-VPB-05	3/9/2007	6/13/2007	9/11/2007	No H2O to Surface
VD-VPB-06	3/9/2007	6/13/2007	9/11/2007	12/19/2007
VD-VPB-07	3/9/2007	6/13/2007	9/24/2007	12/19/2007

Notes:
A = Wells included in annual sampling event only
Blocked = Well inaccessible at time of sampling
Inactive = No pump, screened in bedrock
Inoperable = Pump inoperable, pipe separated or other mechanical issues
No H2O to Surface = Pump works, no water to surface



Legend

- ■ Groundwater Treatment Plant
- Approximate Boundaries of Investigation Areas for San Fernando Valley Superfund Sites

N

0 0.625 1.25 2.5
Miles

FIGURE 1-1
Site Location Map
San Fernando Valley Superfund Sites

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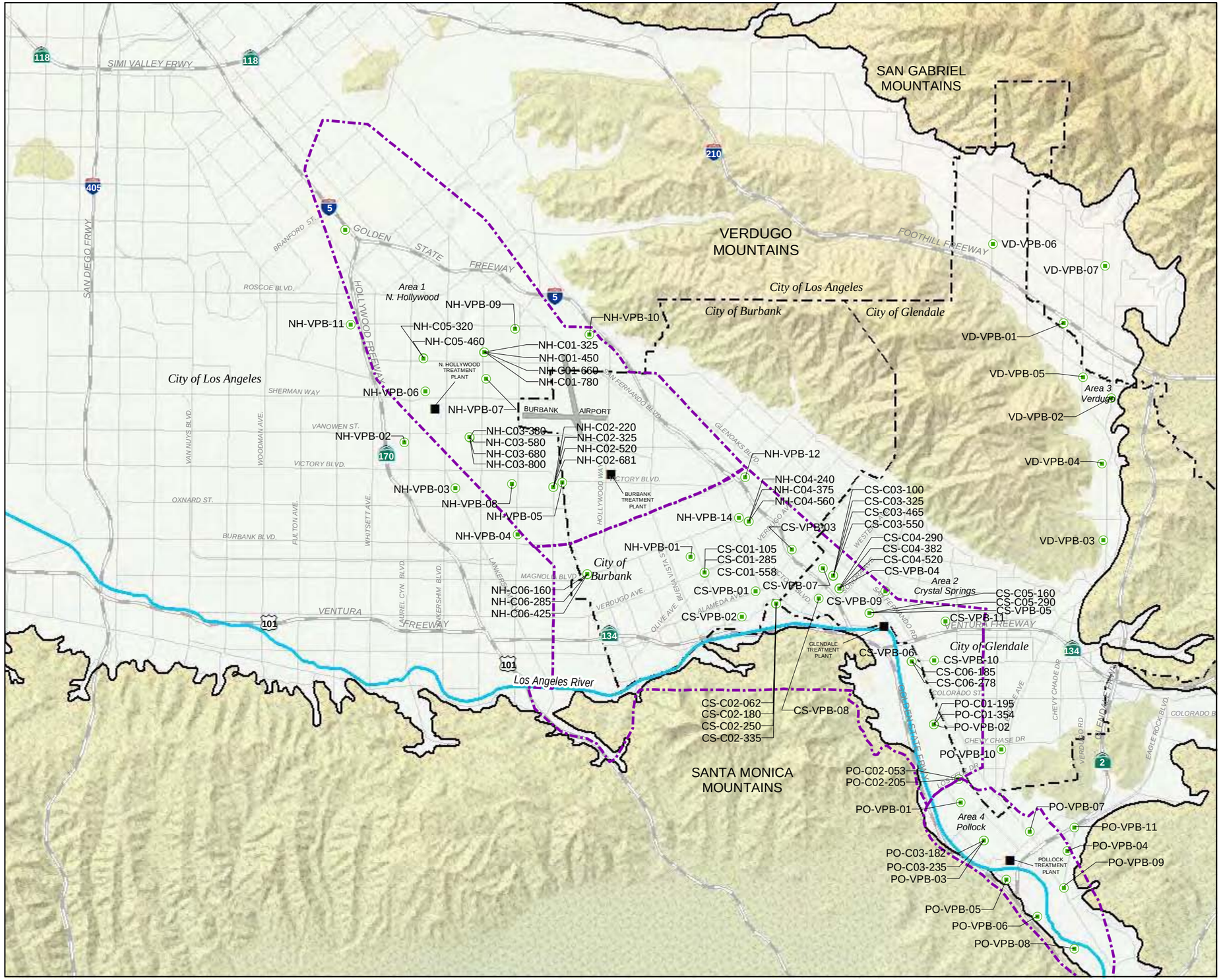
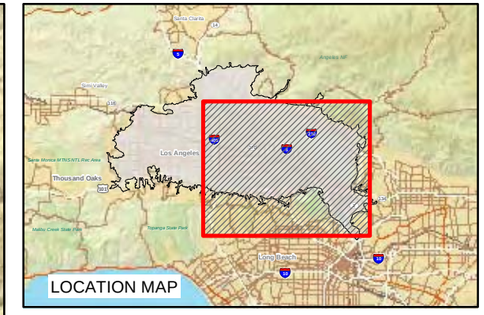
\\ZINFANDEL\PROJ\USENVIRONMENTALPROTE\COMMONFILES\GIS\EPASFV\MAPFILES\2008\2007REPORT\FIG1-1_SITE_LOCATION_MAP.MXD CARCHER 5/26/2009 14:42:41





LEGEND

- Remedial Investigation Monitoring Well
- Treatment Plant
- Municipal Boundary
- Approximate Boundary of Investigation Areas for San Fernando Valley Superfund Sites

FIGURE 1-2
Location of RI Wells In San Fernando Valley Basin
San Fernando Valley Superfund Sites

2.0 2007 Quarterly Sampling Events

2.1 Sampling Activities

Field sampling procedures for each of the 2007 quarterly sampling events followed the revised project Sampling and Analysis Plan (SAP) (E2 Consulting Engineers, 1999a), Quality Assurance Project Plan (QAPP) (E2 Consulting Engineers, 1999b), Addendum No. 2 to the QAPP (E2 Consulting Engineers, 1999c), and Addendum No. 3 to the Revised SAP (E2 Consulting Engineers, 1999d). Water levels were measured in each well immediately after accessing the well and prior to sampling. The measured depth-to-water and calculated groundwater elevation in feet above mean sea level for each well sampled are presented in Table 2-1. During 2007, the following 19 RI monitoring wells were not sampled during one or more of the quarterly events:

CS-C03-465	NH-C04-240	NH-VPB-09	PO-VPB-08
CS-C06-185	NH-C04-375	NH-VPB-11	VD-VPB-02
CS-C06-278	NH-C05-320	NH-VPB-12	VD-VPB-04
CS-VPB-01	NH-VPB-03	NH-VPB-13	VD-VPB-05
NH-C01-450	NH-VPB-06	NH-VPB-14	

Reasons a given well may not have been sampled include inadequate water levels for pump submergence, inoperable pump, removal of the pump, or surface obstructions. The 12 wells that were not sampled due to being inoperable are summarized in Table 3-2 in Section 3; the remaining 7 were not sampled due to surface obstructions preventing access. Three RI monitoring wells (PO-VPB-04, PO-VPB-09 and PO-VPB-11) are screened in bedrock and considered inactive.

Well purging consisted of removing three to five well volumes of water at a flow rate between 2 and 12 gallons per minute using the dedicated electric pumps. During purging, temperature, pH, electrical conductivity, turbidity, dissolved oxygen, and oxygen reduction potential of the groundwater were measured periodically (Table 2-2) to ensure that these parameters stabilized prior to sampling. Following purging, flow rates were decreased to approximately 1 gallon per minute to minimize aeration prior to sampling.

Purge water from monitoring wells where recent VOC concentrations exceeded the MCLs was collected in a stainless-steel vacuum truck certified “clean” and site-dedicated by Haz Mat Transportation, Inc. The purge water was transported to the City of Burbank water treatment facility for disposal. Purge water from monitoring wells where recent VOC concentrations were below the MCLs was diverted into the nearest storm drain.

During all 2007 sampling events, analytical parameters consisted of VOCs (trace and low-medium volatile organic analytes [TVOAs and L/MVOAs]), nitrate/nitrite, and chromium(VI). Additional analytical parameters during the fourth quarter (annual) sampling event included dissolved metals, perchlorate, total alkalinity, total dissolved solids (TDS), total organic carbon (TOC), and major anions (chloride, fluoride, and sulfate). During the first quarterly event of

2007, samples from selected RI monitoring wells were also analyzed for 1,2,3-trichloropropane (1,2,3-TCP). Also during this event, groundwater samples from 12 LMC monitoring wells in the BOU were collected and analyzed for the suite of additional analytical parameters investigated during the annual sampling event, as well as 1,2,3-TCP, 1,4-dioxane, and n-nitrosodimethylamine (NDMA).

In support of the NHOU Focused Feasibility Study, additional samples for the annual analytical suite and the emerging constituents of concern (1,2,3-TCP, 1,4-dioxane, and/or NDMA) were collected at selected NHOU landfill monitoring wells and LADWP-owned northern area monitoring wells during the third quarter of 2007.

Samples collected were preserved according to the methodology presented in the QAPP (E2 Consulting Engineers, 1999b) and Addendum No. 2 to the QAPP (E2 Consulting Engineers, 1999c), stored in coolers packed with ice, and were shipped the day of sampling by overnight carrier to USEPA's Region 9 laboratory and other laboratories designated by the USEPA's Contract Laboratory Program (CLP). Samples collected in support of the NHOU Focused Feasibility Study were preserved in a similar manner; however, the samples for the emerging constituents of concern were picked up by courier for delivery to a local Southern California laboratory assigned through an interagency agreement with the U.S. Army Corps of Engineers.

State and federal MCLs and other water quality goals are listed in Table 2-3. Parameters were analyzed, chain-of-custody procedures followed, and samples documented as outlined in the SAP and QAPP. Copies of field quality assurance/quality control (QA/QC) documentation for the first, second, third, and fourth quarter sampling events are provided in Appendix D.

TCE and PCE data from the first, second, third and fourth quarter 2007 sampling events are presented in Table 2-4. Nitrate data from each 2007 sample event are presented in Table 2-5. Additional VOCs exceeding the MCL at RI monitoring wells are reported in Section 3.0. Results observed during the annual event of 2007 for general water chemistry parameters are presented in Table 2-6; the results of dissolved metals exceeding water quality thresholds are in Table 2-7; and a quarterly comparison of chromium(VI) concentrations is presented in Table 2-8. Appendix E summarizes the complete analytical results for the wells sampled during the first, second, third and fourth quarters.

2.2 Comparison of Analytical Results

Analytical results from each 2007 quarterly sampling event were compared to results from the previous quarterly event as well as historical minimum and maximum values. TCE and PCE concentrations detected at RI monitoring wells during each quarterly sampling event in 2007 are compared to historical maximum and minimum concentrations in Table 2-4. Values in bold typeface indicate samples that contain reported TCE or PCE concentrations greater than the MCL of 5 µg/L. Flags within the "Change" column indicate samples that exhibit a marked change in concentration during the current sampling event compared to the previous sampling event. A "marked change" in TCE and PCE concentration is considered a change in concentration from one of the following categories to another:

- ND
- >ND to 5 µg/L
- >5 to 50 µg/L

- >50 to 100 µg/L
- >100 to 500 µg/L
- >500 to 1,000 µg/L
- >1,000 to 5,000 µg/L
- >5,000 µg/L

For example, if a sample had a reported concentration of 550 µg/L TCE for the fourth quarter 2007, but a reported concentration of 60 µg/L during the previous quarter, a flag of +2 would be present in the "Change" column of that well's row in Table 2-4. If the reported sample concentration had decreased to the next lower category, the flag would read -1. These concentration categories are the same as those used during preparation of basinwide TCE and PCE contaminant concentration maps.

Other VOC concentrations that exceed their respective MCLs at RI monitoring wells during each quarterly sampling event of 2007 are presented in Table 3-1 in Section 3.

Nitrate data for RI monitoring wells sampled during the first, second, third, and fourth quarters of 2007 are provided in Table 2-5. Values in bold typeface indicate samples that contain reported nitrate concentrations greater than the MCL of 45 mg/L (as NO_3). Flags within the "Change" column of Table 2-5 indicate samples that exhibit a marked change in reported nitrate concentration from the current quarter to the previous quarter. A marked change in nitrate concentration (as NO_3) is herein defined as a change in concentration between the following categories:

- ND
- >ND to 20 mg/L
- >20 to 45 mg/L
- >45 to 65 mg/L
- >65 mg/L

Numerical flags in the "Change" column of Table 2-5 follow the same logic as described above: a reported nitrate concentration increase of one category relative to the previous quarter's sample will be flagged +1; a decrease of two categories will be flagged -2.

2.2.1 First Quarter

2.2.1.1 Field Activities

The first quarter 2007 sampling event was designated as a quarterly event. During this event, 50 RI monitoring wells were sampled. Sixty-seven samples were collected and analyzed, including quality control samples (field blanks, laboratory blanks, and field duplicates). The samples were analyzed for VOCs (TVOAs and L/MVOAs), nitrate/nitrite, and chromium(VI) through CLP laboratories. For a selected set of 12 LMC facility monitoring wells in the BOU, nineteen additional samples were collected for the regular annual analytical suite and the emerging constituents of concern: 1,2,3-TCP, 1,4-dioxane, and NDMA. Approximately 11,369 gallons of purge water were collected during the first quarter sampling event and treated at the BOU Treatment Plant.

2.2.1.2 Analytical Results

Reported concentrations of TCE at RI monitoring wells ranged from not detected to 3,000 µg/L during the first quarter. Samples from 35 of the 50 RI monitoring wells contained concentrations of TCE exceeding the MCL of 5 µg/L. Samples from eleven of the wells had TCE concentrations greater or equal to 100 µg/L, including two wells (CS-C03-100 and CS-VPB-04) with a concentration over 1,000 µg/L (1,300 µg/L and 3,000 µg/L, respectively). TCE was not detected in groundwater samples from nine of the monitoring wells, with the remaining six monitoring wells containing concentrations between the contract required quantification limit (CRQL) and the MCL.

Concentrations of PCE during the first quarter sampling event ranged from not detected to 240 µg/L (CS-C02-335). Of the 50 RI monitoring wells sampled, 28 had concentrations exceeding the MCL of 5 µg/L, including six wells (CS-C01-285, CS-C02-335, CS-C03-100, CS-VPB-04, CS-VPB-08 and PO-VPB-02) with concentrations greater than or equal to 100 µg/L (150 µg/L, 240 µg/L, 120 µg/L, 150 µg/L, 230 µg/L and 100 µg/L, respectively). PCE was not detected in groundwater samples from four of the monitoring wells, with the remaining 18 monitoring wells containing concentrations between the CRQL and the MCL.

Nitrate concentrations (as NO_3) ranged from 8.5 milligrams per liter (mg/L) at CS-C05-290 to 80.1 mg/L at PO-VPB-10. Samples from 24 of the 50 RI monitoring wells sampled during the first quarter exceeded the nitrate MCL of 45 mg/L (as NO_3).

Chromium(VI) concentrations exceeding the method detection limit (MDL) of 0.2 µg/L were detected in samples from 42 of the 50 RI monitoring wells during the first quarter of 2007 (Table 2-8). Concentrations above the state MCL for total chromium of 50 µg/L were detected in 5 RI monitoring wells: CS-C03-100 with 81 µg/L, CS-VPB-03 with 63 µg/L, CS-VPB-04 with 280 µg/L, CS-VPB-05 with 370 µg/L, and PO-VPB-02 with 310 µg/L.

2.2.2 Second Quarter

2.2.2.1 Field Activities

The second quarter 2007 sampling event was also designated as a quarterly event. During this event, 50 monitoring wells were sampled. Sixty-four samples were collected and analyzed, including quality control samples. The samples were analyzed for VOCs (TVOAs and L/MVOAs), nitrate/nitrite, and chromium(VI) through CLP laboratories. Approximately 11,096 gallons of purge water were collected during the second quarter sampling event and treated at the BOU Treatment Plant.

2.2.2.2 Analytical Results

Reported concentrations of TCE at RI monitoring wells ranged from not detected (ND) to 3,200 µg/L during the second quarter. Samples from 32 of the 50 RI monitoring wells contained concentrations of TCE exceeding the MCL of 5 µg/L. Twelve of the wells had TCE concentrations greater than 100 µg/L, including two wells (CS-C03-100 and CS-VPB-04) with concentrations over 1,000 µg/L (1,200 µg/L and 3,200 µg/L, respectively). TCE was not detected at thirteen of the monitoring wells, with the remaining five monitoring wells having concentrations between the CRQL and the MCL.

Concentrations of PCE during the second quarter sampling event ranged from not detected to 240 µg/L (CS-VPB-08). Samples from 23 of the 50 RI monitoring wells contained concentrations of PCE exceeding the MCL of 5 µg/L, including five wells (CS-C01-285, CS-C02-335, CS-C03-100, CS-VPB-04 and CS-VPB-08) with concentrations over 100 µg/L (110 µg/L, 200 µg/L, 110 µg/L, 140 µg/L and 240 µg/L, respectively). PCE was not detected at nine monitoring wells and the remaining 18 monitoring wells had PCE concentrations between the CRQL and the MCL.

Nitrate concentrations (as NO_3) ranged from not detected at NH-C04-240 to 93.5 mg/L at NH-C01-325. Samples from 19 of the 50 RI monitoring wells sampled during the second quarter exceeded the nitrate MCL of 45 mg/L (as NO_3).

Chromium(VI) concentrations exceeding the MDL of 0.2 µg/L were detected in 40 of the 50 RI monitoring wells during the second quarter of 2007 (Table 2-8). Concentrations above the state MCL for total chromium, 50 µg/L, were detected in 5 RI monitoring wells: CS-C03-100 with 71 µg/L, CS-VPB-03 with 64 µg/L, CS-VPB-04 with 230 µg/L, CS-VPB-05 with 290 µg/L, and PO-VPB-02 with 310 µg/L.

2.2.3 Third Quarter

2.2.3.1 Field Activities

The third quarter 2007 sampling event was designated as a quarterly event. During this event 47 monitoring wells were sampled. Sixty-six samples were collected and analyzed, including quality control samples. Samples collected were analyzed for VOCs (TVOAs and L/MVOAs), nitrate/nitrite, and chromium(VI) through CLP laboratories. For a selected set of NHOU landfill monitoring wells and LADWP-owned monitoring wells, additional samples were collected for the regular annual analytical suite and the emerging constituents of concern: 1,2,3-TCP, 1,4-dioxane, and NDMA. During the third quarter sampling event, approximately 10,964 gallons of purge water were collected, transported, and treated at the BOU Treatment Plant.

2.2.3.2 Analytical Results

At the 47 RI monitoring wells sampled during the third quarter 2007 sampling event, TCE concentrations ranged from not detected at the CRQL of 2 µg/L to a maximum of 2,800 µg/L at CS-VPB-04. Concentrations of TCE exceeded 5 µg/L at 32 wells, including 12 with concentrations over 100 µg/L. Samples from two of these monitoring wells contained TCE concentrations above 1,000 µg/L (CS-C03-100 with 1,100 µg/L, and CS-VPB-04 with 2,800 µg/L). TCE was not detected at nine of the monitoring wells, with the remaining six monitoring wells having concentrations between the CRQL and the MCL.

Concentrations of PCE ranged from not detected at the CRQL of 2 µg/L to 380 µg/L (at CS-VPB-08). PCE was detected at 23 of the wells exceeding the MCL of 5 µg/L. Four of these wells (CS-C01-285, CS-C02-335, CS-VPB-04 and CS-VPB-08) had PCE concentrations equal to or above 100 µg/L. PCE was not detected at six monitoring wells and the remaining 18 monitoring wells had PCE concentrations between the CRQL and the MCL.

During the third quarter, nitrate (as NO_3) concentrations ranged from 7.6 mg/L at CS-C05-290 to 111.3 mg/L at NH-C01-325. Although nitrate was not detected at NH-C06-160, this result was

disregarded because nitrate concentrations detected at this well have been between 66 and 80 mg/L between years 2004 and 2007. Samples from 19 of the 47 wells sampled during this event contained concentrations of nitrate (as NO_3) greater than the MCL of 45 mg/L.

Chromium(VI) concentrations exceeding the MDL of 0.2 µg/L were observed in 38 RI monitoring wells during the third quarter of 2007 (Table 2-8). Concentrations above the state MCL for total chromium of 50 µg/L were detected in 5 RI monitoring wells: CS-C03-100 with 73 µg/L, CS-VPB-03 with 63 µg/L, CS-VPB-04 with 183 µg/L, CS-VPB-05 with 350 µg/L, and PO-VPB-02 with the highest detected concentration of 380 µg/L.

2.2.4 Fourth Quarter

2.2.4.1 Field Activities

The fourth quarter 2007 sampling event was designated as an annual event, in addition to being the fourth quarterly event. During this event 68 RI monitoring wells were sampled. Ninety samples, including quality control samples, were collected and analyzed. The samples were analyzed for VOCs (TVOAs and L/MVOAs), nitrate/nitrite, dissolved metals, chromium(VI), perchlorate, total alkalinity, TDS, TOC, and major anions through CLP laboratories. During the fourth quarter sampling event, approximately 23,453 gallons of purge water were collected, transported, and disposed of at the BOU Treatment Plant.

2.2.4.2 Analytical Results

TCE concentrations ranged from not detected at the CRQL of 2 µg/L at 22 monitoring wells to 2,000 µg/L at CS-VPB-04. Samples from 30 of the monitoring wells contained concentrations of TCE exceeding 5 µg/L, including 13 monitoring wells with concentrations over 100 µg/L, two of which had concentrations above 1,000 µg/L (CS-C03-100 with 1,100 µg/L and CS-VPB-04 with 2,000 µg/L).

Concentrations of PCE ranged from not detected at the CRQL of 2 µg/L to 250 µg/L at CS-C02-325. Samples from 23 wells contained concentrations of PCE exceeding the MCL of 5 µg/L during the fourth quarter event. Four of these wells (CS-C01-285, CS-C02-335, CS-VPB-04, and CS-VPB-08) had PCE concentrations equal to or exceeding 100 µg/L. The PCE was not detected at 13 monitoring wells and the remaining 32 monitoring wells had PCE concentrations between the CRQL and the MCL.

During the fourth quarter, nitrate (as NO_3) concentrations ranged from not detected at two monitoring wells to 103.7 mg/L at NH-C01-325. Samples from 21 wells contained nitrate (as NO_3) concentrations greater than the MCL of 45 mg/L.

Chromium(VI) concentrations exceeding the MDL of 0.2 µg/L were detected in 48 RI monitoring wells during the fourth quarter of 2007 (Table 2-8). Concentrations above the state MCL for total chromium of 50 µg/L were detected in 5 RI monitoring wells: CS-C03-100 with 92 µg/L, CS-VPB-03 with 60 µg/L, CS-VPB-04 with 160 µg/L, CS-VPB-05 with 320 µg/L, and PO-VPB-02 with the highest detected concentration of 420 µg/L.

TABLE 2-1
Groundwater Elevation - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
CS-C01-105	3/13/2007	91.13	451.26
CS-C01-105	6/22/2007	91.35	451.04
CS-C01-105	9/21/2007	92.84	449.55
CS-C01-105	12/12/2007	92.94	449.45
CS-C01-285	3/13/2007	90.45	452.03
CS-C01-285	6/22/2007	90.82	451.66
CS-C01-285	9/21/2007	93.92	448.56
CS-C01-285	12/12/2007	91.34	451.14
CS-C01-558	NS	NM	NM
CS-C01-558	NS	NM	NM
CS-C01-558	NS	NM	NM
CS-C01-558	11/30/2007	93.09	449.46
CS-C02-062	3/14/2007	39.55	436.20
CS-C02-062	6/19/2007	39.62	436.13
CS-C02-062	9/25/2007	41.15	434.60
CS-C02-062	12/10/2007	40.73	435.02
CS-C02-180	3/14/2007	39.30	436.29
CS-C02-180	6/19/2007	39.33	436.26
CS-C02-180	9/25/2007	41.05	434.54
CS-C02-180	12/10/2007	40.31	435.28
CS-C02-250	3/14/2007	39.00	436.60
CS-C02-250	6/19/2007	39.09	436.51
CS-C02-250	9/25/2007	40.80	434.80
CS-C02-250	12/10/2007	40.09	435.51
CS-C02-335	3/14/2007	38.60	437.26
CS-C02-335	6/19/2007	38.61	437.25
CS-C02-335	9/25/2007	38.52	437.34
CS-C02-335	12/10/2007	37.96	437.90
CS-C03-100	3/13/2007	53.53	433.82
CS-C03-100	6/19/2007	53.60	433.75
CS-C03-100	9/12/2007	54.23	433.12
CS-C03-100	12/10/2007	54.32	433.03
CS-C03-325	NS	NM	NM
CS-C03-325	NS	NM	NM
CS-C03-325	NS	NM	NM
CS-C03-325	12/17/2007	55.49	432.05
CS-C03-465	NS	NM	NM
CS-C03-465	NS	NM	NM
CS-C03-465	NS	NM	NM
CS-C03-465	NS	NM	NM

Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
CS-C03-550	NS	NM	NM
CS-C03-550	NS	NM	NM
CS-C03-550	NS	NM	NM
CS-C03-550	12/17/2007	56.15	431.12
CS-C04-290	3/22/2007	46.52	431.70
CS-C04-290	6/20/2007	46.45	431.77
CS-C04-290	9/12/2007	47.47	430.75
CS-C04-290	12/5/2007	47.50	430.72
CS-C04-382	3/22/2007	46.38	431.38
CS-C04-382	6/20/2007	46.32	431.44
CS-C04-382	9/12/2007	47.90	429.86
CS-C04-382	12/5/2007	47.40	430.36
CS-C04-520	NS	NM	NM
CS-C04-520	NS	NM	NM
CS-C04-520	NS	NM	NM
CS-C04-520	11/30/2007	47.42	430.46
CS-C05-160	3/16/2007	33.32	425.55
CS-C05-160	6/14/2007	33.15	425.72
CS-C05-160	9/14/2007	34.56	424.31
CS-C05-160	12/6/2007	34.25	424.62
CS-C05-290	3/16/2007	33.67	425.64
CS-C05-290	6/14/2007	33.73	425.58
CS-C05-290	9/14/2007	34.63	424.68
CS-C05-290	12/6/2007	34.59	424.72
CS-C06-185	3/22/2007	36.00	419.69
CS-C06-185	6/21/2007	35.99	419.70
CS-C06-185	9/13/2007	36.45	419.24
CS-C06-185	NS	NM	NM
CS-C06-278	NS	NM	NM
CS-C06-278	NS	NM	NM
CS-C06-278	NS	NM	NM
CS-C06-278	NS	NM	NM
CS-VPB-01	3/15/2007	57.11	441.42
CS-VPB-01	6/22/2007	57.33	441.20
CS-VPB-01	9/19/2007	58.77	439.76
CS-VPB-01	NS	NM	NM
CS-VPB-02	NS	NM	NM
CS-VPB-02	NS	NM	NM
CS-VPB-02	NS	NM	NM
CS-VPB-02	11/29/2007	65.89	441.61

TABLE 2-1
Groundwater Elevation - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
CS-VPB-03	3/13/2007	60.25	457.57
CS-VPB-03	6/19/2007	60.05	457.77
CS-VPB-03	9/13/2007	60.31	457.51
CS-VPB-03	12/11/2007	60.53	457.29
CS-VPB-04	3/22/2007	48.45	430.02
CS-VPB-04	6/20/2007	48.29	430.18
CS-VPB-04	9/12/2007	49.45	429.02
CS-VPB-04	12/5/2007	49.55	428.92
CS-VPB-05	3/16/2007	33.97	425.64
CS-VPB-05	6/14/2007	33.99	425.62
CS-VPB-05	9/14/2007	35.17	424.44
CS-VPB-05	12/6/2007	34.59	425.02
CS-VPB-06	3/22/2007	37.25	418.19
CS-VPB-06	6/21/2007	37.22	418.22
CS-VPB-06	9/13/2007	37.68	417.76
CS-VPB-06	12/11/2007	37.75	417.69
CS-VPB-07	3/15/2007	59.30	435.14
CS-VPB-07	6/20/2007	59.35	435.09
CS-VPB-07	9/19/2007	60.17	434.27
CS-VPB-07	12/13/2007	60.36	434.08
CS-VPB-08	3/13/2007	50.60	432.45
CS-VPB-08	6/15/2007	50.50	432.55
CS-VPB-08	9/12/2007	51.56	431.49
CS-VPB-08	12/5/2007	51.60	431.45
CS-VPB-09	3/16/2007	49.91	435.82
CS-VPB-09	6/14/2007	49.82	435.91
CS-VPB-09	9/13/2007	50.52	435.21
CS-VPB-09	12/11/2007	50.79	434.94
CS-VPB-10	3/22/2007	62.00	417.66
CS-VPB-10	6/14/2007	62.08	417.58
CS-VPB-10	9/13/2007	62.47	417.19
CS-VPB-10	12/11/2007	62.73	416.93
CS-VPB-11	3/22/2007	79.68	426.40
CS-VPB-11	6/15/2007	83.53	422.55
CS-VPB-11	9/19/2007	80.82	425.26
CS-VPB-11	12/13/2007	80.68	425.40
NH-C01-325	3/14/2007	287.11	494.32
NH-C01-325	6/20/2007	289.95	491.48
NH-C01-325	9/19/2007	293.57	487.86
NH-C01-325	12/12/2007	294.54	486.89

Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
NH-C01-450	NS	NM	NM
NH-C01-450	NS	NM	NM
NH-C01-450	NS	NM	NM
NH-C01-450	NS	NM	NM
NH-C01-660	NS	NM	NM
NH-C01-660	NS	NM	NM
NH-C01-660	NS	NM	NM
NH-C01-660	11/28/2007	295.39	485.91
NH-C01-780	NS	NM	NM
NH-C01-780	NS	NM	NM
NH-C01-780	NS	NM	NM
NH-C01-780	11/28/2007	296.08	485.39
NH-C02-220	3/12/2007	179.23	477.87
NH-C02-220	6/18/2007	180.20	476.90
NH-C02-220	9/17/2007	182.38	474.72
NH-C02-220	12/3/2007	181.97	475.13
NH-C02-325	3/12/2007	179.32	477.40
NH-C02-325	6/18/2007	181.00	475.72
NH-C02-325	9/17/2007	183.36	473.36
NH-C02-325	12/3/2007	181.27	475.45
NH-C02-520	3/12/2007	178.83	478.21
NH-C02-520	6/18/2007	181.19	475.85
NH-C02-520	9/17/2007	183.94	473.10
NH-C02-520	12/3/2007	180.05	476.99
NH-C02-681	NS	NM	NM
NH-C02-681	NS	NM	NM
NH-C02-681	NS	NM	NM
NH-C02-681	12/3/2007	177.22	479.74
NH-C03-380	NS	NM	NM
NH-C03-380	NS	NM	NM
NH-C03-380	NS	NM	NM
NH-C03-380	11/27/2007	226.68	481.47
NH-C03-580	NS	NM	NM
NH-C03-580	NS	NM	NM
NH-C03-580	NS	NM	NM
NH-C03-580	11/27/2007	226.91	481.79
NH-C03-680	NS	NM	NM
NH-C03-680	NS	NM	NM
NH-C03-680	NS	NM	NM
NH-C03-680	11/27/2007	226.91	481.11

TABLE 2-1
Groundwater Elevation - 2007
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Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
NH-C03-800	NS	NM	NM
NH-C03-800	NS	NM	NM
NH-C03-800	NS	NM	NM
NH-C03-800	11/27/2007	225.21	483.34
NH-C04-240	3/6/2007	91.11	466.77
NH-C04-240	6/21/2007	87.22	470.66
NH-C04-240	NS	NM	NM
NH-C04-240	11/29/2007	95.74	462.14
NH-C04-375	3/6/2007	89.61	468.14
NH-C04-375	6/21/2007	89.59	468.16
NH-C04-375	NS	NM	NM
NH-C04-375	11/29/2007	90.17	467.58
NH-C04-560	NS	NM	NM
NH-C04-560	NS	NM	NM
NH-C04-560	NS	NM	NM
NH-C04-560	11/29/2007	87.76	469.58
NH-C05-320	NS	NM	NM
NH-C05-320	NS	NM	NM
NH-C05-320	NS	NM	NM
NH-C05-320	NS	NM	NM
NH-C05-460	3/14/2007	284.84	487.31
NH-C05-460	6/20/2007	286.97	485.18
NH-C05-460	9/19/2007	291.12	481.03
NH-C05-460	12/4/2007	289.85	482.30
NH-C06-160	3/8/2007	120.20	469.30
NH-C06-160	6/19/2007	120.70	468.80
NH-C06-160	9/18/2007	122.18	467.32
NH-C06-160	11/29/2007	120.77	468.73
NH-C06-285	3/13/2007	122.92	466.32
NH-C06-285	6/19/2007	124.14	465.10
NH-C06-285	9/18/2007	126.42	462.82
NH-C06-285	12/4/2007	122.92	466.32
NH-C06-425	NS	NM	NM
NH-C06-425	NS	NM	NM
NH-C06-425	NS	NM	NM
NH-C06-425	11/29/2007	124.15	465.29
NH-VPB-01	3/23/2007	103.80	455.33
NH-VPB-01	6/22/2007	103.95	455.18
NH-VPB-01	9/20/2007	105.54	453.59
NH-VPB-01	12/12/2007	105.53	453.60

Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
NH-VPB-02	3/12/2007	227.98	482.02
NH-VPB-02	6/21/2007	228.17	481.83
NH-VPB-02	9/18/2007	232.37	477.63
NH-VPB-02	12/4/2007	231.07	478.93
NH-VPB-03	NS	NM	NM
NH-VPB-03	NS	NM	NM
NH-VPB-03	NS	NM	NM
NH-VPB-03	NS	NM	NM
NH-VPB-04	3/8/2007	154.16	477.38
NH-VPB-04	6/12/2007	154.11	477.43
NH-VPB-04	9/25/2007	154.80	476.74
NH-VPB-04	11/28/2007	154.28	477.26
NH-VPB-05	3/12/2007	179.15	477.53
NH-VPB-05	6/18/2007	180.15	476.53
NH-VPB-05	9/17/2007	182.35	474.33
NH-VPB-05	12/3/2007	181.59	475.09
NH-VPB-06	3/8/2007	260.40	485.99
NH-VPB-06	6/20/2007	262.75	483.64
NH-VPB-06	9/10/2007	266.31	480.08
NH-VPB-06	NS	NM	NM
NH-VPB-07	3/8/2007	263.93	491.89
NH-VPB-07	6/14/2007	266.14	489.68
NH-VPB-07	9/13/2007	269.52	486.30
NH-VPB-07	11/27/2007	270.26	485.56
NH-VPB-08	3/12/2007	188.27	480.41
NH-VPB-08	6/18/2007	188.76	479.92
NH-VPB-08	9/17/2007	190.98	477.70
NH-VPB-08	12/3/2007	189.27	479.41
NH-VPB-09	NS	NM	NM
NH-VPB-09	NS	NM	NM
NH-VPB-09	NS	NM	NM
NH-VPB-09	NS	NM	NM
NH-VPB-10	NS	NM	NM
NH-VPB-10	NS	NM	NM
NH-VPB-10	NS	NM	NM
NH-VPB-10	11/28/2007	239.44	523.84
NH-VPB-11	NS	NM	NM
NH-VPB-11	NS	NM	NM
NH-VPB-11	NS	NM	NM
NH-VPB-11	NS	NM	NM

TABLE 2-1
Groundwater Elevation - 2007
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Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
NH-VPB-12	NS	NM	NM
NH-VPB-12	NS	NM	NM
NH-VPB-12	NS	NM	NM
NH-VPB-12	NS	NM	NM
NH-VPB-13	NS	NM	NM
NH-VPB-13	NS	NM	NM
NH-VPB-13	NS	NM	NM
NH-VPB-13	NS	NM	NM
NH-VPB-14	NS	NM	NM
NH-VPB-14	NS	NM	NM
NH-VPB-14	NS	NM	NM
NH-VPB-14	NS	NM	NM
PO-C01-195	3/16/2007	44.50	399.22
PO-C01-195	6/15/2007	44.40	399.32
PO-C01-195	9/14/2007	43.84	399.88
PO-C01-195	12/11/2007	43.94	399.78
PO-C01-354	NS	NM	NM
PO-C01-354	NS	NM	NM
PO-C01-354	NS	NM	NM
PO-C01-354	12/11/2007	42.62	399.68
PO-C02-053	NS	NM	NM
PO-C02-053	NS	NM	NM
PO-C02-053	NS	NM	NM
PO-C02-053	12/17/2007	37.92	388.70
PO-C02-205	NS	NM	NM
PO-C02-205	NS	NM	NM
PO-C02-205	NS	NM	NM
PO-C02-205	12/17/2007	35.46	391.33
PO-C03-182	NS	NM	NM
PO-C03-182	NS	NM	NM
PO-C03-182	NS	NM	NM
PO-C03-182	12/13/2007	59.33	325.82
PO-C03-235	NS	NM	NM
PO-C03-235	NS	NM	NM
PO-C03-235	NS	NM	NM
PO-C03-235	12/13/2007	59.10	325.89
PO-VPB-01	NS	NM	NM
PO-VPB-01	NS	NM	NM
PO-VPB-01	9/20/2007	25.61	385.72
PO-VPB-01	12/20/2007	25.43	385.90

Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
PO-VPB-02	3/16/2007	44.63	398.78
PO-VPB-02	6/15/2007	44.45	398.96
PO-VPB-02	9/14/2007	43.82	399.59
PO-VPB-02	12/11/2007	43.89	399.52
PO-VPB-03	3/15/2007	48.13	337.98
PO-VPB-03	6/21/2007	44.53	341.58
PO-VPB-03	9/20/2007	46.51	339.60
PO-VPB-03	12/13/2007	49.15	336.96
PO-VPB-04	NS	NM	NM
PO-VPB-04	NS	NM	NM
PO-VPB-04	NS	NM	NM
PO-VPB-04	NS	NM	NM
PO-VPB-05	NS	NM	NM
PO-VPB-05	NS	NM	NM
PO-VPB-05	NS	NM	NM
PO-VPB-05	12/20/2007	45.52	321.05
PO-VPB-06	NS	NM	NM
PO-VPB-06	NS	NM	NM
PO-VPB-06	NS	NM	NM
PO-VPB-06	12/20/2007	26.15	320.32
PO-VPB-07	3/16/2007	69.88	324.36
PO-VPB-07	6/15/2007	64.50	329.74
PO-VPB-07	9/21/2007	67.58	326.66
PO-VPB-07	12/13/2007	70.94	323.30
PO-VPB-08	3/16/2007	18.33	312.97
PO-VPB-08	6/22/2007	18.35	312.95
PO-VPB-08	NS	NM	NM
PO-VPB-08	NS	NM	NM
PO-VPB-09	NS	NM	NM
PO-VPB-09	NS	NM	NM
PO-VPB-09	NS	NM	NM
PO-VPB-09	NS	NM	NM
PO-VPB-10	3/15/2007	59.75	413.05
PO-VPB-10	6/14/2007	59.81	412.99
PO-VPB-10	9/20/2007	59.68	413.12
PO-VPB-10	12/20/2007	60.41	412.39
PO-VPB-11	NS	NM	NM
PO-VPB-11	NS	NM	NM
PO-VPB-11	NS	NM	NM
PO-VPB-11	NS	NM	NM

TABLE 2-1
Groundwater Elevation - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
VD-VPB-01	3/9/2007	160.53	1234.83
VD-VPB-01	6/13/2007	163.93	1231.43
VD-VPB-01	9/11/2007	167.60	1227.76
VD-VPB-01	12/19/2007	172.93	1222.43
VD-VPB-02	3/9/2007	86.85	1082.18
VD-VPB-02	6/13/2007	89.20	1079.83
VD-VPB-02	NS	NM	NM
VD-VPB-02	12/19/2007	104.75	1064.28
VD-VPB-03	3/9/2007	14.20	801.93
VD-VPB-03	6/13/2007	14.94	801.19
VD-VPB-03	9/11/2007	14.57	801.56
VD-VPB-03	12/19/2007	14.45	801.68
VD-VPB-04	NS	NM	NM
VD-VPB-04	NS	NM	NM
VD-VPB-04	NS	NM	NM
VD-VPB-04	NS	NM	NM
VD-VPB-05	3/9/2007	113.32	1102.81
VD-VPB-05	6/13/2007	117.23	1098.90
VD-VPB-05	9/11/2007	121.20	1094.93
VD-VPB-05	NS	NM	NM
VD-VPB-06	3/9/2007	58.19	1589.64
VD-VPB-06	6/13/2007	59.22	1588.61
VD-VPB-06	9/11/2007	60.39	1587.44
VD-VPB-06	12/19/2007	61.48	1586.35
VD-VPB-07	3/9/2007	173.29	1671.48
VD-VPB-07	6/13/2007	174.30	1670.47
VD-VPB-07	9/24/2007	178.65	1666.12
VD-VPB-07	12/19/2007	183.38	1661.39

Notes:
ft bgs = Feet below ground surface
ft msl = Feet mean sea level
NM = Not measured
NS = Not sampled

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
CS-C01-105	3/13/2007	45	20.82	6.53	999	2.88	6.79	86
CS-C01-105	6/22/2007	45	19.90	7.52	1250	2.77	9.48	52
CS-C01-105	9/21/2007	46	18.26	7.03	1360	4.2	7.17	193.7
CS-C01-105	12/12/2007	122	17.93	7.43	1369	0	3.96	-220.8
CS-C01-285	3/13/2007	449	19.91	6.74	505	3.21	6.75	87
CS-C01-285	6/22/2007	442	19.04	7.81	658	0	9.85	59
CS-C01-285	9/21/2007	421	17.84	7.26	729	4.79	6.35	179.8
CS-C01-285	12/12/2007	443	16.75	7.59	734	0	7.53	22.4
CS-C01-558	NS	NA	NA	NA	NA	NA	NA	NA
CS-C01-558	NS	NA	NA	NA	NA	NA	NA	NA
CS-C01-558	NS	NA	NA	NA	NA	NA	NA	NA
CS-C01-558	11/30/2007	1021	19.75	7.93	641	0	2.37	-156.7
CS-C02-062	3/14/2007	132	20.10	6.27	959	1.9	5.1	107
CS-C02-062	6/19/2007	67	20.47	7.29	1250	2.23	10.86	46
CS-C02-062	9/25/2007	73	19.67	7.10	1321	203	6.84	66.9
CS-C02-062	12/10/2007	147	20.09	7.02	1654	0.24	3.99	25.4
CS-C02-180	3/14/2007	397	20.30	6.78	901	7.52	2.17	19
CS-C02-180	6/19/2007	304	21.14	8.36	611	0.4	10.9	6
CS-C02-180	9/25/2007	270	19.83	8.01	1194	5.3	2.94	-38.6
CS-C02-180	12/10/2007	344	19.97	7.06	811	0	1.1	-91.3
CS-C02-250	3/14/2007	482	19.89	6.64	554	6.66	5.04	78
CS-C02-250	6/19/2007	422	20.09	7.70	716	0.85	10.83	56
CS-C02-250	9/25/2007	413	18.87	7.53	740	3.26	6.34	102.9
CS-C02-250	12/10/2007	476	19.60	7.58	916	0.7	5.11	84.7
CS-C02-335	3/14/2007	699	19.59	6.57	558	3.96	4.41	77
CS-C02-335	6/19/2007	658	20.21	7.68	730	3.06	11.16	61
CS-C02-335	9/25/2007	583	18.94	7.39	749	1.92	7.18	108.5
CS-C02-335	12/10/2007	767	19.82	7.46	929	1.11	5.57	68.5
CS-C03-100	3/13/2007	135	21.04	6.45	833	1.55	6.7	115
CS-C03-100	6/19/2007	119	22.41	7.48	1120	1.73	9.23	101
CS-C03-100	9/12/2007	210	24.09	7.73	1157	0	4.08	106.1
CS-C03-100	12/10/2007	130	21.28	7.28	1491	0	7.1	75.3

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
CS-C03-325	NS	NA	NA	NA	NA	NA	NA	NA
CS-C03-325	NS	NA	NA	NA	NA	NA	NA	NA
CS-C03-325	NS	NA	NA	NA	NA	NA	NA	NA
CS-C03-325	12/17/2007	1003	19.11	7.98	641	1.56	5.41	-47.7
CS-C03-550	NS	NA	NA	NA	NA	NA	NA	NA
CS-C03-550	NS	NA	NA	NA	NA	NA	NA	NA
CS-C03-550	NS	NA	NA	NA	NA	NA	NA	NA
CS-C03-550	12/17/2007	604	18.96	NA	866	1.69	4.81	-207.5
CS-C04-290	3/22/2007	535	20.00	6.27	412	5.36	7.27	61
CS-C04-290	6/20/2007	529	22.08	7.99	867	4.6	9.88	-129
CS-C04-290	9/12/2007	533	19.11	7.94	460	0.01	7.06	113.8
CS-C04-290	12/5/2007	524	20.56	7.95	545	0	6.54	-89.2
CS-C04-382	3/22/2007	710	20.13	6.31	453	2.03	6.3	44
CS-C04-382	6/20/2007	671	21.28	7.91	573	0	10.43	-41
CS-C04-382	9/12/2007	714	19.87	8.19	521	0.1	6.73	123.9
CS-C04-382	12/5/2007	716	20.62	7.85	603	0	5.01	-263.2
CS-C04-520	NS	NA	NA	NA	NA	NA	NA	NA
CS-C04-520	NS	NA	NA	NA	NA	NA	NA	NA
CS-C04-520	NS	NA	NA	NA	NA	NA	NA	NA
CS-C04-520	11/30/2007	1005	16.89	7.93	903	0	1.38	-110.7
CS-C05-160	3/16/2007	354	21.07	6.35	594	0.93	6.02	97
CS-C05-160	6/14/2007	280	21.09	7.61	747	1.3	10.66	103
CS-C05-160	9/14/2007	304	20.72	7.59	763	0	6.72	10.1
CS-C05-160	12/6/2007	295	19.93	7.49	851	0	6.88	76.8
CS-C05-290	3/16/2007	534	21.45	6.63	514	4.22	6.22	52
CS-C05-290	6/14/2007	557	21.72	7.78	689	5.06	10.68	85
CS-C05-290	9/14/2007	524	21.61	8.07	667	2.31	4.19	171
CS-C05-290	12/6/2007	517	19.24	7.96	729	0	3.66	60.2
CS-C06-185	3/22/2007	348	21.93	6.30	566	5.95	8.07	4
CS-C06-185	6/21/2007	330	22.53	7.60	689	7.3	10.34	39
CS-C06-185	9/13/2007	347	21.44	7.39	639	0	1.92	110.5
CS-C06-185	NS	NA	NA	NA	NA	NA	NA	NA

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
CS-VPB-01	3/15/2007	137	18.95	5.98	918	5.42	5.22	88
CS-VPB-01	6/22/2007	92	19.65	6.63	1200	0.65	9.28	136
CS-VPB-01	9/19/2007	102	19.42	7.12	1144	0.53	11.74	99
CS-VPB-01	NS	NA	NA	NA	NA	NA	NA	NA
CS-VPB-02	NS	NA	NA	NA	NA	NA	NA	NA
CS-VPB-02	NS	NA	NA	NA	NA	NA	NA	NA
CS-VPB-02	NS	NA	NA	NA	NA	NA	NA	NA
CS-VPB-02	11/29/2007	89	20.18	7.05	1428	0.2	5.23	-157.2
CS-VPB-03	3/13/2007	92	18.24	6.40	373	0.35	6.39	145
CS-VPB-03	6/19/2007	112	20.63	7.03	492	1.13	9.57	128
CS-VPB-03	9/13/2007	78	20.63	7.16	442	0	7.58	101.7
CS-VPB-03	12/11/2007	89	18.67	7.76	585	0	4.4	72.8
CS-VPB-04	3/22/2007	NA	20.78	5.88	1330	6.33	6.31	112
CS-VPB-04	6/20/2007	134	21.52	7.24	1330	0	10.34	70
CS-VPB-04	9/12/2007	423	23.07	7.57	1361	0.57	3.76	91.2
CS-VPB-04	12/5/2007	91	20.70	7.11	1452	0	3.05	-45.6
CS-VPB-05	3/16/2007	74	21.33	6.26	867	0.15	3.85	83
CS-VPB-05	6/14/2007	84	21.83	6.59	1120	0.42	10.34	141
CS-VPB-05	9/14/2007	81	20.95	7.35	1144	3.19	4.18	116.6
CS-VPB-05	12/6/2007	79	20.45	7.23	1291	3.46	4.02	37.5
CS-VPB-06	3/22/2007	97	21.66	5.93	911	4.39	8.33	50
CS-VPB-06	6/21/2007	113	22.22	7.29	1140	1.44	10.19	120
CS-VPB-06	9/13/2007	381	22.04	7.19	1059	0	4.08	75.9
CS-VPB-06	12/11/2007	114	20.18	7.21	1433	2.11	6.19	30.5
CS-VPB-07	3/15/2007	89	21.89	6.54	1250	11.4	1.66	4
CS-VPB-07	6/20/2007	84	22.99	7.29	1310	15.6	NA	-39
CS-VPB-07	9/19/2007	92	21.69	7.45	1260	20.4	8.48	134
CS-VPB-07	12/13/2007	94	19.79	7.39	1676	17.4	6.14	82.9
CS-VPB-08	3/13/2007	108	19.84	6.32	928	3.11	6.91	125
CS-VPB-08	6/15/2007	94	21.13	7.18	1240	3.86	10.21	86
CS-VPB-08	9/12/2007	303	20.89	7.32	1127	1.41	4.99	91.8
CS-VPB-08	12/5/2007	125	20.37	7.10	1245	3.33	4.98	-85.1

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
CS-VPB-09	3/16/2007	84	21.05	6.26	1770	49.3	3.43	65
CS-VPB-09	6/14/2007	87	21.55	7.32	1870	77.9	9.65	76
CS-VPB-09	9/13/2007	78	21.38	6.80	1688	22.2	3.95	109.6
CS-VPB-09	12/11/2007	80	19.80	7.15	2284	64	5.16	103.2
CS-VPB-10	3/22/2007	127	20.08	5.76	892	15.9	9.41	116
CS-VPB-10	6/14/2007	116	20.35	7.05	1110	0	9.82	77
CS-VPB-10	9/13/2007	363	20.46	6.72	998	0	9.95	110.9
CS-VPB-10	12/11/2007	102	19.02	7.25	1336	1.42	3.4	73.1
CS-VPB-11	3/22/2007	81	21.43	5.86	894	14.7	8.91	95
CS-VPB-11	6/15/2007	233	21.78	7.13	1140	9.84	9	31
CS-VPB-11	9/19/2007	95	20.34	7.26	1110	20	11.93	152.6
CS-VPB-11	12/13/2007	21	20.13	7.16	1516	91.5	9.78	23.2
NH-C01-325	3/14/2007	105	18.64	6.18	783	1.02	4.77	80
NH-C01-325	6/20/2007	88	20.40	7.02	1120	0	10.68	80
NH-C01-325	9/19/2007	85	19.50	6.77	1046	0.23	11.54	145.2
NH-C01-325	12/12/2007	96	18.55	6.87	1254	0	7.01	109
NH-C01-660	NS	NA	NA	NA	NA	NA	NA	NA
NH-C01-660	NS	NA	NA	NA	NA	NA	NA	NA
NH-C01-660	NS	NA	NA	NA	NA	NA	NA	NA
NH-C01-660	11/28/2007	759	18.21	7.42	649	0	4.62	-187.7
NH-C01-780	NS	NA	NA	NA	NA	NA	NA	NA
NH-C01-780	NS	NA	NA	NA	NA	NA	NA	NA
NH-C01-780	NS	NA	NA	NA	NA	NA	NA	NA
NH-C01-780	11/28/2007	1024	18.57	7.93	598	NA	4.02	-113.6
NH-C02-220	3/12/2007	200	18.97	6.66	656	16.7	8.58	91
NH-C02-220	6/18/2007	133	19.09	7.46	934	3.92	9.95	113
NH-C02-220	9/17/2007	124	18.85	8.00	923	2.51	7.83	124.3
NH-C02-220	12/3/2007	104	18.67	7.58	1001	4.9	6.71	-26.2
NH-C02-325	3/12/2007	324	18.50	6.59	542	7.53	9.91	87
NH-C02-325	6/18/2007	340	18.47	7.12	701	5.63	9.98	109
NH-C02-325	9/17/2007	376	18.12	7.68	696	5.59	5.26	40.6
NH-C02-325	12/3/2007	348	18.26	7.54	856	1.04	3.65	-35.5

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
NH-C02-520	3/12/2007	798	19.57	6.72	482	2.67	7.41	86
NH-C02-520	6/18/2007	729	19.46	6.93	614	4.06	9.38	107
NH-C02-520	9/17/2007	782	18.70	7.90	617	3.05	1.87	162.2
NH-C02-520	12/3/2007	759	19.11	7.78	752	0	4.22	-56.4
NH-C02-681	NS	NA	NA	NA	NA	NA	NA	NA
NH-C02-681	NS	NA	NA	NA	NA	NA	NA	NA
NH-C02-681	NS	NA	NA	NA	NA	NA	NA	NA
NH-C02-681	12/3/2007	1035	20.01	8.03	563	0	1.66	-98.1
NH-C03-380	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-380	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-380	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-380	11/27/2007	336	17.24	7.67	736	0.1	3.03	-118.2
NH-C03-580	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-580	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-580	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-580	11/27/2007	722	18.48	7.79	724	0.49	3.63	-125.3
NH-C03-680	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-680	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-680	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-680	11/27/2007	738	18.92	8.13	520	1.91	4.26	-112.5
NH-C03-800	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-800	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-800	NS	NA	NA	NA	NA	NA	NA	NA
NH-C03-800	11/27/2007	1153	19.95	7.91	501	1.84	3.56	-89.7
NH-C04-240	3/6/2007	369	20.10	7.69	456	1.8	3.88	113
NH-C04-240	6/21/2007	315	22.28	8.42	617	3.12	11.08	-82
NH-C04-240	NS	NA	NA	NA	NA	NA	NA	NA
NH-C04-240	11/29/2007	321	19.80	7.80	742	0	4.72	-143.8
NH-C04-375	3/6/2007	753	20.00	7.72	449	0.27	19.99	112
NH-C04-375	6/21/2007	603	21.68	8.16	628	1.87	11.42	23
NH-C04-375	NS	NA	NA	NA	NA	NA	NA	NA
NH-C04-375	11/29/2007	589	19.65	7.83	710	0	4.42	-173.5

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
NH-C04-560	NS	NA	NA	NA	NA	NA	NA	NA
NH-C04-560	NS	NA	NA	NA	NA	NA	NA	NA
NH-C04-560	NS	NA	NA	NA	NA	NA	NA	NA
NH-C04-560	11/29/2007	939	20.85	8.09	686	0	0.96	-245.1
NH-C05-460	3/14/2007	399	17.45	6.47	472	5.83	4.62	71
NH-C05-460	6/20/2007	392	19.56	7.40	670	0	11.11	127
NH-C05-460	9/19/2007	345	17.87	7.11	623	0	12.76	169.5
NH-C05-460	12/4/2007	406	18.97	7.54	737	0	5.77	16.7
NH-C06-160	3/8/2007	99	20.84	7.46	645	0.41	8.35	106
NH-C06-160	6/19/2007	94	21.98	7.76	876	2.81	9.7	71
NH-C06-160	9/18/2007	115	20.81	8.13	908	1.32	7.91	168.5
NH-C06-160	11/29/2007	115	19.27	7.53	980	0	5.23	-31.9
NH-C06-285	3/13/2007	349	21.29	6.64	691	2.24	7.41	78
NH-C06-285	6/19/2007	360	21.94	7.82	924	1.61	9.72	66
NH-C06-285	9/18/2007	365	20.61	8.08	960	1.65	15.34	158.6
NH-C06-285	12/4/2007	386	22.15	7.68	1113	0	5.52	-90.9
NH-C06-425	NS	NA	NA	NA	NA	NA	NA	NA
NH-C06-425	NS	NA	NA	NA	NA	NA	NA	NA
NH-C06-425	NS	NA	NA	NA	NA	NA	NA	NA
NH-C06-425	11/29/2007	679	20.21	7.71	1423	NA	1.56	8.7
NH-VPB-01	3/23/2007	99	18.25	6.17	860	13.9	7.17	48
NH-VPB-01	6/22/2007	97	20.26	7.73	1130	9.83	10.11	30
NH-VPB-01	9/20/2007	92	18.91	8.21	1107	18.1	14.78	251.3
NH-VPB-01	12/12/2007	90	16.71	7.34	1234	10.76	9.74	98.7
NH-VPB-02	3/12/2007	80	21.48	6.61	688	0.22	9.03	128
NH-VPB-02	6/21/2007	100	21.47	7.38	887	0.88	9.26	123
NH-VPB-02	9/18/2007	72	20.23	7.77	968	8.14	14.83	218.6
NH-VPB-02	12/4/2007	80	19.61	7.70	1038	NA	6.83	23.6
NH-VPB-04	3/8/2007	73	20.30	7.54	653	0.7	7.85	86
NH-VPB-04	6/12/2007	82	21.13	7.52	798	0	14.38	102
NH-VPB-04	9/25/2007	267	21.39	7.85	913	5.67	8.27	26.4
NH-VPB-04	11/28/2007	72	20.36	7.79	952	0	5.53	-120.3

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
NH-VPB-05	3/12/2007	93	19.63	6.55	724	2.51	9.42	97
NH-VPB-05	6/18/2007	100	19.22	7.53	958	1.21	9.64	83
NH-VPB-05	9/17/2007	109	19.08	7.69	956	0	7.92	117.3
NH-VPB-05	12/3/2007	96	19.42	7.43	1220	0	6.45	-22.7
NH-VPB-06	3/8/2007	126	18.28	7.09	694	0.09	9.13	115
NH-VPB-06	6/20/2007	104	18.80	7.09	920	0.23	10.97	108
NH-VPB-06	9/10/2007	116	19.47	7.93	766	0.12	6.86	126.7
NH-VPB-06	NS	NA	NA	NA	NA	NA	NA	NA
NH-VPB-07	3/8/2007	80	18.86	7.01	814	5.57	5.36	113
NH-VPB-07	6/14/2007	67	20.75	7.26	1180	7.5	11.68	164
NH-VPB-07	9/13/2007	117	21.41	7.08	1025	0	4.86	112.4
NH-VPB-07	11/27/2007	76	18.69	7.29	1262	0	3.08	-130
NH-VPB-08	3/12/2007	249	19.36	6.23	847	3.161	5.59	135
NH-VPB-08	6/18/2007	165	19.99	7.63	1060	5.95	9.84	78
NH-VPB-08	9/17/2007	113	18.53	7.25	1011	2.3	4.7	209.6
NH-VPB-08	12/3/2007	200	19.26	7.06	1301	0	3.15	-50.6
NH-VPB-10	NS	NA	NA	NA	NA	NA	NA	NA
NH-VPB-10	NS	NA	NA	NA	NA	NA	NA	NA
NH-VPB-10	NS	NA	NA	NA	NA	NA	NA	NA
NH-VPB-10	11/28/2007	NA	19.80	NA	659	8.07	1.95	-284.7
PO-C01-195	3/16/2007	322	20.61	6.46	563	3.5	3.57	-5
PO-C01-195	6/15/2007	459	21.74	7.28	763	1.51	9.58	-35
PO-C01-195	9/14/2007	340	19.91	7.12	718	2.05	4.5	98.4
PO-C01-195	12/11/2007	348	19.09	7.61	898	0.72	5.97	-11.2
PO-C01-354	NS	NA	NA	NA	NA	NA	NA	NA
PO-C01-354	NS	NA	NA	NA	NA	NA	NA	NA
PO-C01-354	NS	NA	NA	NA	NA	NA	NA	NA
PO-C01-354	12/11/2007	687	18.72	NA	1401	0.37	2.46	-333.6
PO-C02-053	NS	NA	NA	NA	NA	NA	NA	NA
PO-C02-053	NS	NA	NA	NA	NA	NA	NA	NA
PO-C02-053	NS	NA	NA	NA	NA	NA	NA	NA
PO-C02-053	12/17/2007	70	21.45	6.94	1623	1.27	4.08	81.5

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
PO-C02-205	NS	NA	NA	NA	NA	NA	NA	NA
PO-C02-205	NS	NA	NA	NA	NA	NA	NA	NA
PO-C02-205	NS	NA	NA	NA	NA	NA	NA	NA
PO-C02-205	12/17/2007	361	20.64	7.20	1009	2.52	4.12	0.2
PO-C03-182	NS	NA	NA	NA	NA	NA	NA	NA
PO-C03-182	NS	NA	NA	NA	NA	NA	NA	NA
PO-C03-182	NS	NA	NA	NA	NA	NA	NA	NA
PO-C03-182	12/13/2007	323	18.79	7.43	1124	0.33	3.7	65.1
PO-C03-235	NS	NA	NA	NA	NA	NA	NA	NA
PO-C03-235	NS	NA	NA	NA	NA	NA	NA	NA
PO-C03-235	NS	NA	NA	NA	NA	NA	NA	NA
PO-C03-235	12/13/2007	411	19.31	7.40	1181	0.53	2.83	41.7
PO-VPB-01	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-01	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-01	9/20/2007	118	20.65	7.27	946	72	12	230.9
PO-VPB-01	12/20/2007	109	20.07	7.23	1059	50.8	6.68	87.4
PO-VPB-02	3/16/2007	99	20.70	6.24	765	0.46	4.68	48
PO-VPB-02	6/15/2007	108	21.09	6.97	1010	0.82	9.52	NA
PO-VPB-02	9/14/2007	88	19.76	6.72	967	0	7.51	121.4
PO-VPB-02	12/11/2007	99	18.79	7.09	1188	0.3	8.8	-96.7
PO-VPB-03	3/15/2007	118	20.70	6.03	794	1.66	5.46	95
PO-VPB-03	6/21/2007	135	21.81	7.26	1000	1.66	9.53	61
PO-VPB-03	9/20/2007	158	20.47	6.96	1028	0	11.05	138.6
PO-VPB-03	12/13/2007	111	21.08	6.97	1356	0	6.63	24
PO-VPB-05	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-05	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-05	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-05	12/20/2007	107	20.30	7.01	1301	0.72	2.08	50.7
PO-VPB-06	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-06	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-06	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-06	12/20/2007	78	19.98	6.89	1202	0	3.46	60.9

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
PO-VPB-07	3/16/2007	67	22.02	6.03	1740	5.71	5.59	65
PO-VPB-07	6/15/2007	81	22.63	7.03	1850	1.49	9.3	-16
PO-VPB-07	9/21/2007	88	21.44	6.82	1950	5.34	4.9	130.6
PO-VPB-07	12/13/2007	62	21.33	7.00	2269	1.99	6.11	-8.8
PO-VPB-08	3/16/2007	108	21.97	6.36	854	5.68	2.79	64
PO-VPB-08	6/22/2007	100	22.52	7.14	1130	0	10.32	152
PO-VPB-08	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-08	NS	NA	NA	NA	NA	NA	NA	NA
PO-VPB-10	3/15/2007	90	21.92	6.44	675	2.29	4.62	81
PO-VPB-10	6/14/2007	88	22.44	7.34	844	5.34	8.83	69
PO-VPB-10	9/20/2007	93	21.80	7.80	906	7.32	11.28	225.8
PO-VPB-10	12/20/2007	72	21.11	7.57	1068	25	4.37	101.2
VD-VPB-01	3/9/2007	126	19.21	6.81	699	20.3	6.53	103
VD-VPB-01	6/13/2007	178	21.73	6.77	898	39.4	10.61	72
VD-VPB-01	9/11/2007	147	20.60	6.71	910	39.7	5.6	138.7
VD-VPB-01	12/19/2007	96	19.50	6.87	1058	94	0.07	122.2
VD-VPB-02	3/9/2007	135	20.25	6.61	713	5.59	7.73	100
VD-VPB-02	6/13/2007	178	21.66	6.40	924	0.81	10.18	133
VD-VPB-02	NS	NA	NA	NA	NA	NA	NA	NA
VD-VPB-02	12/19/2007	86	19.83	6.43	1123	1.63	0.04	119.8
VD-VPB-03	3/9/2007	140	19.17	6.43	948	2.8	5.77	128
VD-VPB-03	6/13/2007	72	20.33	6.47	1210	10.31	13.32	123
VD-VPB-03	9/11/2007	115	18.87	6.62	1170	3.93	5.71	175.7
VD-VPB-03	12/19/2007	131	18.45	6.60	1427	1.31	0.06	87.6
VD-VPB-05	3/9/2007	35	20.68	6.83	646	55.9	8.13	55
VD-VPB-05	6/13/2007	32	23.36	6.51	802	43	9.21	20
VD-VPB-05	9/11/2007	85	21.54	6.70	849	24.3	5.63	152.5
VD-VPB-05	NS	NA	NA	NA	NA	NA	NA	NA
VD-VPB-06	3/9/2007	91	20.14	6.27	631	2.73	8.49	164
VD-VPB-06	6/13/2007	208	21.70	6.44	763	1.6	11.18	92
VD-VPB-06	9/11/2007	112	21.00	6.43	774	2.57	5.92	129.5
VD-VPB-06	12/19/2007	99	19.14	6.49	951	0	0.07	147.2

TABLE 2-2
Final Field Measurements - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Volume Purged (gal)	Temperature (deg C)	pH (pH units)	Electrical Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
VD-VPB-07	3/9/2007	133	16.96	7.11	551	25.6	10.1	30
VD-VPB-07	6/13/2007	115	18.75	6.93	678	21.1	14	43
VD-VPB-07	9/24/2007	108	16.23	6.52	643	29.4	4.74	43.5
VD-VPB-07	12/19/2007	82	15.98	6.89	740	49	0.06	86.5

Notes:
deg C = Degrees centigrade
gal = Gallons
mg/L = Milligrams per liter
mV = Millivolts
NA = Not Available
NS = Not Sampled
NTU = Nephelometric turbidity units
ORP = Oxygen-Reduction Potential
µS/cm = Microsiemens per centimeter

Comparison of historic pH values in the SFV database with pH values obtained during the fourth quarter indicated three suspect high-pH values, at wells CS-C03-550, PO-C01-354, and NH-VPB-10. These suspect values have been eliminated from this table in order to prevent potentially misleading evaluations of geochemical conditions.

TABLE 2-3
Standards for Selected Organic Compounds, Metals, and Inorganic Compounds
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Analyte	Threshold	Units	Source
Volatile Organics (µg/L)			
1,1,1-Trichloroethane	200	µg/L	EPA and Cal DPH Primary MCL
1,1,2,2-Tetrachloroethane	1	µg/L	Cal DPH Primary MCL
1,1,2-Trichloroethane	5	µg/L	EPA and Cal DPH Primary MCL
1,1-Dichloroethane	5	µg/L	Cal DPH Primary MCL
1,1-Dichloroethene	6	µg/L	Cal DPH Primary MCL
1,2,3-Trichloropropane	0.005	µg/L	Cal DPH NL
1,2-Dibromo-3-chloropropane	0.2	µg/L	Cal DPH Primary MCL
1,2-Dibromoethane (EDB)	0.05	µg/L	EPA and Cal DPH Primary MCL
1,2-Dichloroethane	0.5	µg/L	Cal DPH Primary MCL
1,2-Dichloropropane	5	µg/L	EPA and Cal DPH Primary MCL
1,4-Dioxane	3	µg/L	Cal DPH NL
Acetone	22000	µg/L	EPA Tap Water RSL [1]
Benzene	1	µg/L	Cal DPH Primary MCL
Bromodichloromethane	80	µg/L	EPA and Cal DPH Primary MCL [2]
Bromoform	80	µg/L	EPA and Cal DPH Primary MCL [2]
Bromomethane	8.7	µg/L	EPA Tap Water RSL [1]
Carbon tetrachloride	0.5	µg/L	Cal DPH Primary MCL
Chlorobenzene	70	µg/L	Cal DPH Primary MCL
Chloroethane	21000	µg/L	EPA Tap Water RSL [1]
Chloroform	80	µg/L	EPA and Cal DPH Primary MCL [2]
Chloromethane	1900	µg/L	EPA Tap Water RSL [1]
cis-1,2-Dichloroethene	6	µg/L	Cal DPH Primary MCL
Dibromochloromethane	80	µg/L	EPA and Cal DPH Primary MCL [2]
Ethylbenzene	300	µg/L	Cal DPH Primary MCL
m,p-Xylene	1750	µg/L	Cal DPH Primary MCL
Methyl ethyl ketone	7100	µg/L	EPA Tap Water RSL [1]
Methyl isobutyl ketone	120	µg/L	Cal DPH NL
Methyl tert-butyl ether	13	µg/L	Cal DPH Primary MCL
Methylene chloride	5	µg/L	EPA and Cal DPH Primary MCL
Perchlorate	6	µg/L	Cal DPH Primary MCL
Styrene	100	µg/L	EPA and Cal DPH Primary MCL
Tetrachloroethylene	5	µg/L	EPA and Cal DPH Primary MCL
Toluene	150	µg/L	Cal DPH Primary MCL
trans-1,2-Dichloroethene	10	µg/L	Cal DPH Primary MCL
Trichloroethylene	5	µg/L	EPA and Cal DPH Primary MCL
Vinyl chloride	0.5	µg/L	Cal DPH Primary MCL
Metals (µg/L)			
Aluminum	1000	µg/L	Cal DPH Primary MCL
Antimony	6	µg/L	EPA and Cal DPH Primary MCL
Arsenic	10	µg/L	EPA and Cal DPH Primary MCL
Barium	1000	µg/L	EPA and Cal DPH Primary MCL
Beryllium	4	µg/L	EPA and Cal DPH Primary MCL
Cadmium	5	µg/L	EPA and Cal DPH Primary MCL
Chromium (total)	50	µg/L	Cal DPH Primary MCL
Chromium(VI)	50	µg/L	Cal DPH Primary MCL *
Cobalt	11	µg/L	EPA Tap Water RSL [1]

TABLE 2-3
Standards for Selected Organic Compounds, Metals, and Inorganic Compounds
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Analyte	Threshold	Units	Source
Metals (µg/L)			
Copper	1300	µg/L	EPA and Cal DPH Regulatory Action Level
Iron	300	µg/L	Cal DPH Secondary MCL
Lead	15	µg/L	EPA and Cal DPH Regulatory Action Level
Manganese	50	µg/L	Cal DPH Secondary MCL
Mercury	2	µg/L	EPA and Cal DPH Primary MCL
Nickel	100	µg/L	Cal DPH Primary MCL
Selenium	50	µg/L	EPA and Cal DPH Primary MCL
Silver	100	µg/L	EPA and Cal DPH Primary MCL
Thallium	2	µg/L	EPA and Cal DPH Primary MCL
Vanadium	50	µg/L	EPA and Cal DPH Primary MCL
Zinc	5000	µg/L	Cal DPH Secondary MCL
Inorganics (mg/L)			
Fluoride	2	mg/L	Cal DPH Primary MCL
Nitrate (as NO3)	45	mg/L	EPA and Cal DPH Primary MCL
Nitrite (as Nitrogen)	1	mg/L	EPA and Cal DPH Primary MCL
Sulfate	250	mg/L	Cal DPH Secondary MCL

Notes:
Action Level: Contaminant level at which water treatment or other requirements are triggered.
Cal DPH NL: California Department of Public Health Notification Level based on toxicity to human beings, previously known as "action levels"
Cal DPH Primary MCL: California EPA Department of Public Health Primary Maximum Concentration Level
Cal DPH Secondary MCL: California EPA Department of Public Health Secondary Maximum Concentration Level
EPA Federal MCL: Federal EPA Maximum Contaminant Level
[1] Regional Screening Level (RSL), Tap Water, April 2009
[2] MCL is for Total Trihalomethanes (sum of chloroform, bromodichloromethane, dibromochloromethane, and bromoform)
* Chromium(VI): MCL to be established - currently regulated under the total chromium MCL
Final health-based screening level for drinking water: Federal or Cal EPA Primary MCL or, in order of preference and availability, Cal DPH Action Level, Cal DPH Secondary MCL, and EPA RSL
mg/L = milligrams per liter
µg/L = micrograms per liter

TABLE 2-4
Summary and Comparison of TCE and PCE - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	TCE (µg/L)						PCE (µg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
CS-C01-105	3/13/2007	**28 J**		**400 J**	10/26/1994	**5.8**	3/15/2006	**16 J**		**300**	10/26/1994	4.2	3/15/2006
CS-C01-105	6/22/2007	**41**		**400 J**	10/26/1994	**5.8**	3/15/2006	**23**		**300**	10/26/1994	4.2	3/15/2006
CS-C01-105	9/21/2007	**31**		**400 J**	10/26/1994	**5.8**	3/15/2006	**14**		**300**	10/26/1994	4.2	3/15/2006
CS-C01-105	12/12/2007	**32**		**400 J**	10/26/1994	**5.8**	3/15/2006	**18**		**300**	10/26/1994	4.2	3/15/2006
CS-C01-285	3/13/2007	**190 J**		**530**	12/21/2001	**26**	11/19/1992	**150 J**		**340**	12/21/2001	**42**	11/19/1992
CS-C01-285	6/22/2007	**160 J**		**530**	12/21/2001	**26**	11/19/1992	**110 J**		**340**	12/21/2001	**42**	11/19/1992
CS-C01-285	9/21/2007	**140**		**530**	12/21/2001	**26**	11/19/1992	**100**	-1	**340**	12/21/2001	**42**	11/19/1992
CS-C01-285	12/12/2007	**200**		**530**	12/21/2001	**26**	11/19/1992	**140**	1	**340**	12/21/2001	**42**	11/19/1992
CS-C01-558	NS	NS		0.5 J	12/14/1995	0.08 J	1/7/2003	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C01-558	NS	NS		0.5 J	12/14/1995	0.08 J	1/7/2003	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C01-558	NS	NS		0.5 J	12/14/1995	0.08 J	1/7/2003	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C01-558	11/30/2007	ND (0.5)		0.5 J	12/14/1995	0.08 J	1/7/2003	ND (0.5)		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C02-062	3/14/2007	**22 J**		**200**	11/8/1993	**19**	7/11/2006	**18 J**		**180**	11/8/1993	**11**	3/24/2006
CS-C02-062	6/19/2007	**21 J**		**200**	11/8/1993	**19**	7/11/2006	**14 J**		**180**	11/8/1993	**11**	3/24/2006
CS-C02-062	9/25/2007	**6.3**		**200**	11/8/1993	**19**	7/11/2006	4.9	-1	**180**	11/8/1993	**11**	3/24/2006
CS-C02-062	12/10/2007	**18**		**200**	11/8/1993	**6.3**	9/25/2007	**16**	1	**180**	11/8/1993	4.9	9/25/2007
CS-C02-180	3/14/2007	**11 J**		**280**	11/8/1993	**10**	1/4/2007	4.6 J		**65**	11/8/1993	1.9	3/15/2004
CS-C02-180	6/19/2007	**9.8 J**		**280**	11/8/1993	**10**	1/4/2007	4.1 J		**65**	11/8/1993	1.9	3/15/2004
CS-C02-180	9/25/2007	**13 J**		**280**	11/8/1993	**9.8 J**	6/19/2007	**5.1 J**	1	**65**	11/8/1993	1.9	3/15/2004
CS-C02-180	12/10/2007	**10**		**280**	11/8/1993	**9.8 J**	6/19/2007	4.9	-1	**65**	11/8/1993	1.9	3/15/2004
CS-C02-250	3/14/2007	**150 J**		**320**	11/8/1993	**100**	3/13/2000	**90 J**		**250**	2/22/1994	**29**	3/27/1991
CS-C02-250	6/19/2007	**140 J**		**320**	11/8/1993	**100**	3/13/2000	**82 J**		**250**	2/22/1994	**29**	3/27/1991
CS-C02-250	9/25/2007	**110**		**320**	11/8/1993	**100**	3/13/2000	**60**		**250**	2/22/1994	**29**	3/27/1991
CS-C02-250	12/10/2007	**130**		**320**	11/8/1993	**100**	3/13/2000	**74**		**250**	2/22/1994	**29**	3/27/1991
CS-C02-335	3/14/2007	**310 J**		**420**	3/15/2004	**51**	7/17/1990	**240 J**		**480**	3/15/2004	**14**	7/17/1990
CS-C02-335	6/19/2007	**410**		**420**	3/15/2004	**51**	7/17/1990	**200**		**480**	3/15/2004	**14**	7/17/1990
CS-C02-335	9/25/2007	**250**		**420**	3/15/2004	**51**	7/17/1990	**180**		**480**	3/15/2004	**14**	7/17/1990
CS-C02-335	12/10/2007	**340 E**		**420**	3/15/2004	**51**	7/17/1990	**250 E**		**480**	3/15/2004	**14**	7/17/1990
CS-C03-100	3/13/2007	**1,300 J**		**5,400**	5/9/1995	**30**	5/6/1993	**120 J**	1	**280**	3/23/2005	**7**	5/18/1990
CS-C03-100	6/19/2007	**1,200 J**		**5,400**	5/9/1995	**30**	5/6/1993	**110 J**		**280**	3/23/2005	**7**	5/18/1990
CS-C03-100	9/12/2007	**1,100**		**5,400**	5/9/1995	**30**	5/6/1993	**92**	-1	**280**	3/23/2005	**7**	5/18/1990
CS-C03-100	12/10/2007	**1,100 E**		**5,400**	5/9/1995	**30**	5/6/1993	**95**		**280**	3/23/2005	**7**	5/18/1990
CS-C03-325	NS	NS		4.3	5/18/1990	1	10/20/1994	NS		0.9	12/17/2001	0.27 J	12/12/2006
CS-C03-325	NS	NS		4.3	5/18/1990	1	10/20/1994	NS		0.9	12/17/2001	0.27 J	12/12/2006
CS-C03-325	NS	NS		4.3	5/18/1990	1	10/20/1994	NS		0.9	12/17/2001	0.27 J	12/12/2006
CS-C03-325	12/17/2007	1.5 J	1	4.3	5/18/1990	1	10/20/1994	0.9 J		0.9	12/17/2001	0.27 J	12/12/2006
CS-C03-465	NS	NS		**13**	10/11/2006	0.27 J	9/15/2003	NS		3	12/28/2006	0.7 J	10/9/1998
CS-C03-465	NS	NS		**13**	10/11/2006	0.27 J	9/15/2003	NS		3	12/28/2006	0.7 J	10/9/1998
CS-C03-465	NS	NS		**13**	10/11/2006	0.27 J	9/15/2003	NS		3	12/28/2006	0.7 J	10/9/1998
CS-C03-465	NS	NS		**13**	10/11/2006	0.27 J	9/15/2003	NS		3	12/28/2006	0.7 J	10/9/1998
CS-C03-550	NS	NS		1.5	12/16/2005	0.1 J	12/17/2001	NS		0.86	12/16/2005	0.68	12/12/2006
CS-C03-550	NS	NS		1.5	12/16/2005	0.1 J	12/17/2001	NS		0.86	12/16/2005	0.68	12/12/2006
CS-C03-550	NS	NS		1.5	12/16/2005	0.1 J	12/17/2001	NS		0.86	12/16/2005	0.68	12/12/2006
CS-C03-550	12/17/2007	ND (0.5)	-1	1.5	12/16/2005	0.1 J	12/17/2001	ND (0.5)	-1	0.86	12/16/2005	0.68	12/12/2006
CS-C04-290	3/22/2007	**17 J**		**50**	3/26/1991	3.8	9/16/2003	**11 J**		**15**	6/11/2003	1.8	9/16/2003
CS-C04-290	6/20/2007	ND (0.5)	-2	**50**	3/26/1991	3.8	9/16/2003	ND (0.5)	-2	**15**	6/11/2003	1.8	9/16/2003
CS-C04-290	9/12/2007	**17**	2	**50**	3/26/1991	3.8	9/16/2003	**11**	2	**15**	6/11/2003	1.8	9/16/2003
CS-C04-290	12/5/2007	**18**		**50**	3/26/1991	3.8	9/16/2003	**12**		**15**	6/11/2003	1.8	9/16/2003

TABLE 2-4
Summary and Comparison of TCE and PCE - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	TCE (µg/L)						PCE (µg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
CS-C04-382	3/22/2007	**23 J**		**32**	11/10/1993	**7**	12/12/2000	**21 J**		**23**	10/11/2006	4	12/12/2000
CS-C04-382	6/20/2007	**25**		**32**	11/10/1993	**7**	12/12/2000	**22 J**		**23**	10/11/2006	4	12/12/2000
CS-C04-382	9/12/2007	**24**		**32**	11/10/1993	**7**	12/12/2000	**21**		**23**	10/11/2006	4	12/12/2000
CS-C04-382	12/5/2007	**26**		**32**	11/10/1993	**7**	12/12/2000	**24**		**23**	10/11/2006	4	12/12/2000
CS-C04-520	NS	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C04-520	NS	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C04-520	NS	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006	NS		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C04-520	11/30/2007	ND (0.5)		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006	ND (0.5)		ND (0.5)	12/13/2006	ND (0.5)	12/13/2006
CS-C05-160	3/16/2007	**170 J**		**290**	3/17/2006	**12**	12/17/2004	**14 J**		**15**	10/13/2006	0.57	12/17/2004
CS-C05-160	6/14/2007	**170 J**		**290**	3/17/2006	**12**	12/17/2004	**15 J**		**15**	10/13/2006	0.57	12/17/2004
CS-C05-160	9/14/2007	**160**		**290**	3/17/2006	**12**	12/17/2004	**11**		**15 J**	6/14/2007	0.57	12/17/2004
CS-C05-160	12/6/2007	**160**		**290**	3/17/2006	**12**	12/17/2004	**13**		**15 J**	6/14/2007	0.57	12/17/2004
CS-C05-290	3/16/2007	**15 J**		**66**	11/10/1993	4	9/16/2003	**16 J**		**19**	10/13/2006	2	12/18/2001
CS-C05-290	6/14/2007	**18**		**66**	11/10/1993	4	9/16/2003	**18**		**19**	10/13/2006	2	12/18/2001
CS-C05-290	9/14/2007	**16**		**66**	11/10/1993	4	9/16/2003	**17**		**19**	10/13/2006	2	12/18/2001
CS-C05-290	12/6/2007	**17**		**66**	11/10/1993	4	9/16/2003	**20**		**19**	10/13/2006	2	12/18/2001
CS-C06-185	3/22/2007	**8.4 J**		**130**	9/12/1997	3.5	12/17/2004	**10 J**	1	3.5	6/11/2003	0.5 J	10/7/1998
CS-C06-185	6/21/2007	**7.9 J**		**130**	9/12/1997	3.5	12/17/2004	1.5 J	-1	**10 J**	3/22/2007	0.5 J	10/7/1998
CS-C06-185	9/13/2007	**8.8**		**130**	9/12/1997	3.5	12/17/2004	1.6		**10 J**	3/22/2007	0.5 J	10/7/1998
CS-C06-185	NS	NS		**130**	9/12/1997	3.5	12/17/2004	NS		**10 J**	3/22/2007	0.5 J	10/7/1998
CS-C06-278	NS	NS		**10**	12/12/2000	0.3 J	12/18/1995	NS		1	12/12/2000	1	12/12/2000
CS-C06-278	NS	NS		**10**	12/12/2000	0.3 J	12/18/1995	NS		1	12/12/2000	1	12/12/2000
CS-C06-278	NS	NS		**10**	12/12/2000	0.3 J	12/18/1995	NS		1	12/12/2000	1	12/12/2000
CS-C06-278	NS	NS		**10**	12/12/2000	0.3 J	12/18/1995	NS		1	12/12/2000	1	12/12/2000
CS-VPB-01	3/15/2007	**83 J**		**220**	6/5/2003	**78**	12/28/2006	**83 J**		**400**	3/12/2004	**72**	3/24/2006
CS-VPB-01	6/22/2007	**87**		**220**	6/5/2003	**78**	12/28/2006	**90**		**400**	3/12/2004	**72**	3/24/2006
CS-VPB-01	9/19/2007	**93**		**220**	6/5/2003	**78**	12/28/2006	**94**		**400**	3/12/2004	**72**	3/24/2006
CS-VPB-01	NS	NS		**220**	6/5/2003	**78**	12/28/2006	NS		**400**	3/12/2004	**72**	3/24/2006
CS-VPB-02	NS	NS		**110**	2/11/1993	0.42 J	11/29/2006	NS		**36**	11/8/1993	0.93 J	9/11/2003
CS-VPB-02	NS	NS		**110**	2/11/1993	0.42 J	11/29/2006	NS		**36**	11/8/1993	0.93 J	9/11/2003
CS-VPB-02	NS	NS		**110**	2/11/1993	0.42 J	11/29/2006	NS		**36**	11/8/1993	0.93 J	9/11/2003
CS-VPB-02	11/29/2007	4.8		**110**	2/11/1993	0.42 J	11/29/2006	1.2		**36**	11/8/1993	0.93 J	9/11/2003
CS-VPB-03	3/13/2007	**7.6 J**		**19**	6/14/2005	0.5 J	6/22/1998	0.066 J	1	0.27 J	9/23/2004	0.1 J	9/10/2002
CS-VPB-03	6/19/2007	**6.6**		**19**	6/14/2005	0.5 J	6/22/1998	ND (0.5)	-1	0.27 J	9/23/2004	0.066 J	3/13/2007
CS-VPB-03	9/13/2007	**7.6**		**19**	6/14/2005	0.5 J	6/22/1998	ND (0.5)		0.27 J	9/23/2004	0.066 J	3/13/2007
CS-VPB-03	12/11/2007	**7.9 J**		**19**	6/14/2005	0.5 J	6/22/1998	0.079 J	1	0.27 J	9/23/2004	0.066 J	3/13/2007
CS-VPB-04	3/22/2007	**3,000 J**		**6,300**	9/24/2004	**180**	6/15/1998	**150 J**		**290**	3/18/2004	**17**	10/9/1998
CS-VPB-04	6/20/2007	**3,200 J**		**6,300**	9/24/2004	**180**	6/15/1998	**140 J**		**290**	3/18/2004	**17**	10/9/1998
CS-VPB-04	9/12/2007	**2,800**		**6,300**	9/24/2004	**180**	6/15/1998	**110**		**290**	3/18/2004	**17**	10/9/1998
CS-VPB-04	12/5/2007	**2,000**		**6,300**	9/24/2004	**180**	6/15/1998	**100**	-1	**290**	3/18/2004	**17**	10/9/1998
CS-VPB-05	3/16/2007	**430 J**		**2,100**	7/10/2006	**7**	12/13/1995	**37 J**		**74**	9/23/2004	2	12/13/1995
CS-VPB-05	6/14/2007	**420 J**		**2,100**	7/10/2006	**7**	12/13/1995	**34 J**		**74**	9/23/2004	2	12/13/1995
CS-VPB-05	9/14/2007	**620**	1	**2,100**	7/10/2006	**7**	12/13/1995	**36**		**74**	9/23/2004	2	12/13/1995
CS-VPB-05	12/6/2007	**440**	-1	**2,100**	7/10/2006	**7**	12/13/1995	**36**		**74**	9/23/2004	2	12/13/1995
CS-VPB-06	3/22/2007	**190 J**		**540**	9/19/2001	**20**	9/13/1989	**5.9 J**	1	**14**	10/27/1994	2	9/13/1989
CS-VPB-06	6/21/2007	**190 J**		**540**	9/19/2001	**20**	9/13/1989	**5.5 J**		**14**	10/27/1994	2	9/13/1989
CS-VPB-06	9/13/2007	**300**		**540**	9/19/2001	**20**	9/13/1989	**6**		**14**	10/27/1994	2	9/13/1989
CS-VPB-06	12/11/2007	**160**		**540**	9/19/2001	**20**	9/13/1989	4.9 J	-1	**14**	10/27/1994	2	9/13/1989

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San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	TCE (µg/L)						PCE (µg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
CS-VPB-07	3/15/2007	**480 J**		**12,000**	11/10/1993	**390**	1/3/2007	**12 J**		**79 J**	3/12/1998	**11 J**	1/3/2007
CS-VPB-07	6/20/2007	**620 J**	1	**12,000**	11/10/1993	**390**	1/3/2007	**16 J**		**79 J**	3/12/1998	**11 J**	1/3/2007
CS-VPB-07	9/19/2007	**670 J**		**12,000**	11/10/1993	**390**	1/3/2007	**10 J**		**79 J**	3/12/1998	**11 J**	1/3/2007
CS-VPB-07	12/13/2007	**530**		**12,000**	11/10/1993	**390**	1/3/2007	**12**		**79 J**	3/12/1998	**10 J**	9/19/2007
CS-VPB-08	3/13/2007	**120 J**	1	**180**	2/12/1993	**8**	9/28/1990	**230 J**		**290**	10/12/2006	**5.4**	9/13/1989
CS-VPB-08	6/15/2007	**110 J**		**180**	2/12/1993	**8**	9/28/1990	**240 J**		**290**	10/12/2006	**5.4**	9/13/1989
CS-VPB-08	9/12/2007	**120**		**180**	2/12/1993	**8**	9/28/1990	**380**		**290**	10/12/2006	**5.4**	9/13/1989
CS-VPB-08	12/5/2007	**130**		**180**	2/12/1993	**8**	9/28/1990	**220**		**380**	9/12/2007	**5.4**	9/13/1989
CS-VPB-09	3/16/2007	ND (0.5)		0.5 J	9/23/2004	0.1 J	3/11/2002	**6.6 J**		**17**	3/16/2005	0.9	9/14/1989
CS-VPB-09	6/14/2007	ND (0.5)		0.5 J	9/23/2004	0.1 J	3/11/2002	**6**		**17**	3/16/2005	0.9	9/14/1989
CS-VPB-09	9/13/2007	ND (0.5)		0.5 J	9/23/2004	0.1 J	3/11/2002	**6.5**		**17**	3/16/2005	0.9	9/14/1989
CS-VPB-09	12/11/2007	ND (0.5)		0.5 J	9/23/2004	0.1 J	3/11/2002	4.4	-1	**17**	3/16/2005	0.9	9/14/1989
CS-VPB-10	3/22/2007	**12 J**		**14**	10/12/2006	0.4 J	12/18/2000	**28 J**		**54**	9/19/2001	3	12/18/2000
CS-VPB-10	6/14/2007	**14 J**		**14**	10/12/2006	0.4 J	12/18/2000	**35 J**		**54**	9/19/2001	3	12/18/2000
CS-VPB-10	9/13/2007	**9.2**		**14 J**	6/14/2007	0.4 J	12/18/2000	**23**		**54**	9/19/2001	3	12/18/2000
CS-VPB-10	12/11/2007	**11**		**14 J**	6/14/2007	0.4 J	12/18/2000	**23**		**54**	9/19/2001	3	12/18/2000
CS-VPB-11	3/22/2007	0.48 J		**7.9**	9/15/1989	0.27 J	7/6/2006	**9.9 J**		**45**	9/15/1989	**5.7**	7/6/2006
CS-VPB-11	6/15/2007	0.45 J		**7.9**	9/15/1989	0.27 J	7/6/2006	**9.4 J**		**45**	9/15/1989	**5.7**	7/6/2006
CS-VPB-11	9/19/2007	0.33 J		**7.9**	9/15/1989	0.27 J	7/6/2006	**7.7**		**45**	9/15/1989	**5.7**	7/6/2006
CS-VPB-11	12/13/2007	0.53		**7.9**	9/15/1989	0.27 J	7/6/2006	**11**		**45**	9/15/1989	**5.7**	7/6/2006
NH-C01-325	3/14/2007	3.1 J		**11**	6/5/1997	0.2 J	10/6/1998	**30 J**		**71**	7/24/1996	1	6/7/2000
NH-C01-325	6/20/2007	3 J		**11**	6/5/1997	0.2 J	10/6/1998	**37 J**		**71**	7/24/1996	1	6/7/2000
NH-C01-325	9/19/2007	1.8		**11**	6/5/1997	0.2 J	10/6/1998	**32**		**71**	7/24/1996	1	6/7/2000
NH-C01-325	12/12/2007	2.4		**11**	6/5/1997	0.2 J	10/6/1998	**24**		**71**	7/24/1996	1	6/7/2000
NH-C01-450	NS	NS		1	12/10/2001	0.4 J	6/9/1998	NS		**9**	12/10/2001	1	12/5/1996
NH-C01-450	NS	NS		1	12/10/2001	0.4 J	6/9/1998	NS		**9**	12/10/2001	1	12/5/1996
NH-C01-450	NS	NS		1	12/10/2001	0.4 J	6/9/1998	NS		**9**	12/10/2001	1	12/5/1996
NH-C01-450	NS	NS		1	12/10/2001	0.4 J	6/9/1998	NS		**9**	12/10/2001	1	12/5/1996
NH-C01-660	NS	NS		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	NS		0.09 J	12/10/2002	0.079 J	12/13/2005
NH-C01-660	NS	NS		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	NS		0.09 J	12/10/2002	0.079 J	12/13/2005
NH-C01-660	NS	NS		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	NS		0.09 J	12/10/2002	0.079 J	12/13/2005
NH-C01-660	11/28/2007	ND (0.5)		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	ND (0.5)		0.09 J	12/10/2002	0.079 J	12/13/2005
NH-C01-780	NS	NS		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	NS		0.1 J	12/10/2002	0.092 J	12/13/2005
NH-C01-780	NS	NS		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	NS		0.1 J	12/10/2002	0.092 J	12/13/2005
NH-C01-780	NS	NS		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	NS		0.1 J	12/10/2002	0.092 J	12/13/2005
NH-C01-780	11/28/2007	ND (0.5)		ND (0.5)	12/1/2006	ND (0.5)	12/1/2006	0.1 J	1	0.1 J	12/10/2002	0.092 J	12/13/2005
NH-C02-220	3/12/2007	**11 J**		**30**	11/15/1993	1 J	12/2/1999	0.36 J		1	3/20/1996	0.1 J	10/8/1998
NH-C02-220	6/18/2007	2.5 J	-1	**30**	11/15/1993	1 J	12/2/1999	0.12 J		1	3/20/1996	0.1 J	10/8/1998
NH-C02-220	9/17/2007	3.7		**30**	11/15/1993	1 J	12/2/1999	ND (0.5)	-1	1	3/20/1996	0.1 J	10/8/1998
NH-C02-220	12/3/2007	**9.8**	1	**30**	11/15/1993	1 J	12/2/1999	0.48 J	1	1	3/20/1996	0.1 J	10/8/1998
NH-C02-325	3/12/2007	**14 J**		**39**	3/16/2004	**6**	7/23/1996	4.1 J		**29**	11/15/1993	1.6	12/13/2004
NH-C02-325	6/18/2007	**13 J**		**39**	3/16/2004	**6**	7/23/1996	3.9 J		**29**	11/15/1993	1.6	12/13/2004
NH-C02-325	9/17/2007	**11**		**39**	3/16/2004	**6**	7/23/1996	3.3		**29**	11/15/1993	1.6	12/13/2004
NH-C02-325	12/3/2007	**10**		**39**	3/16/2004	**6**	7/23/1996	3.9		**29**	11/15/1993	1.6	12/13/2004
NH-C02-520	3/12/2007	**9.5 J**		**260**	9/20/2001	1.5	7/20/1990	0.4 J		**8**	11/3/1993	0.41 J	12/21/2006
NH-C02-520	6/18/2007	**5.9 J**		**260**	9/20/2001	1.5	7/20/1990	0.26 J		**8**	11/3/1993	0.4 J	3/12/2007
NH-C02-520	9/17/2007	**5.5**		**260**	9/20/2001	1.5	7/20/1990	0.23 J		**8**	11/3/1993	0.26 J	6/18/2007
NH-C02-520	12/3/2007	4.4	-1	**260**	9/20/2001	1.5	7/20/1990	0.25 J		**8**	11/3/1993	0.23 J	9/17/2007

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		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
NH-C02-681	NS	NS		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006	NS		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006
NH-C02-681	NS	NS		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006	NS		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006
NH-C02-681	NS	NS		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006	NS		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006
NH-C02-681	12/3/2007	ND (0.5)		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006	ND (0.5)		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006
NH-C03-380	NS	NS		**21**	5/1/1992	0.41 J	12/5/2006	NS		**20**	9/22/2004	0.3 J	5/4/1995
NH-C03-380	NS	NS		**21**	5/1/1992	0.41 J	12/5/2006	NS		**20**	9/22/2004	0.3 J	5/4/1995
NH-C03-380	NS	NS		**21**	5/1/1992	0.41 J	12/5/2006	NS		**20**	9/22/2004	0.3 J	5/4/1995
NH-C03-380	11/27/2007	0.54		**21**	5/1/1992	0.41 J	12/5/2006	3.2		**20**	9/22/2004	0.3 J	5/4/1995
NH-C03-580	NS	NS		**49**	10/6/1998	0.46 J	12/5/2006	NS		**35**	6/8/2004	0.2 J	7/23/1996
NH-C03-580	NS	NS		**49**	10/6/1998	0.46 J	12/5/2006	NS		**35**	6/8/2004	0.2 J	7/23/1996
NH-C03-580	NS	NS		**49**	10/6/1998	0.46 J	12/5/2006	NS		**35**	6/8/2004	0.2 J	7/23/1996
NH-C03-580	11/27/2007	**10**	1	**49**	10/6/1998	0.46 J	12/5/2006	**11**	1	**35**	6/8/2004	0.2 J	7/23/1996
NH-C03-680	NS	NS		**7**	12/12/2001	0.36 J	6/8/2005	NS		2	12/3/2003	0.17 J	9/12/2005
NH-C03-680	NS	NS		**7**	12/12/2001	0.36 J	6/8/2005	NS		2	12/3/2003	0.17 J	9/12/2005
NH-C03-680	NS	NS		**7**	12/12/2001	0.36 J	6/8/2005	NS		2	12/3/2003	0.17 J	9/12/2005
NH-C03-680	11/27/2007	0.28 J		**7**	12/12/2001	0.28 J	11/27/2007	0.16 J		2	12/3/2003	0.16 J	11/27/2007
NH-C03-800	NS	NS		2	1/11/2000	0.2 J	12/12/2001	NS		0.6 J	1/11/2000	0.1 J	12/12/2001
NH-C03-800	NS	NS		2	1/11/2000	0.2 J	12/12/2001	NS		0.6 J	1/11/2000	0.1 J	12/12/2001
NH-C03-800	NS	NS		2	1/11/2000	0.2 J	12/12/2001	NS		0.6 J	1/11/2000	0.1 J	12/12/2001
NH-C03-800	11/27/2007	ND (0.5)		2	1/11/2000	0.2 J	12/12/2001	ND (0.5)		0.6 J	1/11/2000	0.1 J	12/12/2001
NH-C04-240	3/6/2007	0.32 J		**9**	9/14/2000	0.22 J	12/6/2006	ND (0.5)	-1	3	9/14/2000	0.1 J	12/11/2002
NH-C04-240	6/21/2007	ND (0.5)	-1	**9**	9/14/2000	0.22 J	12/6/2006	ND (0.5)		3	9/14/2000	0.1 J	12/11/2002
NH-C04-240	NS	NS		**9**	9/14/2000	0.22 J	12/6/2006	NS		3	9/14/2000	0.1 J	12/11/2002
NH-C04-240	11/29/2007	0.29 J	1	**9**	9/14/2000	0.22 J	12/6/2006	0.26 J	1	3	9/14/2000	0.1 J	12/11/2002
NH-C04-375	3/6/2007	ND (0.5)		ND (0.5)	3/6/2007	ND (0.5)	3/6/2007	ND (0.5)		ND (0.5)	3/6/2007	ND (0.5)	3/6/2007
NH-C04-375	6/21/2007	ND (0.5)		ND (0.5)	3/6/2007	ND (0.5)	3/6/2007	ND (0.5)		ND (0.5)	3/6/2007	ND (0.5)	3/6/2007
NH-C04-375	NS	NS		ND (0.5)	6/21/2007	ND (0.5)	6/21/2007	NS		ND (0.5)	6/21/2007	ND (0.5)	6/21/2007
NH-C04-375	11/29/2007	ND (0.5)		ND (0.5)	6/21/2007	ND (0.5)	6/21/2007	ND (0.5)		ND (0.5)	6/21/2007	ND (0.5)	6/21/2007
NH-C04-560	NS	NS		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006	NS		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006
NH-C04-560	NS	NS		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006	NS		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006
NH-C04-560	NS	NS		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006	NS		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006
NH-C04-560	11/29/2007	ND (0.5)		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006	ND (0.5)		ND (0.5)	12/6/2006	ND (0.5)	12/6/2006
NH-C05-320	NS	NS		1	6/22/1998	1	6/22/1998	NS		ND (0.5)	12/4/2000	ND (0.5)	12/4/2000
NH-C05-320	NS	NS		1	6/22/1998	1	6/22/1998	NS		ND (0.5)	12/4/2000	ND (0.5)	12/4/2000
NH-C05-320	NS	NS		1	6/22/1998	1	6/22/1998	NS		ND (0.5)	12/4/2000	ND (0.5)	12/4/2000
NH-C05-320	NS	NS		1	6/22/1998	1	6/22/1998	NS		ND (0.5)	12/4/2000	ND (0.5)	12/4/2000
NH-C05-460	3/14/2007	**81 J**		**110**	3/23/2006	**10**	1/12/2000	2 J		**15**	12/2/2003	1.1	3/23/2006
NH-C05-460	6/20/2007	**120 J**	1	**110**	3/23/2006	**10**	1/12/2000	1.9 J		**15**	12/2/2003	1.1	3/23/2006
NH-C05-460	9/19/2007	**100**	-1	**120 J**	6/20/2007	**10**	1/12/2000	1.5		**15**	12/2/2003	1.1	3/23/2006
NH-C05-460	12/4/2007	**110**	1	**120 J**	6/20/2007	**10**	1/12/2000	1.6 J		**15**	12/2/2003	1.1	3/23/2006
NH-C06-160	3/8/2007	0.35 J		**240**	1/25/1995	0.3 J	12/11/2006	0.83 J		1.1	9/21/2001	0.2 J	10/31/1994
NH-C06-160	6/19/2007	0.26 J		**240**	1/25/1995	0.3 J	12/11/2006	0.66 J		1.1	9/21/2001	0.2 J	10/31/1994
NH-C06-160	9/18/2007	0.37 J		**240**	1/25/1995	0.26 J	6/19/2007	0.74		1.1	9/21/2001	0.2 J	10/31/1994
NH-C06-160	11/29/2007	0.24 J		**240**	1/25/1995	0.26 J	6/19/2007	0.87		1.1	9/21/2001	0.2 J	10/31/1994
NH-C06-285	3/13/2007	**68 J**	1	**75**	8/31/2004	2	12/7/1995	**5.6 J**	1	**5.2**	10/10/2006	1	12/6/2000
NH-C06-285	6/19/2007	**59 J**		**75**	8/31/2004	2	12/7/1995	4.3 J	-1	**5.6 J**	3/13/2007	1	12/6/2000
NH-C06-285	9/18/2007	**67**		**75**	8/31/2004	2	12/7/1995	4.1 J		**5.6 J**	3/13/2007	1	12/6/2000
NH-C06-285	12/4/2007	**78**		**75**	8/31/2004	2	12/7/1995	**6**	1	**5.6 J**	3/13/2007	1	12/6/2000

TABLE 2-4
Summary and Comparison of TCE and PCE - 2007
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Well ID	Sample Date	TCE (µg/L)						PCE (µg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
NH-C06-425	NS	NS		4	12/12/2002	4	12/12/2002	NS		0.9	12/12/2002	0.9	12/12/2002
NH-C06-425	NS	NS		4	12/12/2002	4	12/12/2002	NS		0.9	12/12/2002	0.9	12/12/2002
NH-C06-425	NS	NS		4	12/12/2002	4	12/12/2002	NS		0.9	12/12/2002	0.9	12/12/2002
NH-C06-425	11/29/2007	ND (0.5)		4	12/12/2002	4	12/12/2002	ND (0.5)		0.9	12/12/2002	0.9	12/12/2002
NH-VPB-01	3/23/2007	**18 J**		**510**	11/9/1993	**21**	12/27/2006	**12 J**		**350**	11/9/1993	**12**	12/27/2006
NH-VPB-01	6/22/2007	**21 J**		**510**	11/9/1993	**18 J**	3/23/2007	**11 J**		**350**	11/9/1993	**12 J**	3/23/2007
NH-VPB-01	9/20/2007	**12**		**510**	11/9/1993	**18 J**	3/23/2007	**6.2**		**350**	11/9/1993	**11 J**	6/22/2007
NH-VPB-01	12/12/2007	**20**		**510**	11/9/1993	**12**	9/20/2007	**11**		**350**	11/9/1993	**6.2**	9/20/2007
NH-VPB-02	3/12/2007	**5.1 J**	1	3.8	12/26/2006	0.2 J	12/13/2001	**5.9 J**		**7.5**	10/3/2006	0.3 J	10/19/1994
NH-VPB-02	6/21/2007	**12 J**		**5.1 J**	3/12/2007	0.2 J	12/13/2001	**6.9 J**		**7.5**	10/3/2006	0.3 J	10/19/1994
NH-VPB-02	9/18/2007	3.8	-1	**12 J**	6/21/2007	0.2 J	12/13/2001	**15**		**7.5**	10/3/2006	0.3 J	10/19/1994
NH-VPB-02	12/4/2007	4		**12 J**	6/21/2007	0.2 J	12/13/2001	**5.4**		**15**	9/18/2007	0.3 J	10/19/1994
NH-VPB-03	NS	NS		ND (0.5)	6/3/2003	ND (0.5)	6/3/2003	NS		0.3 J	3/13/2001	0.1 J	3/19/2003
NH-VPB-03	NS	NS		ND (0.5)	6/3/2003	ND (0.5)	6/3/2003	NS		0.3 J	3/13/2001	0.1 J	3/19/2003
NH-VPB-03	NS	NS		ND (0.5)	6/3/2003	ND (0.5)	6/3/2003	NS		0.3 J	3/13/2001	0.1 J	3/19/2003
NH-VPB-03	NS	NS		ND (0.5)	6/3/2003	ND (0.5)	6/3/2003	NS		0.3 J	3/13/2001	0.1 J	3/19/2003
NH-VPB-04	3/8/2007	ND (0.5)		ND (0.5)	11/30/2006	ND (0.5)	11/30/2006	0.093 J	1	0.11 J	10/6/2006	0.11 J	10/6/2006
NH-VPB-04	6/12/2007	ND (5)		ND (5)	6/12/2007	ND (5)	6/12/2007	ND (5)	-1	0.11 J	10/6/2006	0.093 J	3/8/2007
NH-VPB-04	9/25/2007	ND (0.5)		ND (5)	6/12/2007	ND (5)	6/12/2007	ND (0.5)		0.11 J	10/6/2006	0.093 J	3/8/2007
NH-VPB-04	11/28/2007	ND (0.5)		ND (0.5)	9/25/2007	ND (0.5)	9/25/2007	0.085 J	1	0.11 J	10/6/2006	0.093 J	3/8/2007
NH-VPB-05	3/12/2007	**32 J**		**58**	5/13/1994	0.2 J	12/7/2000	0.74 J		**20**	5/5/1995	0.17 J	9/16/2005
NH-VPB-05	6/18/2007	**51 J**	1	**58**	5/13/1994	0.2 J	12/7/2000	1.3 J		**20**	5/5/1995	0.17 J	9/16/2005
NH-VPB-05	9/17/2007	**46**	-1	**58**	5/13/1994	0.2 J	12/7/2000	0.86		**20**	5/5/1995	0.17 J	9/16/2005
NH-VPB-05	12/3/2007	**36**		**58**	5/13/1994	0.2 J	12/7/2000	1.1		**20**	5/5/1995	0.17 J	9/16/2005
NH-VPB-06	3/8/2007	**17 J**	1	**66**	12/18/1996	1	3/20/1996	3.1 J		4	12/18/1996	0.3 J	3/20/1996
NH-VPB-06	6/20/2007	**17 J**		**66**	12/18/1996	1	3/20/1996	2.8 J		4	12/18/1996	0.3 J	3/20/1996
NH-VPB-06	9/10/2007	**46**		**66**	12/18/1996	1	3/20/1996	3.7		4	12/18/1996	0.3 J	3/20/1996
NH-VPB-06	NS	NS		**66**	12/18/1996	1	3/20/1996	NS		4	12/18/1996	0.3 J	3/20/1996
NH-VPB-07	3/8/2007	0.15 J		**34**	11/11/1992	0.21 J	10/5/2006	2 J		**54**	11/11/1992	1.7	12/11/2006
NH-VPB-07	6/14/2007	ND (0.5)	-1	**34**	11/11/1992	0.15 J	3/8/2007	1.7		**54**	11/11/1992	1.7	12/11/2006
NH-VPB-07	9/13/2007	ND (0.5)		**34**	11/11/1992	0.15 J	3/8/2007	1.7		**54**	11/11/1992	1.7	6/14/2007
NH-VPB-07	11/27/2007	0.057 J	1	**34**	11/11/1992	0.057 J	11/27/2007	1.7		**54**	11/11/1992	1.7	11/27/2007
NH-VPB-08	3/12/2007	**7 J**	1	**19**	3/10/2000	3	8/12/1993	2.4 J		4	9/17/1997	0.9 J	3/20/1996
NH-VPB-08	6/18/2007	**10 J**		**19**	3/10/2000	3	8/12/1993	2.7 J		4	9/17/1997	0.9 J	3/20/1996
NH-VPB-08	9/17/2007	**12**		**19**	3/10/2000	3	8/12/1993	2.9		4	9/17/1997	0.9 J	3/20/1996
NH-VPB-08	12/3/2007	**11**		**19**	3/10/2000	3	8/12/1993	3.1		4	9/17/1997	0.9 J	3/20/1996
NH-VPB-09	NS	NS		1	12/7/2000	0.3 J	10/5/1998	NS		5	9/14/2000	2	6/6/2000
NH-VPB-09	NS	NS		1	12/7/2000	0.3 J	10/5/1998	NS		5	9/14/2000	2	6/6/2000
NH-VPB-09	NS	NS		1	12/7/2000	0.3 J	10/5/1998	NS		5	9/14/2000	2	6/6/2000
NH-VPB-09	NS	NS		1	12/7/2000	0.3 J	10/5/1998	NS		5	9/14/2000	2	6/6/2000
NH-VPB-10	NS	NS		1.3	12/22/2005	0.9 J	6/22/1998	NS		ND (0.5)	12/22/2005	ND (0.5)	12/22/2005
NH-VPB-10	NS	NS		1.3	12/22/2005	0.9 J	6/22/1998	NS		ND (0.5)	12/22/2005	ND (0.5)	12/22/2005
NH-VPB-10	NS	NS		1.3	12/22/2005	0.9 J	6/22/1998	NS		ND (0.5)	12/22/2005	ND (0.5)	12/22/2005
NH-VPB-10	11/28/2007	0.73		1.3	12/22/2005	0.9 J	6/22/1998	0.074 J	1	ND (0.5)	12/22/2005	ND (0.5)	12/22/2005
NH-VPB-11	NS	NS		ND (1)	6/22/1998	ND (1)	6/22/1998	NS		0.3 J	12/4/1995	0.2 J	10/19/1994
NH-VPB-11	NS	NS		ND (1)	6/22/1998	ND (1)	6/22/1998	NS		0.3 J	12/4/1995	0.2 J	10/19/1994
NH-VPB-11	NS	NS		ND (1)	6/22/1998	ND (1)	6/22/1998	NS		0.3 J	12/4/1995	0.2 J	10/19/1994
NH-VPB-11	NS	NS		ND (1)	6/22/1998	ND (1)	6/22/1998	NS		0.3 J	12/4/1995	0.2 J	10/19/1994

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Well ID	Sample Date	TCE (µg/L)						PCE (µg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
NH-VPB-12	NS	NS		0.3 J	12/18/2000	0.3 J	12/18/2000	NS		ND (0.5)	12/13/2001	ND (0.5)	12/13/2001
NH-VPB-12	NS	NS		0.3 J	12/18/2000	0.3 J	12/18/2000	NS		ND (0.5)	12/13/2001	ND (0.5)	12/13/2001
NH-VPB-12	NS	NS		0.3 J	12/18/2000	0.3 J	12/18/2000	NS		ND (0.5)	12/13/2001	ND (0.5)	12/13/2001
NH-VPB-12	NS	NS		0.3 J	12/18/2000	0.3 J	12/18/2000	NS		ND (0.5)	12/13/2001	ND (0.5)	12/13/2001
NH-VPB-13	NS	NS		3	11/11/1992	0.3 J	12/4/1995	NS		0.2 J	10/19/1994	0.2 J	10/19/1994
NH-VPB-13	NS	NS		3	11/11/1992	0.3 J	12/4/1995	NS		0.2 J	10/19/1994	0.2 J	10/19/1994
NH-VPB-13	NS	NS		3	11/11/1992	0.3 J	12/4/1995	NS		0.2 J	10/19/1994	0.2 J	10/19/1994
NH-VPB-13	NS	NS		3	11/11/1992	0.3 J	12/4/1995	NS		0.2 J	10/19/1994	0.2 J	10/19/1994
NH-VPB-14	NS	NS		**1,400**	8/18/1993	**99**	3/15/2000	NS		**250**	3/11/1998	1.4	7/17/1989
NH-VPB-14	NS	NS		**1,400**	8/18/1993	**99**	3/15/2000	NS		**250**	3/11/1998	1.4	7/17/1989
NH-VPB-14	NS	NS		**1,400**	8/18/1993	**99**	3/15/2000	NS		**250**	3/11/1998	1.4	7/17/1989
NH-VPB-14	NS	NS		**1,400**	8/18/1993	**99**	3/15/2000	NS		**250**	3/11/1998	1.4	7/17/1989
PO-C01-195	3/16/2007	**12 J**		**16**	10/13/2006	0.9 J	12/9/1999	0.7 J		1.2	12/20/2004	0.2 J	10/7/1998
PO-C01-195	6/15/2007	**13**		**16**	10/13/2006	0.9 J	12/9/1999	0.76		1.2	12/20/2004	0.2 J	10/7/1998
PO-C01-195	9/14/2007	**8.8**		**16**	10/13/2006	0.9 J	12/9/1999	0.76		1.2	12/20/2004	0.2 J	10/7/1998
PO-C01-195	12/11/2007	**7.7**		**16**	10/13/2006	0.9 J	12/9/1999	0.75		1.2	12/20/2004	0.2 J	10/7/1998
PO-C01-354	NS	NS		0.06 J	1/7/2003	0.06 J	1/7/2003	NS		0.04 J	1/7/2003	0.04 J	1/7/2003
PO-C01-354	NS	NS		0.06 J	1/7/2003	0.06 J	1/7/2003	NS		0.04 J	1/7/2003	0.04 J	1/7/2003
PO-C01-354	NS	NS		0.06 J	1/7/2003	0.06 J	1/7/2003	NS		0.04 J	1/7/2003	0.04 J	1/7/2003
PO-C01-354	12/11/2007	ND (0.5)		0.06 J	1/7/2003	0.06 J	1/7/2003	ND (0.5)		0.04 J	1/7/2003	0.04 J	1/7/2003
PO-C02-053	NS	NS		**33**	11/11/1993	0.42 J	3/16/2005	NS		4	11/11/1993	0.57	3/16/2005
PO-C02-053	NS	NS		**33**	11/11/1993	0.42 J	3/16/2005	NS		4	11/11/1993	0.57	3/16/2005
PO-C02-053	NS	NS		**33**	11/11/1993	0.42 J	3/16/2005	NS		4	11/11/1993	0.57	3/16/2005
PO-C02-053	12/17/2007	1.6 J		**33**	11/11/1993	0.42 J	3/16/2005	1.8 J		4	11/11/1993	0.57	3/16/2005
PO-C02-205	NS	NS		**32**	4/1/1991	0.14 J	12/18/2006	NS		3	4/1/1991	0.3 J	12/17/1996
PO-C02-205	NS	NS		**32**	4/1/1991	0.14 J	12/18/2006	NS		3	4/1/1991	0.3 J	12/17/1996
PO-C02-205	NS	NS		**32**	4/1/1991	0.14 J	12/18/2006	NS		3	4/1/1991	0.3 J	12/17/1996
PO-C02-205	12/17/2007	ND (0.5)	-1	**32**	4/1/1991	0.14 J	12/18/2006	0.54		3	4/1/1991	0.3 J	12/17/1996
PO-C03-182	NS	NS		**40**	10/28/1994	2.2	12/8/2004	NS		**21**	10/28/1994	0.99	6/10/2005
PO-C03-182	NS	NS		**40**	10/28/1994	2.2	12/8/2004	NS		**21**	10/28/1994	0.99	6/10/2005
PO-C03-182	NS	NS		**40**	10/28/1994	2.2	12/8/2004	NS		**21**	10/28/1994	0.99	6/10/2005
PO-C03-182	12/13/2007	4.1		**40**	10/28/1994	2.2	12/8/2004	1.8		**21**	10/28/1994	0.99	6/10/2005
PO-C03-235	NS	NS		**12**	12/15/1997	1.7	12/15/2006	NS		2	12/15/1997	0.84	12/8/2004
PO-C03-235	NS	NS		**12**	12/15/1997	1.7	12/15/2006	NS		2	12/15/1997	0.84	12/8/2004
PO-C03-235	NS	NS		**12**	12/15/1997	1.7	12/15/2006	NS		2	12/15/1997	0.84	12/8/2004
PO-C03-235	12/13/2007	1.9		**12**	12/15/1997	1.7	12/15/2006	1.5		2	12/15/1997	0.84	12/8/2004
PO-VPB-01	NS	NS		**27**	11/9/1989	0.8	9/17/2003	NS		5	11/9/1989	0.33 J	9/17/2003
PO-VPB-01	NS	NS		**27**	11/9/1989	0.8	9/17/2003	NS		5	11/9/1989	0.33 J	9/17/2003
PO-VPB-01	9/20/2007	1.7		**27**	11/9/1989	0.8	9/17/2003	0.93		5	11/9/1989	0.33 J	9/17/2003
PO-VPB-01	12/20/2007	1.2		**27**	11/9/1989	0.8	9/17/2003	0.82		5	11/9/1989	0.33 J	9/17/2003
PO-VPB-02	3/16/2007	**170 J**		**900**	11/11/1993	**97**	12/9/1999	**100 J**		**210**	3/17/2004	**22**	12/9/1999
PO-VPB-02	6/15/2007	**200 J**		**900**	11/11/1993	**97**	12/9/1999	**91 J**		**210**	3/17/2004	**22**	12/9/1999
PO-VPB-02	9/14/2007	**160**		**900**	11/11/1993	**97**	12/9/1999	**67**		**210**	3/17/2004	**22**	12/9/1999
PO-VPB-02	12/11/2007	**160**		**900**	11/11/1993	**97**	12/9/1999	**72**		**210**	3/17/2004	**22**	12/9/1999
PO-VPB-03	3/15/2007	**11 J**		**77**	11/14/1989	**8**	3/24/2005	**6.5 J**		**46**	11/14/1989	2	10/28/1994
PO-VPB-03	6/21/2007	4.2 J	-1	**77**	11/14/1989	**8**	3/24/2005	**6.4 J**		**46**	11/14/1989	2	10/28/1994
PO-VPB-03	9/20/2007	**8.7**	1	**77**	11/14/1989	4.2 J	6/21/2007	5	-1	**46**	11/14/1989	2	10/28/1994
PO-VPB-03	12/13/2007	**12**		**77**	11/14/1989	4.2 J	6/21/2007	**7.4**	1	**46**	11/14/1989	2	10/28/1994

TABLE 2-4
Summary and Comparison of TCE and PCE - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	TCE (µg/L)						PCE (µg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
PO-VPB-04	NS	NS		ND	9/20/1990	ND	9/20/1990	NS		ND	9/20/1990	ND	9/20/1990
PO-VPB-04	NS	NS		ND	9/20/1990	ND	9/20/1990	NS		ND	9/20/1990	ND	9/20/1990
PO-VPB-04	NS	NS		ND	9/20/1990	ND	9/20/1990	NS		ND	9/20/1990	ND	9/20/1990
PO-VPB-04	NS	NS		ND	9/20/1990	ND	9/20/1990	NS		ND	9/20/1990	ND	9/20/1990
PO-VPB-05	NS	NS		**10**	11/11/1993	0.1 J	3/27/2003	NS		0.7 J	12/15/1997	0.1 J	12/20/2005
PO-VPB-05	NS	NS		**10**	11/11/1993	0.1 J	3/27/2003	NS		0.7 J	12/15/1997	0.1 J	12/20/2005
PO-VPB-05	NS	NS		**10**	11/11/1993	0.1 J	3/27/2003	NS		0.7 J	12/15/1997	0.1 J	12/20/2005
PO-VPB-05	12/20/2007	ND (0.5)		**10**	11/11/1993	0.1 J	3/27/2003	ND (0.5)		0.7 J	12/15/1997	0.1 J	12/20/2005
PO-VPB-06	NS	NS		3	11/4/1993	0.14 J	12/19/2005	NS		0.4 J	12/15/2000	0.1 J	12/19/2001
PO-VPB-06	NS	NS		3	11/4/1993	0.14 J	12/19/2005	NS		0.4 J	12/15/2000	0.1 J	12/19/2001
PO-VPB-06	NS	NS		3	11/4/1993	0.14 J	12/19/2005	NS		0.4 J	12/15/2000	0.1 J	12/19/2001
PO-VPB-06	12/20/2007	ND (0.5)	-1	3	11/4/1993	0.14 J	12/19/2005	0.31 J		0.4 J	12/15/2000	0.1 J	12/19/2001
PO-VPB-07	3/16/2007	**41 J**		**370**	9/18/2001	**11**	3/13/1998	0.94 J		**23**	12/15/1997	0.62	1/5/2007
PO-VPB-07	6/15/2007	**24 J**		**370**	9/18/2001	**11**	3/13/1998	ND (5)	-1	**23**	12/15/1997	0.62	1/5/2007
PO-VPB-07	9/21/2007	**170**	2	**370**	9/18/2001	**11**	3/13/1998	2.8	1	**23**	12/15/1997	0.62	1/5/2007
PO-VPB-07	12/13/2007	**150**		**370**	9/18/2001	**11**	3/13/1998	2.7 J		**23**	12/15/1997	0.62	1/5/2007
PO-VPB-08	3/16/2007	**7.3 J**		**18**	12/15/1997	2.9	3/23/2005	**5.8 J**		**11**	9/18/2001	0.05 J	1/7/2003
PO-VPB-08	6/22/2007	**6.7 J**		**18**	12/15/1997	2.9	3/23/2005	5 J	-1	**11**	9/18/2001	0.05 J	1/7/2003
PO-VPB-08	NS	NS		**18**	12/15/1997	2.9	3/23/2005	NS		**11**	9/18/2001	0.05 J	1/7/2003
PO-VPB-08	NS	NS		**18**	12/15/1997	2.9	3/23/2005	NS		**11**	9/18/2001	0.05 J	1/7/2003
PO-VPB-09	NS	NS		ND (1) J	8/19/1993	ND (1) J	8/19/1993	NS		ND (1)	8/19/1993	ND (1)	8/19/1993
PO-VPB-09	NS	NS		ND (1) J	8/19/1993	ND (1) J	8/19/1993	NS		ND (1)	8/19/1993	ND (1)	8/19/1993
PO-VPB-09	NS	NS		ND (1) J	8/19/1993	ND (1) J	8/19/1993	NS		ND (1)	8/19/1993	ND (1)	8/19/1993
PO-VPB-09	NS	NS		ND (1) J	8/19/1993	ND (1) J	8/19/1993	NS		ND (1)	8/19/1993	ND (1)	8/19/1993
PO-VPB-10	3/15/2007	ND (0.5)		ND (0.5)	12/14/2006	ND (0.5)	12/14/2006	ND (0.5)		ND (0.5)	12/14/2006	ND (0.5)	12/14/2006
PO-VPB-10	6/14/2007	ND (0.5)		ND (0.5)	3/15/2007	ND (0.5)	3/15/2007	ND (0.5)		ND (0.5)	3/15/2007	ND (0.5)	3/15/2007
PO-VPB-10	9/20/2007	ND (0.5)		ND (0.5)	6/14/2007	ND (0.5)	6/14/2007	ND (0.5)		ND (0.5)	6/14/2007	ND (0.5)	6/14/2007
PO-VPB-10	12/20/2007	ND (0.5)		ND (0.5)	9/20/2007	ND (0.5)	9/20/2007	ND (0.5)		ND (0.5)	9/20/2007	ND (0.5)	9/20/2007
PO-VPB-11	NS	NS		ND (1)	9/20/1990	ND (1)	9/20/1990	NS		ND (1)	9/20/1990	ND (1)	9/20/1990
PO-VPB-11	NS	NS		ND (1)	9/20/1990	ND (1)	9/20/1990	NS		ND (1)	9/20/1990	ND (1)	9/20/1990
PO-VPB-11	NS	NS		ND (1)	9/20/1990	ND (1)	9/20/1990	NS		ND (1)	9/20/1990	ND (1)	9/20/1990
PO-VPB-11	NS	NS		ND (1)	9/20/1990	ND (1)	9/20/1990	NS		ND (1)	9/20/1990	ND (1)	9/20/1990
VD-VPB-01	3/9/2007	ND (0.5)		0.18 J	9/14/2005	0.1 J	9/12/2000	**5.4 J**	1	**10**	11/12/1993	1	6/6/2000
VD-VPB-01	6/13/2007	ND (0.5)		0.18 J	9/14/2005	0.1 J	9/12/2000	4.3 J	-1	**10**	11/12/1993	1	6/6/2000
VD-VPB-01	9/11/2007	ND (0.5)		0.18 J	9/14/2005	0.1 J	9/12/2000	3.8		**10**	11/12/1993	1	6/6/2000
VD-VPB-01	12/19/2007	ND (0.5)		0.18 J	9/14/2005	0.1 J	9/12/2000	2.4		**10**	11/12/1993	1	6/6/2000
VD-VPB-02	3/9/2007	ND (0.5)		0.077 J	12/20/2005	0.077 J	12/20/2005	3.2 J		**6.4**	3/17/2005	1	6/6/2000
VD-VPB-02	6/13/2007	ND (0.5)		0.077 J	12/20/2005	0.077 J	12/20/2005	3 J		**6.4**	3/17/2005	1	6/6/2000
VD-VPB-02	NS	NS		0.077 J	12/20/2005	0.077 J	12/20/2005	NS		**6.4**	3/17/2005	1	6/6/2000
VD-VPB-02	12/19/2007	ND (0.5)		0.077 J	12/20/2005	0.077 J	12/20/2005	2.9		**6.4**	3/17/2005	1	6/6/2000
VD-VPB-03	3/9/2007	ND (0.5)		ND (0.5)	12/19/2006	ND (0.5)	12/19/2006	0.2 J		1.1	2/27/1991	0.1 J	12/11/2001
VD-VPB-03	6/13/2007	ND (0.5)		ND (0.5)	3/9/2007	ND (0.5)	3/9/2007	ND (0.5)	-1	1.1	2/27/1991	0.1 J	12/11/2001
VD-VPB-03	9/11/2007	ND (0.5)		ND (0.5)	6/13/2007	ND (0.5)	6/13/2007	ND (0.5)		1.1	2/27/1991	0.1 J	12/11/2001
VD-VPB-03	12/19/2007	ND (0.5)		ND (0.5)	9/11/2007	ND (0.5)	9/11/2007	0.11 J	1	1.1	2/27/1991	0.1 J	12/11/2001
VD-VPB-04	NS	NS		1.2	2/27/1991	0.6	9/12/2000	NS		1.4	2/27/1991	0.2 J	6/23/1998
VD-VPB-04	NS	NS		1.2	2/27/1991	0.6	9/12/2000	NS		1.4	2/27/1991	0.2 J	6/23/1998
VD-VPB-04	NS	NS		1.2	2/27/1991	0.6	9/12/2000	NS		1.4	2/27/1991	0.2 J	6/23/1998
VD-VPB-04	NS	NS		1.2	2/27/1991	0.6	9/12/2000	NS		1.4	2/27/1991	0.2 J	6/23/1998

TABLE 2-4
Summary and Comparison of TCE and PCE - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	TCE (µg/L)						PCE (µg/L)				
		Current Value	Change	Historical Maximum		Historical Minimum		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date			Value	Date	Value	Date
VD-VPB-05	3/9/2007	0.092 J	1	3	11/5/1993	0.1 J	9/9/2002	0.35 J		2	11/5/1993	0.3 J	6/6/2000
VD-VPB-05	6/13/2007	ND (0.5)	-1	3	11/5/1993	0.092 J	3/9/2007	0.29 J		2	11/5/1993	0.3 J	6/6/2000
VD-VPB-05	9/11/2007	ND (0.5)		3	11/5/1993	0.092 J	3/9/2007	0.3 J		2	11/5/1993	0.29 J	6/13/2007
VD-VPB-05	NS	NS		3	11/5/1993	0.092 J	3/9/2007	NS		2	11/5/1993	0.29 J	6/13/2007
VD-VPB-06	3/9/2007	ND (0.5)		0.4 J	12/8/2000	0.05 J	3/9/1998	0.48 J		0.7	12/13/2002	0.16 J	10/2/1998
VD-VPB-06	6/13/2007	ND (0.5)		0.4 J	12/8/2000	0.05 J	3/9/1998	0.46 J		0.7	12/13/2002	0.16 J	10/2/1998
VD-VPB-06	9/11/2007	ND (0.5)		0.4 J	12/8/2000	0.05 J	3/9/1998	0.5 J		0.7	12/13/2002	0.16 J	10/2/1998
VD-VPB-06	12/19/2007	ND (0.5)		0.4 J	12/8/2000	0.05 J	3/9/1998	0.46 J		0.7	12/13/2002	0.16 J	10/2/1998
VD-VPB-07	3/9/2007	ND (0.5)		2 J	8/3/1995	2 J	8/3/1995	ND (0.5)		0.2 J	3/13/2002	0.07 J	3/9/1998
VD-VPB-07	6/13/2007	ND (0.5)		2 J	8/3/1995	2 J	8/3/1995	ND (0.5)		0.2 J	3/13/2002	0.07 J	3/9/1998
VD-VPB-07	9/24/2007	ND (0.5)		2 J	8/3/1995	2 J	8/3/1995	ND (0.5)		0.2 J	3/13/2002	0.07 J	3/9/1998
VD-VPB-07	12/19/2007	ND (0.5)		2 J	8/3/1995	2 J	8/3/1995	ND (0.5)		0.2 J	3/13/2002	0.07 J	3/9/1998

Notes:

Results greater than the MCL 5 µg/L are bolded.
Historical maximum and minimum values represent the minimum or maximum value as of the sample date.
NS = Not sampled
ND (250) = Not detected (reporting limit)
µg/L = Micrograms per liter
+1 = Value moved 1 concentration zone category up from previous sample date.
-1 = Value moved 1 concentration zone category down from previous sample date.
E = Concentration exceeds upper level of instrument calibration range
J = Approximate concentration

Flags within the 'Change' column indicate samples that exhibit a marked change in concentration during the current sampling event compared to the previous sampling event. A 'marked change' in TCE and PCE concentration is considered a change in concentration between one of the following categories to another:

- Not Detected (ND)
- >ND to 5 µg/L
- >5 to 50 µg/L
- >50 to 100 µg/L
- >100 to 500 µg/L
- >500 to 1,000 µg/L
- >1,000 to 5,000 µg/L
- >5,000 µg/L

For example, if a given well sample had a reported concentration of 750 µg/L TCE for the current value, but a reported concentration of 75 µg/L for the previous quarter, the 'Change' column for that well would contain a flag of +2, noting a increase of two categories

TABLE 2-5
Summary and Comparison of Nitrate - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	NO3 (mg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
CS-C01-105	3/13/2007	**62.3**	-1	**133.5**	12/22/2005	1.1 J	5/4/1992
CS-C01-105	6/22/2007	**49.0**		**133.5**	12/22/2005	1.1 J	5/4/1992
CS-C01-105	NS	NS		**133.5**	12/22/2005	1.1 J	5/4/1992
CS-C01-105	12/12/2007	44.5	-1	**133.5**	12/22/2005	1.1 J	5/4/1992
CS-C01-285	3/13/2007	24.9		**71.6 J**	5/4/1992	23.1	10/13/2006
CS-C01-285	6/22/2007	22.7		**71.6 J**	5/4/1992	23.1	10/13/2006
CS-C01-285	NS	NS		**71.6 J**	5/4/1992	22.7	6/22/2007
CS-C01-285	12/12/2007	24.9		**71.6 J**	5/4/1992	22.7	6/22/2007
CS-C01-558	NS	NS		3.0 J	5/4/1992	2.4	3/25/1991
CS-C01-558	NS	NS		3.0 J	5/4/1992	2.4	3/25/1991
CS-C01-558	NS	NS		3.0 J	5/4/1992	2.4	3/25/1991
CS-C01-558	11/30/2007	3.0		3.0 J	5/4/1992	2.4	3/25/1991
CS-C02-062	3/14/2007	**53.4**		**71.2**	5/22/1990	14.2	12/11/2000
CS-C02-062	6/19/2007	44.5	-1	**71.2**	5/22/1990	14.2	12/11/2000
CS-C02-062	9/25/2007	**49.0**	1	**71.2**	5/22/1990	14.2	12/11/2000
CS-C02-062	12/10/2007	**49.0**		**71.2**	5/22/1990	14.2	12/11/2000
CS-C02-180	3/14/2007	14.2		43.6	5/21/1990	4.2	3/15/2004
CS-C02-180	6/19/2007	13.4		43.6	5/21/1990	4.2	3/15/2004
CS-C02-180	9/25/2007	14.2		43.6	5/21/1990	4.2	3/15/2004
CS-C02-180	12/10/2007	14.2		43.6	5/21/1990	4.2	3/15/2004
CS-C02-250	3/14/2007	21.8	1	44.5	3/15/2004	6.2	8/17/1993
CS-C02-250	6/19/2007	19.6	-1	44.5	3/15/2004	6.2	8/17/1993
CS-C02-250	9/25/2007	21.4	1	44.5	3/15/2004	6.2	8/17/1993
CS-C02-250	12/10/2007	21.4		44.5	3/15/2004	6.2	8/17/1993
CS-C02-335	3/14/2007	34.3		**49.0**	11/20/1992	11.6	3/15/2004
CS-C02-335	6/19/2007	31.6		**49.0**	11/20/1992	11.6	3/15/2004
CS-C02-335	9/25/2007	33.8		**49.0**	11/20/1992	11.6	3/15/2004
CS-C02-335	12/10/2007	34.7		**49.0**	11/20/1992	11.6	3/15/2004
CS-C03-100	3/13/2007	**49.0**		**59.2**	3/8/2001	15.6	4/2/1991
CS-C03-100	6/19/2007	44.5	-1	**59.2**	3/8/2001	15.6	4/2/1991
CS-C03-100	9/12/2007	**49.0**	1	**59.2**	3/8/2001	15.6	4/2/1991
CS-C03-100	12/10/2007	**53.4**		**59.2**	3/8/2001	15.6	4/2/1991
CS-C03-325	NS	NS		9.8	12/2/2004	1.1	12/12/2006
CS-C03-325	NS	NS		9.8	12/2/2004	1.1	12/12/2006
CS-C03-325	NS	NS		9.8	12/2/2004	1.1	12/12/2006
CS-C03-325	12/17/2007	13.8		9.8	12/2/2004	1.1	12/12/2006
CS-C03-465	NS	NS		36.5	3/15/2004	3.5	7/2/1990
CS-C03-465	NS	NS		36.5	3/15/2004	3.5	7/2/1990
CS-C03-465	NS	NS		36.5	3/15/2004	3.5	7/2/1990
CS-C03-465	NS	NS		36.5	3/15/2004	3.5	7/2/1990
CS-C03-550	NS	NS		12.0	12/12/2006	0.9	7/2/1990
CS-C03-550	NS	NS		12.0	12/12/2006	0.9	7/2/1990
CS-C03-550	NS	NS		12.0	12/12/2006	0.9	7/2/1990
CS-C03-550	12/17/2007	1.2		12.0	12/12/2006	0.9	7/2/1990
CS-C04-290	3/22/2007	11.1		33.4	6/9/2000	10.2	1/3/2007
CS-C04-290	6/20/2007	1.4		33.4	6/9/2000	10.2	1/3/2007
CS-C04-290	9/12/2007	11.1		33.4	6/9/2000	1.4	6/20/2007
CS-C04-290	12/5/2007	11.1		33.4	6/9/2000	1.4	6/20/2007

TABLE 2-5
Summary and Comparison of Nitrate - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	NO3 (mg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
CS-C04-382	3/22/2007	8.9		19.6	5/25/1990	5.8	8/19/1993
CS-C04-382	6/20/2007	8.9		19.6	5/25/1990	5.8	8/19/1993
CS-C04-382	9/12/2007	9.3		19.6	5/25/1990	5.8	8/19/1993
CS-C04-382	12/5/2007	8.9		19.6	5/25/1990	5.8	8/19/1993
CS-C04-520	NS	NS		1.5 J	5/7/1992	0.9 J	11/30/1992
CS-C04-520	NS	NS		1.5 J	5/7/1992	0.9 J	11/30/1992
CS-C04-520	NS	NS		1.5 J	5/7/1992	0.9 J	11/30/1992
CS-C04-520	11/30/2007	1.2		1.5 J	5/7/1992	0.9 J	11/30/1992
CS-C05-160	3/16/2007	26.7		32.0	7/5/2006	4.9	8/17/1993
CS-C05-160	6/14/2007	24.0		32.0	7/5/2006	4.9	8/17/1993
CS-C05-160	9/14/2007	26.7		32.0	7/5/2006	4.9	8/17/1993
CS-C05-160	12/6/2007	25.8		32.0	7/5/2006	4.9	8/17/1993
CS-C05-290	3/16/2007	8.5		23.6	3/28/1991	3.8	8/17/1993
CS-C05-290	6/14/2007	8.0		23.6	3/28/1991	3.8	8/17/1993
CS-C05-290	9/14/2007	7.6		23.6	3/28/1991	3.8	8/17/1993
CS-C05-290	12/6/2007	7.6		23.6	3/28/1991	3.8	8/17/1993
CS-C06-185	3/22/2007	9.3		14.2	5/15/1990	6.9	12/7/1999
CS-C06-185	6/21/2007	9.3		14.2	5/15/1990	6.9	12/7/1999
CS-C06-185	9/13/2007	9.8		14.2	5/15/1990	6.9	12/7/1999
CS-C06-185	NS	NS		14.2	5/15/1990	6.9	12/7/1999
CS-C06-278	NS	NS		8.9	12/12/2000	0.05 J	1/13/2000
CS-C06-278	NS	NS		8.9	12/12/2000	0.05 J	1/13/2000
CS-C06-278	NS	NS		8.9	12/12/2000	0.05 J	1/13/2000
CS-C06-278	NS	NS		8.9	12/12/2000	0.05 J	1/13/2000
CS-VPB-01	3/15/2007	40.1		**48.1**	3/8/2001	37.0	2/1/1992
CS-VPB-01	6/22/2007	39.6		**48.1**	3/8/2001	37.0	2/1/1992
CS-VPB-01	9/19/2007	42.3		**48.1**	3/8/2001	37.0	2/1/1992
CS-VPB-01	NS	NS		**48.1**	3/8/2001	37.0	2/1/1992
CS-VPB-02	NS	NS		**68.1**	6/12/2000	32.9	2/1/1992
CS-VPB-02	NS	NS		**68.1**	6/12/2000	32.9	2/1/1992
CS-VPB-02	NS	NS		**68.1**	6/12/2000	32.9	2/1/1992
CS-VPB-02	11/29/2007	44.5		**68.1**	6/12/2000	32.9	2/1/1992
CS-VPB-03	3/13/2007	16.9		15.6	10/17/2006	4.9	1/25/1991
CS-VPB-03	6/19/2007	15.6		16.9	3/13/2007	4.9	1/25/1991
CS-VPB-03	9/13/2007	17.4		16.9	3/13/2007	4.9	1/25/1991
CS-VPB-03	12/11/2007	17.8		17.4	9/13/2007	4.9	1/25/1991
CS-VPB-04	3/22/2007	**49.0**		**58.7**	8/5/1992	1.7	3/12/1998
CS-VPB-04	6/20/2007	**49.0**		**58.7**	8/5/1992	1.7	3/12/1998
CS-VPB-04	9/12/2007	**49.0**		**58.7**	8/5/1992	1.7	3/12/1998
CS-VPB-04	12/5/2007	44.5	-1	**58.7**	8/5/1992	1.7	3/12/1998
CS-VPB-05	3/16/2007	**53.4**	1	**63.6**	6/5/2002	31.3	2/21/1994
CS-VPB-05	6/14/2007	**49.0**		**63.6**	6/5/2002	31.3	2/21/1994
CS-VPB-05	9/14/2007	**53.4**		**63.6**	6/5/2002	31.3	2/21/1994
CS-VPB-05	12/6/2007	**53.4**		**63.6**	6/5/2002	31.3	2/21/1994
CS-VPB-06	3/22/2007	40.1		**53.4**	5/15/1990	4.6	5/17/1994
CS-VPB-06	6/21/2007	39.2		**53.4**	5/15/1990	4.6	5/17/1994
CS-VPB-06	9/13/2007	38.3		**53.4**	5/15/1990	4.6	5/17/1994
CS-VPB-06	12/11/2007	37.4		**53.4**	5/15/1990	4.6	5/17/1994

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Well ID	Sample Date	NO3 (mg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
CS-VPB-07	3/15/2007	**57.9 J**		**53.4**	1/3/2007	26.3	12/28/2005
CS-VPB-07	6/20/2007	**57.9**		**57.9 J**	3/15/2007	26.3	12/28/2005
CS-VPB-07	9/19/2007	**53.4**		**57.9**	6/20/2007	26.3	12/28/2005
CS-VPB-07	12/13/2007	**53.4**		**57.9**	6/20/2007	26.3	12/28/2005
CS-VPB-08	3/13/2007	44.5		**48.6 J**	12/3/1999	10.2	1/16/1990
CS-VPB-08	6/15/2007	43.2		**48.6 J**	12/3/1999	10.2	1/16/1990
CS-VPB-08	9/12/2007	41.8		**48.6 J**	12/3/1999	10.2	1/16/1990
CS-VPB-08	12/5/2007	40.9		**48.6 J**	12/3/1999	10.2	1/16/1990
CS-VPB-09	3/16/2007	**53.4**	1	**55.6**	12/19/2000	30.4	9/27/1990
CS-VPB-09	6/14/2007	**49.0**		**55.6**	12/19/2000	30.4	9/27/1990
CS-VPB-09	9/13/2007	**49.0**		**55.6**	12/19/2000	30.4	9/27/1990
CS-VPB-09	12/11/2007	**53.4**		**55.6**	12/19/2000	30.4	9/27/1990
CS-VPB-10	3/22/2007	**57.9**		**62.3**	7/5/2006	29.0	2/23/1994
CS-VPB-10	6/14/2007	**57.9**		**62.3**	7/5/2006	29.0	2/23/1994
CS-VPB-10	9/13/2007	**57.9**		**62.3**	7/5/2006	29.0	2/23/1994
CS-VPB-10	12/11/2007	**57.9**		**62.3**	7/5/2006	29.0	2/23/1994
CS-VPB-11	3/22/2007	**49.0**	1	**72.1**	5/13/1992	6.1 J	12/8/1999
CS-VPB-11	6/15/2007	**49.0**		**72.1**	5/13/1992	6.1 J	12/8/1999
CS-VPB-11	9/19/2007	**49.0**		**72.1**	5/13/1992	6.1 J	12/8/1999
CS-VPB-11	12/13/2007	**49.0**		**72.1**	5/13/1992	6.1 J	12/8/1999
NH-C01-325	3/14/2007	**75.7**		**133.5 J**	9/21/2001	9.3	3/21/1996
NH-C01-325	6/20/2007	**93.5**		**133.5 J**	9/21/2001	9.3	3/21/1996
NH-C01-325	9/19/2007	**111.3**		**133.5 J**	9/21/2001	9.3	3/21/1996
NH-C01-325	12/12/2007	**103.7**		**133.5 J**	9/21/2001	9.3	3/21/1996
NH-C01-450	NS	NS		13.8	12/18/2000	6.5	11/3/1993
NH-C01-450	NS	NS		13.8	12/18/2000	6.5	11/3/1993
NH-C01-450	NS	NS		13.8	12/18/2000	6.5	11/3/1993
NH-C01-450	NS	NS		13.8	12/18/2000	6.5	11/3/1993
NH-C01-660	NS	NS		10.1 J	4/30/1992	8.0	12/1/2006
NH-C01-660	NS	NS		10.1 J	4/30/1992	8.0	12/1/2006
NH-C01-660	NS	NS		10.1 J	4/30/1992	8.0	12/1/2006
NH-C01-660	11/28/2007	8.9		10.1 J	4/30/1992	8.0	12/1/2006
NH-C01-780	NS	NS		10.3 J	4/30/1992	6.2	12/1/2006
NH-C01-780	NS	NS		10.3 J	4/30/1992	6.2	12/1/2006
NH-C01-780	NS	NS		10.3 J	4/30/1992	6.2	12/1/2006
NH-C01-780	11/28/2007	7.1		10.3 J	4/30/1992	6.2	12/1/2006
NH-C02-220	3/12/2007	**53.4**		**63.6**	8/15/1990	33.4	12/6/1996
NH-C02-220	6/18/2007	44.5	-1	**63.6**	8/15/1990	33.4	12/6/1996
NH-C02-220	9/17/2007	**57.9**	1	**63.6**	8/15/1990	33.4	12/6/1996
NH-C02-220	12/3/2007	**49.0**		**63.6**	8/15/1990	33.4	12/6/1996
NH-C02-325	3/12/2007	22.3		**54.7**	11/15/1993	16.5	9/20/2001
NH-C02-325	6/18/2007	19.6	-1	**54.7**	11/15/1993	16.5	9/20/2001
NH-C02-325	9/17/2007	20.5	1	**54.7**	11/15/1993	16.5	9/20/2001
NH-C02-325	12/3/2007	20.5		**54.7**	11/15/1993	16.5	9/20/2001
NH-C02-520	3/12/2007	10.7		**76.5**	3/7/2001	4.5	11/16/1992
NH-C02-520	6/18/2007	8.5		**76.5**	3/7/2001	4.5	11/16/1992
NH-C02-520	9/17/2007	8.9		**76.5**	3/7/2001	4.5	11/16/1992
NH-C02-520	12/3/2007	8.9		**76.5**	3/7/2001	4.5	11/16/1992

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Well ID	Sample Date	NO3 (mg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
NH-C02-681	NS	NS		3.3 J	5/2/1992	1.5	12/9/2003
NH-C02-681	NS	NS		3.3 J	5/2/1992	1.5	12/9/2003
NH-C02-681	NS	NS		3.3 J	5/2/1992	1.5	12/9/2003
NH-C02-681	12/3/2007	1.7		3.3 J	5/2/1992	1.5	12/9/2003
NH-C03-380	NS	NS		40.9	6/7/2000	5.3	1/25/1995
NH-C03-380	NS	NS		40.9	6/7/2000	5.3	1/25/1995
NH-C03-380	NS	NS		40.9	6/7/2000	5.3	1/25/1995
NH-C03-380	11/27/2007	12.5		40.9	6/7/2000	5.3	1/25/1995
NH-C03-580	NS	NS		44.5	5/23/1990	8.5	12/5/2006
NH-C03-580	NS	NS		44.5	5/23/1990	8.5	12/5/2006
NH-C03-580	NS	NS		44.5	5/23/1990	8.5	12/5/2006
NH-C03-580	11/27/2007	18.7		44.5	5/23/1990	8.5	12/5/2006
NH-C03-680	NS	NS		10.7	12/12/2001	2.0	5/23/1990
NH-C03-680	NS	NS		10.7	12/12/2001	2.0	5/23/1990
NH-C03-680	NS	NS		10.7	12/12/2001	2.0	5/23/1990
NH-C03-680	11/27/2007	4.1		10.7	12/12/2001	2.0	5/23/1990
NH-C03-800	NS	NS		4.5	1/11/2000	2.3	12/3/2004
NH-C03-800	NS	NS		4.5	1/11/2000	2.3	12/3/2004
NH-C03-800	NS	NS		4.5	1/11/2000	2.3	12/3/2004
NH-C03-800	11/27/2007	2.4		4.5	1/11/2000	2.3	12/3/2004
NH-C04-240	3/6/2007	25.8		26.3	12/6/2006	7.7	11/9/1993
NH-C04-240	6/21/2007	ND (0.445)	-2	26.3	12/6/2006	7.7	11/9/1993
NH-C04-240	NS	NS		26.3	12/6/2006	7.7	11/9/1993
NH-C04-240	11/29/2007	26.3	2	26.3	12/6/2006	7.7	11/9/1993
NH-C04-375	3/6/2007	27.6		**71.2**	3/21/1991	2.2	12/14/1995
NH-C04-375	6/21/2007	27.6		**71.2**	3/21/1991	2.2	12/14/1995
NH-C04-375	NS	NS		**71.2**	3/21/1991	2.2	12/14/1995
NH-C04-375	11/29/2007	29.4		**71.2**	3/21/1991	2.2	12/14/1995
NH-C04-560	NS	NS		1.9 J	5/3/1992	0.22	12/11/2001
NH-C04-560	NS	NS		1.9 J	5/3/1992	0.22	12/11/2001
NH-C04-560	NS	NS		1.9 J	5/3/1992	0.22	12/11/2001
NH-C04-560	11/29/2007	ND (0.445)		1.9 J	5/3/1992	0.22	12/11/2001
NH-C05-320	NS	NS		**89.0**	1/30/1991	**62.7**	12/5/1995
NH-C05-320	NS	NS		**89.0**	1/30/1991	**62.7**	12/5/1995
NH-C05-320	NS	NS		**89.0**	1/30/1991	**62.7**	12/5/1995
NH-C05-320	NS	NS		**89.0**	1/30/1991	**62.7**	12/5/1995
NH-C05-460	3/14/2007	38.7		36.5	12/20/2006	5.3	12/5/1995
NH-C05-460	6/20/2007	36.9		38.7	3/14/2007	5.3	12/5/1995
NH-C05-460	9/19/2007	38.7		38.7	3/14/2007	5.3	12/5/1995
NH-C05-460	12/4/2007	36.5		38.7	9/19/2007	5.3	12/5/1995
NH-C06-160	3/8/2007	**75.7**		**106.8**	12/6/2003	**52.1**	1/25/1995
NH-C06-160	6/19/2007	**66.8**		**106.8**	12/6/2003	**52.1**	1/25/1995
NH-C06-160	9/18/2007	ND (0.445)	-4	**106.8**	12/6/2003	**52.1**	1/25/1995
NH-C06-160	11/29/2007	**71.2**	4	**106.8**	12/6/2003	**52.1**	1/25/1995
NH-C06-285	3/13/2007	44.5		44.1	10/10/2006	22.3	1/24/1991
NH-C06-285	6/19/2007	42.3		44.5	3/13/2007	22.3	1/24/1991
NH-C06-285	9/18/2007	**49.0**	1	44.5	3/13/2007	22.3	1/24/1991
NH-C06-285	12/4/2007	**49.0**		**49.0**	9/18/2007	22.3	1/24/1991

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Well ID	Sample Date	NO3 (mg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
NH-C06-425	NS	NS		13.4	11/17/1992	4.5	1/24/1991
NH-C06-425	NS	NS		13.4	11/17/1992	4.5	1/24/1991
NH-C06-425	NS	NS		13.4	11/17/1992	4.5	1/24/1991
NH-C06-425	11/29/2007	13.8		13.4	11/17/1992	4.5	1/24/1991
NH-VPB-01	3/23/2007	44.5		**67.2 J**	5/4/1992	37.4	1/16/1990
NH-VPB-01	6/22/2007	41.8		**67.2 J**	5/4/1992	37.4	1/16/1990
NH-VPB-01	9/20/2007	44.5		**67.2 J**	5/4/1992	37.4	1/16/1990
NH-VPB-01	12/12/2007	44.5		**67.2 J**	5/4/1992	37.4	1/16/1990
NH-VPB-02	3/12/2007	**62.3**		**80.1**	9/10/2003	32.9	1/17/1990
NH-VPB-02	6/21/2007	**62.3**		**80.1**	9/10/2003	32.9	1/17/1990
NH-VPB-02	9/18/2007	**71.2**	1	**80.1**	9/10/2003	32.9	1/17/1990
NH-VPB-02	12/4/2007	**62.3**	-1	**80.1**	9/10/2003	32.9	1/17/1990
NH-VPB-03	NS	NS		**66.8**	6/3/2003	43.2	1/17/1990
NH-VPB-03	NS	NS		**66.8**	6/3/2003	43.2	1/17/1990
NH-VPB-03	NS	NS		**66.8**	6/3/2003	43.2	1/17/1990
NH-VPB-03	NS	NS		**66.8**	6/3/2003	43.2	1/17/1990
NH-VPB-04	3/8/2007	**57.9**		**57.9**	10/6/2006	38.7	11/17/1992
NH-VPB-04	6/12/2007	44.5	-1	**57.9**	3/8/2007	38.7	11/17/1992
NH-VPB-04	9/25/2007	**49.0**	1	**57.9**	3/8/2007	38.7	11/17/1992
NH-VPB-04	11/28/2007	**49.0**		**57.9**	3/8/2007	38.7	11/17/1992
NH-VPB-05	3/12/2007	**66.8**		**107.7**	9/14/2000	18.2	6/5/1997
NH-VPB-05	6/18/2007	**66.8**		**107.7**	9/14/2000	18.2	6/5/1997
NH-VPB-05	9/17/2007	**75.7**		**107.7**	9/14/2000	18.2	6/5/1997
NH-VPB-05	12/3/2007	**75.7**		**107.7**	9/14/2000	18.2	6/5/1997
NH-VPB-06	3/8/2007	**75.7**	1	**98.8**	12/18/1996	36.9	7/30/1992
NH-VPB-06	6/20/2007	**75.7**		**98.8**	12/18/1996	36.9	7/30/1992
NH-VPB-06	9/10/2007	**75.7**		**98.8**	12/18/1996	36.9	7/30/1992
NH-VPB-06	NS	NS		**98.8**	12/18/1996	36.9	7/30/1992
NH-VPB-07	3/8/2007	**53.4**		**57.9**	12/11/2006	2.6	2/4/1991
NH-VPB-07	6/14/2007	**49.0**		**57.9**	12/11/2006	2.6	2/4/1991
NH-VPB-07	9/13/2007	40.5	-1	**57.9**	12/11/2006	2.6	2/4/1991
NH-VPB-07	11/27/2007	39.6		**57.9**	12/11/2006	2.6	2/4/1991
NH-VPB-08	3/12/2007	31.2		**49.0**	1/30/1992	9.6	11/10/1993
NH-VPB-08	6/18/2007	25.8		**49.0**	1/30/1992	9.6	11/10/1993
NH-VPB-08	9/17/2007	27.1		**49.0**	1/30/1992	9.6	11/10/1993
NH-VPB-08	12/3/2007	26.7		**49.0**	1/30/1992	9.6	11/10/1993
NH-VPB-09	NS	NS		37.2	6/6/2000	3.6	12/5/1996
NH-VPB-09	NS	NS		37.2	6/6/2000	3.6	12/5/1996
NH-VPB-09	NS	NS		37.2	6/6/2000	3.6	12/5/1996
NH-VPB-09	NS	NS		37.2	6/6/2000	3.6	12/5/1996
NH-VPB-10	NS	NS		17.8	11/12/1992	0.8	12/14/2004
NH-VPB-10	NS	NS		17.8	11/12/1992	0.8	12/14/2004
NH-VPB-10	NS	NS		17.8	11/12/1992	0.8	12/14/2004
NH-VPB-10	11/28/2007	0.4 J		17.8	11/12/1992	0.8	12/14/2004
NH-VPB-11	NS	NS		15.1	10/19/1994	1.5	1/31/1991
NH-VPB-11	NS	NS		15.1	10/19/1994	1.5	1/31/1991
NH-VPB-11	NS	NS		15.1	10/19/1994	1.5	1/31/1991
NH-VPB-11	NS	NS		15.1	10/19/1994	1.5	1/31/1991

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		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
NH-VPB-12	NS	NS		44.5	12/13/2001	20.0	1/17/1990
NH-VPB-12	NS	NS		44.5	12/13/2001	20.0	1/17/1990
NH-VPB-12	NS	NS		44.5	12/13/2001	20.0	1/17/1990
NH-VPB-12	NS	NS		44.5	12/13/2001	20.0	1/17/1990
NH-VPB-13	NS	NS		**101.5**	9/6/1990	6.7	12/4/1995
NH-VPB-13	NS	NS		**101.5**	9/6/1990	6.7	12/4/1995
NH-VPB-13	NS	NS		**101.5**	9/6/1990	6.7	12/4/1995
NH-VPB-13	NS	NS		**101.5**	9/6/1990	6.7	12/4/1995
NH-VPB-14	NS	NS		**73.0**	5/10/1995	30.3	5/7/1993
NH-VPB-14	NS	NS		**73.0**	5/10/1995	30.3	5/7/1993
NH-VPB-14	NS	NS		**73.0**	5/10/1995	30.3	5/7/1993
NH-VPB-14	NS	NS		**73.0**	5/10/1995	30.3	5/7/1993
PO-C01-195	3/16/2007	24.9		35.1	8/29/1990	23.6	1/5/2007
PO-C01-195	6/15/2007	24.0		35.1	8/29/1990	23.6	1/5/2007
PO-C01-195	9/14/2007	23.1		35.1	8/29/1990	23.6	1/5/2007
PO-C01-195	12/11/2007	23.6		35.1	8/29/1990	23.1	9/14/2007
PO-C01-354	NS	NS		ND (0.445)	12/15/2006	ND (0.445)	12/15/2006
PO-C01-354	NS	NS		ND (0.445)	12/15/2006	ND (0.445)	12/15/2006
PO-C01-354	NS	NS		ND (0.445)	12/15/2006	ND (0.445)	12/15/2006
PO-C01-354	12/11/2007	ND (0.445)		ND (0.445)	12/15/2006	ND (0.445)	12/15/2006
PO-C02-053	NS	NS		**71.2**	6/13/2000	11.3	5/19/1994
PO-C02-053	NS	NS		**71.2**	6/13/2000	11.3	5/19/1994
PO-C02-053	NS	NS		**71.2**	6/13/2000	11.3	5/19/1994
PO-C02-053	12/17/2007	**53.4**		**71.2**	6/13/2000	11.3	5/19/1994
PO-C02-205	NS	NS		27.1	12/20/2000	19.1	11/11/1993
PO-C02-205	NS	NS		27.1	12/20/2000	19.1	11/11/1993
PO-C02-205	NS	NS		27.1	12/20/2000	19.1	11/11/1993
PO-C02-205	12/17/2007	24.5		27.1	12/20/2000	19.1	11/11/1993
PO-C03-182	NS	NS		**50.3**	10/28/1994	15.9	9/20/2000
PO-C03-182	NS	NS		**50.3**	10/28/1994	15.9	9/20/2000
PO-C03-182	NS	NS		**50.3**	10/28/1994	15.9	9/20/2000
PO-C03-182	12/13/2007	32.5		**50.3**	10/28/1994	15.9	9/20/2000
PO-C03-235	NS	NS		30.3	6/12/2003	8.0	3/12/1991
PO-C03-235	NS	NS		30.3	6/12/2003	8.0	3/12/1991
PO-C03-235	NS	NS		30.3	6/12/2003	8.0	3/12/1991
PO-C03-235	12/13/2007	28.9		30.3	6/12/2003	8.0	3/12/1991
PO-VPB-01	NS	NS		**48.5**	10/3/1990	36.8	2/23/1994
PO-VPB-01	NS	NS		**48.5**	10/3/1990	36.8	2/23/1994
PO-VPB-01	9/20/2007	43.2		**48.5**	10/3/1990	36.8	2/23/1994
PO-VPB-01	12/20/2007	40.9		**48.5**	10/3/1990	36.8	2/23/1994
PO-VPB-02	3/16/2007	**53.4**		**71.6**	8/27/1990	37.6	11/11/1993
PO-VPB-02	6/15/2007	**53.4**		**71.6**	8/27/1990	37.6	11/11/1993
PO-VPB-02	9/14/2007	**53.4**		**71.6**	8/27/1990	37.6	11/11/1993
PO-VPB-02	12/11/2007	**53.4**		**71.6**	8/27/1990	37.6	11/11/1993
PO-VPB-03	3/15/2007	**53.4**		**59.0**	6/7/2002	21.8	10/28/1994
PO-VPB-03	6/21/2007	**53.4**		**59.0**	6/7/2002	21.8	10/28/1994
PO-VPB-03	9/20/2007	**53.4**		**59.0**	6/7/2002	21.8	10/28/1994
PO-VPB-03	12/13/2007	**53.4**		**59.0**	6/7/2002	21.8	10/28/1994

TABLE 2-5
Summary and Comparison of Nitrate - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	NO3 (mg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
PO-VPB-04	NS	NS		1.8	11/14/1989	1.8	11/14/1989
PO-VPB-04	NS	NS		1.8	11/14/1989	1.8	11/14/1989
PO-VPB-04	NS	NS		1.8	11/14/1989	1.8	11/14/1989
PO-VPB-04	NS	NS		1.8	11/14/1989	1.8	11/14/1989
PO-VPB-05	NS	NS		24.5	10/7/1998	1.8	12/16/2003
PO-VPB-05	NS	NS		24.5	10/7/1998	1.8	12/16/2003
PO-VPB-05	NS	NS		24.5	10/7/1998	1.8	12/16/2003
PO-VPB-05	12/20/2007	5.3		24.5	10/7/1998	1.8	12/16/2003
PO-VPB-06	NS	NS		19.6	12/15/2000	2.4 J	5/15/1992
PO-VPB-06	NS	NS		19.6	12/15/2000	2.4 J	5/15/1992
PO-VPB-06	NS	NS		19.6	12/15/2000	2.4 J	5/15/1992
PO-VPB-06	12/20/2007	16.0		19.6	12/15/2000	2.4 J	5/15/1992
PO-VPB-07	3/16/2007	**53.4**	1	**175.3**	9/20/2000	34.3	3/13/1998
PO-VPB-07	6/15/2007	**53.4**		**175.3**	9/20/2000	34.3	3/13/1998
PO-VPB-07	NS	NS		**175.3**	9/20/2000	34.3	3/13/1998
PO-VPB-07	12/13/2007	**89.0**	1	**175.3**	9/20/2000	34.3	3/13/1998
PO-VPB-08	3/16/2007	12.0		18.2	9/28/2004	3.9	8/19/1993
PO-VPB-08	6/22/2007	8.9		18.2	9/28/2004	3.9	8/19/1993
PO-VPB-08	NS	NS		18.2	9/28/2004	3.9	8/19/1993
PO-VPB-08	NS	NS		18.2	9/28/2004	3.9	8/19/1993
PO-VPB-09	NS	NS		1.5	11/15/1989	1.5	8/19/1993
PO-VPB-09	NS	NS		1.5	11/15/1989	1.5	8/19/1993
PO-VPB-09	NS	NS		1.5	11/15/1989	1.5	8/19/1993
PO-VPB-09	NS	NS		1.5	11/15/1989	1.5	8/19/1993
PO-VPB-10	3/15/2007	**80.1**		**84.6**	12/17/2003	**53.4**	11/16/1989
PO-VPB-10	6/14/2007	**80.1**		**84.6**	12/17/2003	**53.4**	11/16/1989
PO-VPB-10	9/20/2007	**84.6**		**84.6**	12/17/2003	**53.4**	11/16/1989
PO-VPB-10	12/20/2007	**75.7**		**84.6**	9/20/2007	**53.4**	11/16/1989
PO-VPB-11	NS	NS		2.8	11/16/1989	2.8	11/16/1989
PO-VPB-11	NS	NS		2.8	11/16/1989	2.8	11/16/1989
PO-VPB-11	NS	NS		2.8	11/16/1989	2.8	11/16/1989
PO-VPB-11	NS	NS		2.8	11/16/1989	2.8	11/16/1989
VD-VPB-01	3/9/2007	**57.9**		**80.5**	1/27/1995	**51.6**	12/8/2000
VD-VPB-01	6/13/2007	**49.0**		**80.5**	1/27/1995	**51.6**	12/8/2000
VD-VPB-01	9/11/2007	**49.0**		**80.5**	1/27/1995	**49.0**	6/13/2007
VD-VPB-01	12/19/2007	**49.0**		**80.5**	1/27/1995	**49.0**	9/11/2007
VD-VPB-02	3/9/2007	**57.9**		**72.1**	5/6/1992	39.2	11/12/1993
VD-VPB-02	6/13/2007	**53.4**		**72.1**	5/6/1992	39.2	11/12/1993
VD-VPB-02	NS	NS		**72.1**	5/6/1992	39.2	11/12/1993
VD-VPB-02	12/19/2007	**57.9**		**72.1**	5/6/1992	39.2	11/12/1993
VD-VPB-03	3/9/2007	25.8		34.7	5/11/1993	12.9	12/9/2004
VD-VPB-03	6/13/2007	24.5		34.7	5/11/1993	12.9	12/9/2004
VD-VPB-03	9/11/2007	24.9		34.7	5/11/1993	12.9	12/9/2004
VD-VPB-03	12/19/2007	23.1		34.7	5/11/1993	12.9	12/9/2004
VD-VPB-04	NS	NS		35.2 J	2/27/1991	4.9 J	9/9/1997
VD-VPB-04	NS	NS		35.2 J	2/27/1991	4.9 J	9/9/1997
VD-VPB-04	NS	NS		35.2 J	2/27/1991	4.9 J	9/9/1997
VD-VPB-04	NS	NS		35.2 J	2/27/1991	4.9 J	9/9/1997

TABLE 2-5
Summary and Comparison of Nitrate - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	NO3 (mg/L)					
		Current Value	Change	Historical Maximum		Historical Minimum	
				Value	Date	Value	Date
VD-VPB-05	3/9/2007	36.9		**86.8**	8/11/1993	38.3 J	9/9/1997
VD-VPB-05	6/13/2007	36.5		**86.8**	8/11/1993	36.9	3/9/2007
VD-VPB-05	9/11/2007	39.2		**86.8**	8/11/1993	36.5	6/13/2007
VD-VPB-05	NS	NS		**86.8**	8/11/1993	36.5	6/13/2007
VD-VPB-06	3/9/2007	**53.4**		**71.2**	7/5/2006	31.2	6/10/2005
VD-VPB-06	6/13/2007	44.1	-1	**71.2**	7/5/2006	31.2	6/10/2005
VD-VPB-06	9/11/2007	40.1		**71.2**	7/5/2006	31.2	6/10/2005
VD-VPB-06	12/19/2007	37.4		**71.2**	7/5/2006	31.2	6/10/2005
VD-VPB-07	3/9/2007	15.6		**47.6**	8/10/1992	9.3	6/9/1997
VD-VPB-07	6/13/2007	12.9		**47.6**	8/10/1992	9.3	6/9/1997
VD-VPB-07	9/24/2007	12.5		**47.6**	8/10/1992	9.3	6/9/1997
VD-VPB-07	12/19/2007	11.6		**47.6**	8/10/1992	9.3	6/9/1997

Notes:

Results greater than the MCL 45 mg/L are bolded.
Historical maximum and minimum values represent the minimum or maximum value as of the sample date.
NS = Not sampled
ND (250) = Not detected (reporting limit)
µg/L = Micrograms per liter
+1 = Value moved 1 concentration zone category up from previous sample date.
-1 = Value moved 1 concentration zone category down from previous sample date.
J = Approximate concentration

Flags within the 'Change' column indicate samples that exhibit a marked change in reported nitrate concentration from the current quarter to the previous quarter. A marked change in nitrate concentration (as NO3) is herein defined as a change in concentration between the following categories:

- Not Detected (ND)
- >ND to 20 mg/L
- >20 to 45 mg/L
- >45 to 65 mg/L
- >65 mg/L

Numerical flags in the 'Change' column follow the same logic as described for TCE and PCE: a reported nitrate concentration increase of one category relative to the previous quarter's sample will read +1; a decrease of two categories will read -2.

TABLE 2-6
General Water Chemistry - Fourth Quarter 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Chloride (mg/L)	Sulfate (mg/L)	Hardness (mg/L)	Alkalinity, Total (mg/L)	TDS (mg/L)	TOC (mg/L)
CS-C01-105	12/12/2007	96	190	489.6	270	720	0.48 J
CS-C01-285	12/12/2007	23	60	270.4	220	400	ND (0.5)
CS-C01-558	11/30/2007	30	97.1	206.3	160	380	ND (0.5)
CS-C02-062	12/10/2007	100	200	1,008.7	290	800	0.54
CS-C02-180	12/10/2007	50	310	449.6	220	780	ND (0.5)
CS-C02-250	12/10/2007	25	110	285.1	200	440	ND (0.5)
CS-C02-335	12/10/2007	30	85	296.3	220	460	0.26 J
CS-C03-100	12/10/2007	76	120	470.2	310	680	0.53
CS-C03-325	12/17/2007	19	46	168.9	170	290	ND (0.5)
CS-C03-550	12/17/2007	130	110	179.6	140	510	ND (0.5)
CS-C04-290	12/5/2007	16	45	191.9	180	300	ND (0.5)
CS-C04-382	12/5/2007	17	69	222.0	180	330	ND (0.5)
CS-C04-520	11/30/2007	100	120	396.4	150	500	ND (0.5)
CS-C05-160	12/6/2007	39	98.6	300.0	220	470	ND (0.5)
CS-C05-290	12/6/2007	38	91	220.6	180	390	ND (0.5)
CS-VPB-02	11/29/2007	97	210	519.1	270	810	0.36 J
CS-VPB-03	12/11/2007	18	39	175.0	170	290	ND (0.5)
CS-VPB-04	12/5/2007	83	150	562.8	420	830	0.76
CS-VPB-05	12/6/2007	75	140	468.7	310	700	0.39 J
CS-VPB-06	12/11/2007	100	180	450.7	260	740	0.58
CS-VPB-07	12/13/2007	85	150	547.4	370	770	0.67
CS-VPB-08	12/5/2007	87.7	181	463.0	280	740	0.43 J
CS-VPB-09	12/11/2007	180	220	865.4	530	1,200	0.66
CS-VPB-10	12/11/2007	94	170	475.1	230	680	0.45 J
CS-VPB-11	12/13/2007	90	170	472.6	260	680	0.43 J
NH-C01-325	12/12/2007	63	72	458.1	315	610	0.41 J
NH-C01-660	11/28/2007	12	71.1	219.9	200	340	0.36 J
NH-C01-780	11/28/2007	12	63	412.4	190	320	ND (0.5)
NH-C02-220	12/3/2007	39	100	344.5	220	500	ND (0.5)
NH-C02-325	12/3/2007	24	61	302.4	250	430	0.35 J
NH-C02-520	12/3/2007	15	91	264.2	184	380	ND (0.5)
NH-C02-681	12/3/2007	9.6	41	151.3	160	260	ND (0.5)
NH-C03-380	11/27/2007	20	56	283.1	250	370	0.27 J
NH-C03-580	11/27/2007	20	66	264.1	220	380	ND (0.5)
NH-C03-680	11/27/2007	11	47	172.5	170	270	ND (0.5)
NH-C03-800	11/27/2007	8	42	150.4	160	250	ND (0.5)
NH-C04-240	11/29/2007	39	73	227.3	170	390	ND (0.5)
NH-C04-375	11/29/2007	38	69	224.9	170	400	ND (0.5)
NH-C04-560	11/29/2007	99	53	110.4	110	350	ND (0.5)
NH-C05-460	12/4/2007	23	59	542.4	210	400	ND (0.5)

TABLE 2-6
General Water Chemistry - Fourth Quarter 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Chloride (mg/L)	Sulfate (mg/L)	Hardness (mg/L)	Alkalinity, Total (mg/L)	TDS (mg/L)	TOC (mg/L)
NH-C06-160	11/29/2007	52	95	347.4	210	520	0.37 J
NH-C06-285	12/4/2007	36	180	365.2	210	590	ND (0.5)
NH-C06-425	11/29/2007	45.3	420	449.4	180	880	0.43 J
NH-VPB-01	12/12/2007	84	160	461.4	280	670	0.32 J
NH-VPB-02	12/4/2007	47	96	368.4	250	540	0.59
NH-VPB-04	11/28/2007	56	77	303.1	210	460	0.26 J
NH-VPB-05	12/3/2007	54	88	447.7	270	560	0.6
NH-VPB-07	11/27/2007	39	62	517.1	450	680	0.31 J
NH-VPB-08	12/3/2007	31	57	505.8	440	620	ND (0.5)
NH-VPB-10	11/28/2007	29	26	57.7	200	290	1.6
PO-C01-195	12/11/2007	56	82	267.9	200	470	ND (0.5)
PO-C01-354	12/11/2007	200	30	17.4	260	660	0.75
PO-C02-053	12/17/2007	110	200	396.7	180	740	0.68
PO-C02-205	12/17/2007	56	87	273.8	190	470	0.35 J
PO-C03-182	12/13/2007	69	120	290.6	210	520	0.27 J
PO-C03-235	12/13/2007	70	130	597.3	220	580	ND (0.5)
PO-VPB-01	12/20/2007	77.2	136	352.2	190	560	0.32 J
PO-VPB-02	12/11/2007	86	150	410.8	200	640	0.68
PO-VPB-03	12/13/2007	82	150	385.1	200	610	0.43 J
PO-VPB-05	12/20/2007	110	170	681.4	250	670	1
PO-VPB-06	12/20/2007	87	180	323.8	220	640	0.46 J
PO-VPB-07	12/13/2007	120	260	657.7	420	1,100	0.56
PO-VPB-10	12/20/2007	78	77	325.5	170	490	ND (0.5)
VD-VPB-01	12/19/2007	89	140	373.4	160	580	0.43 J
VD-VPB-02	12/19/2007	98	140	373.3	160	620	0.46 J
VD-VPB-03	12/19/2007	130	220	1,003.2	230	820	0.59
VD-VPB-06	12/19/2007	82	150	274.9	110	510	0.48 J
VD-VPB-07	12/19/2007	43 J	97	277.4	190	430	0.37 J

Notes:
ND (250) = not detected (reporting limit)
NR = not reported
mg/L = milligrams per liter
TDS = total dissolved solids
TOC = total organic carbon
J = Approximate concentration

TABLE 2-7
Summary of Select Metals Exceeding MCLs - Fourth Quarter 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

MCL:	**Chromium** 50 µg/L	**Chromium(VI)** 50 µg/L *	**Manganese** 50 µg/L**
Well ID			
CS-C03-100	85.2	92 J	--
CS-C04-520	--	--	58.8
CS-VPB-03	60.4	60 J	--
CS-VPB-04	193	160 J	--
CS-VPB-05	310	320 J	--
NH-C01-660	--	--	53.1
NH-C02-681	--	--	56.5
NH-C06-425	--	--	55.8
PO-C02-205	--	--	209
PO-VPB-02	422	420 J	--

Notes:
µg/L = Micrograms per liter
* Chromium(VI) MCL to be established - currently regulated under the total chromium MCL
** Secondary MCL
J = Approximate concentration

TABLE 2-8
Summary of Chromium(VI) - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Chromium(VI) (µg/L)	Well ID	Sample Date	Chromium(VI) (µg/L)
CS-C01-105	3/13/2007	2.6	CS-C03-550	NS	NS
CS-C01-105	6/22/2007	3.2 J	CS-C03-550	NS	NS
CS-C01-105	NS	NS	CS-C03-550	NS	NS
CS-C01-105	12/12/2007	3.7 J	CS-C03-550	12/17/2007	ND (0.2)
CS-C01-285	3/13/2007	5.7	CS-C04-290	3/22/2007	3.6
CS-C01-285	6/22/2007	5.3 J	CS-C04-290	6/20/2007	ND (0.2)
CS-C01-285	NS	NS	CS-C04-290	9/12/2007	4.4 J
CS-C01-285	12/12/2007	5.2 J	CS-C04-290	12/5/2007	4.1 J
CS-C01-558	NS	NS	CS-C04-382	3/22/2007	2
CS-C01-558	NS	NS	CS-C04-382	6/20/2007	2.2
CS-C01-558	NS	NS	CS-C04-382	9/12/2007	2.1 J
CS-C01-558	11/30/2007	1.3 J	CS-C04-382	12/5/2007	2 J
CS-C02-062	3/14/2007	2.2 J	CS-C04-520	NS	NS
CS-C02-062	6/19/2007	2.2	CS-C04-520	NS	NS
CS-C02-062	9/25/2007	2.1 J	CS-C04-520	NS	NS
CS-C02-062	12/10/2007	2.2 J	CS-C04-520	11/30/2007	ND (0.2)
CS-C02-180	3/14/2007	0.37 J	CS-C05-160	3/16/2007	18 J
CS-C02-180	6/19/2007	0.65	CS-C05-160	6/14/2007	11
CS-C02-180	9/25/2007	0.46 J	CS-C05-160	9/14/2007	22.2
CS-C02-180	12/10/2007	0.38 J	CS-C05-160	12/6/2007	15 J
CS-C02-250	3/14/2007	4.9 J	CS-C05-290	3/16/2007	1.2 J
CS-C02-250	6/19/2007	5.5 J	CS-C05-290	6/14/2007	1.2
CS-C02-250	9/25/2007	5.3 J	CS-C05-290	9/14/2007	1.2 J
CS-C02-250	12/10/2007	5.3 J	CS-C05-290	12/6/2007	1.1 J
CS-C02-335	3/14/2007	4.2 J	CS-C06-185	3/22/2007	1.2 J
CS-C02-335	6/19/2007	6.1 J	CS-C06-185	6/21/2007	1.8 J
CS-C02-335	9/25/2007	5.6 J	CS-C06-185	9/13/2007	1.2 J
CS-C02-335	12/10/2007	6.4 J	CS-C06-185	NS	NS
CS-C03-100	3/13/2007	**81 J**	CS-C06-278	NS	NS
CS-C03-100	6/19/2007	**71 J**	CS-C06-278	NS	NS
CS-C03-100	9/12/2007	**73 J**	CS-C06-278	NS	NS
CS-C03-100	12/10/2007	**92 J**	CS-C06-278	NS	NS
CS-C03-325	NS	NS	CS-VPB-01	3/15/2007	2.3 J
CS-C03-325	NS	NS	CS-VPB-01	6/22/2007	2.6 J
CS-C03-325	NS	NS	CS-VPB-01	9/19/2007	1.4 J
CS-C03-325	12/17/2007	3.3 J	CS-VPB-01	NS	NS
CS-C03-465	NS	NS	CS-VPB-02	NS	NS
CS-C03-465	NS	NS	CS-VPB-02	NS	NS
CS-C03-465	NS	NS	CS-VPB-02	NS	NS
CS-C03-465	NS	NS	CS-VPB-02	11/29/2007	2.5 J

TABLE 2-8
Summary of Chromium(VI) - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Chromium(VI) (µg/L)	Well ID	Sample Date	Chromium(VI) (µg/L)
CS-VPB-03	3/13/2007	**63 J**	NH-C01-450	NS	NS
CS-VPB-03	6/19/2007	**64 J**	NH-C01-450	NS	NS
CS-VPB-03	9/13/2007	**63 J**	NH-C01-450	NS	NS
CS-VPB-03	12/11/2007	**60 J**	NH-C01-450	NS	NS
CS-VPB-04	3/22/2007	**280**	NH-C01-660	NS	NS
CS-VPB-04	6/20/2007	**230**	NH-C01-660	NS	NS
CS-VPB-04	9/12/2007	**183**	NH-C01-660	NS	NS
CS-VPB-04	12/5/2007	**160 J**	NH-C01-660	11/28/2007	0.27 J
CS-VPB-05	3/16/2007	**370 J**	NH-C01-780	NS	NS
CS-VPB-05	6/14/2007	**290**	NH-C01-780	NS	NS
CS-VPB-05	9/14/2007	**350 J**	NH-C01-780	NS	NS
CS-VPB-05	12/6/2007	**320 J**	NH-C01-780	11/28/2007	0.41 J
CS-VPB-06	3/22/2007	8.9 J	NH-C02-220	3/12/2007	4.1 J
CS-VPB-06	6/21/2007	8.8 J	NH-C02-220	6/18/2007	3.1 J
CS-VPB-06	9/13/2007	8.1 J	NH-C02-220	9/17/2007	2.9 J
CS-VPB-06	12/11/2007	7.2 J	NH-C02-220	12/3/2007	3.1 J
CS-VPB-07	3/15/2007	ND (0.2)	NH-C02-325	3/12/2007	1.1 J
CS-VPB-07	6/20/2007	0.4	NH-C02-325	6/18/2007	1.3 J
CS-VPB-07	9/19/2007	0.75 J	NH-C02-325	9/17/2007	0.7 J
CS-VPB-07	12/13/2007	12 J	NH-C02-325	12/3/2007	1.1 J
CS-VPB-08	3/13/2007	2.7 J	NH-C02-520	3/12/2007	1.1 J
CS-VPB-08	6/15/2007	2.6 J	NH-C02-520	6/18/2007	1.5 J
CS-VPB-08	9/12/2007	2.7 J	NH-C02-520	9/17/2007	1.1 J
CS-VPB-08	12/5/2007	2.7 J	NH-C02-520	12/3/2007	1.2 J
CS-VPB-09	3/16/2007	5 J	NH-C02-681	NS	NS
CS-VPB-09	6/14/2007	5.2	NH-C02-681	NS	NS
CS-VPB-09	9/13/2007	5.1 J	NH-C02-681	NS	NS
CS-VPB-09	12/11/2007	5.4 J	NH-C02-681	12/3/2007	ND (0.2)
CS-VPB-10	3/22/2007	1.9 J	NH-C03-380	NS	NS
CS-VPB-10	6/14/2007	2	NH-C03-380	NS	NS
CS-VPB-10	9/13/2007	2 J	NH-C03-380	NS	NS
CS-VPB-10	12/11/2007	1.9 J	NH-C03-380	11/27/2007	0.4 J
CS-VPB-11	3/22/2007	2.1 J	NH-C03-580	NS	NS
CS-VPB-11	6/15/2007	1.4 J	NH-C03-580	NS	NS
CS-VPB-11	9/19/2007	1.9 J	NH-C03-580	NS	NS
CS-VPB-11	12/13/2007	1.4 J	NH-C03-580	11/27/2007	3.7 J
NH-C01-325	3/14/2007	0.34	NH-C03-680	NS	NS
NH-C01-325	6/20/2007	0.21 J	NH-C03-680	NS	NS
NH-C01-325	9/19/2007	0.33 J	NH-C03-680	NS	NS
NH-C01-325	12/12/2007	0.17 J	NH-C03-680	11/27/2007	2.4 J

TABLE 2-8
Summary of Chromium(VI) - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Chromium(VI) (µg/L)	Well ID	Sample Date	Chromium(VI) (µg/L)
NH-C03-800	NS	NS	NH-VPB-02	3/12/2007	3.1 J
NH-C03-800	NS	NS	NH-VPB-02	6/21/2007	3.2 J
NH-C03-800	NS	NS	NH-VPB-02	9/18/2007	3.2 J
NH-C03-800	11/27/2007	1.3 J	NH-VPB-02	12/4/2007	3.2 J
NH-C04-240	3/6/2007	5.8 J	NH-VPB-03	NS	NS
NH-C04-240	6/21/2007	ND (0.2)	NH-VPB-03	NS	NS
NH-C04-240	NS	NS	NH-VPB-03	NS	NS
NH-C04-240	11/29/2007	5.7 J	NH-VPB-03	NS	NS
NH-C04-375	3/6/2007	6.1 J	NH-VPB-04	3/8/2007	2.2 J
NH-C04-375	6/21/2007	6.1 J	NH-VPB-04	6/12/2007	2.1
NH-C04-375	NS	NS	NH-VPB-04	9/25/2007	1.6 J
NH-C04-375	11/29/2007	5.9 J	NH-VPB-04	11/28/2007	1.9
NH-C04-560	NS	NS	NH-VPB-05	3/12/2007	3.4
NH-C04-560	NS	NS	NH-VPB-05	6/18/2007	3.4 J
NH-C04-560	NS	NS	NH-VPB-05	9/17/2007	3.6 J
NH-C04-560	11/29/2007	ND (0.2)	NH-VPB-05	12/3/2007	4.4 J
NH-C05-320	NS	NS	NH-VPB-06	3/8/2007	1.5 J
NH-C05-320	NS	NS	NH-VPB-06	6/20/2007	1.6 J
NH-C05-320	NS	NS	NH-VPB-06	9/10/2007	1.8 J
NH-C05-320	NS	NS	NH-VPB-06	NS	NS
NH-C05-460	3/14/2007	0.22 J	NH-VPB-07	3/8/2007	1.1 J
NH-C05-460	6/20/2007	0.22 J	NH-VPB-07	6/14/2007	1
NH-C05-460	9/19/2007	0.25 J	NH-VPB-07	9/13/2007	0.96 J
NH-C05-460	12/4/2007	0.18 J	NH-VPB-07	11/27/2007	1.1 J
NH-C06-160	3/8/2007	5.9 J	NH-VPB-08	3/12/2007	1.8
NH-C06-160	6/19/2007	6.1 J	NH-VPB-08	6/18/2007	2.3 J
NH-C06-160	9/18/2007	ND (0.2)	NH-VPB-08	9/17/2007	2.3 J
NH-C06-160	11/29/2007	6 J	NH-VPB-08	12/3/2007	2.2 J
NH-C06-285	3/13/2007	3 J	NH-VPB-09	NS	NS
NH-C06-285	6/19/2007	3.4 J	NH-VPB-09	NS	NS
NH-C06-285	9/18/2007	3.2 J	NH-VPB-09	NS	NS
NH-C06-285	12/4/2007	3.3 J	NH-VPB-09	NS	NS
NH-C06-425	NS	NS	NH-VPB-10	NS	NS
NH-C06-425	NS	NS	NH-VPB-10	NS	NS
NH-C06-425	NS	NS	NH-VPB-10	NS	NS
NH-C06-425	11/29/2007	ND (0.2)	NH-VPB-10	11/28/2007	ND (0.2)
NH-VPB-01	3/23/2007	2.5 J	NH-VPB-11	NS	NS
NH-VPB-01	6/22/2007	3.2 J	NH-VPB-11	NS	NS
NH-VPB-01	9/20/2007	2.5	NH-VPB-11	NS	NS
NH-VPB-01	12/12/2007	2.5 J	NH-VPB-11	NS	NS

TABLE 2-8
Summary of Chromium(VI) - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Chromium(VI) (µg/L)	Well ID	Sample Date	Chromium(VI) (µg/L)
NH-VPB-12	NS	NS	PO-VPB-02	3/16/2007	**310 J**
NH-VPB-12	NS	NS	PO-VPB-02	6/15/2007	**310 J**
NH-VPB-12	NS	NS	PO-VPB-02	9/14/2007	**380 J**
NH-VPB-12	NS	NS	PO-VPB-02	12/11/2007	**420 J**
NH-VPB-13	NS	NS	PO-VPB-03	3/15/2007	3 J
NH-VPB-13	NS	NS	PO-VPB-03	6/21/2007	3.1 J
NH-VPB-13	NS	NS	PO-VPB-03	9/20/2007	3.2 J
NH-VPB-13	NS	NS	PO-VPB-03	12/13/2007	3.4 J
NH-VPB-14	NS	NS	PO-VPB-04	NS	NS
NH-VPB-14	NS	NS	PO-VPB-04	NS	NS
NH-VPB-14	NS	NS	PO-VPB-04	NS	NS
NH-VPB-14	NS	NS	PO-VPB-04	NS	NS
PO-C01-195	3/16/2007	0.2 J	PO-VPB-05	NS	NS
PO-C01-195	6/15/2007	0.1 J	PO-VPB-05	NS	NS
PO-C01-195	9/14/2007	0.11 J	PO-VPB-05	NS	NS
PO-C01-195	12/11/2007	ND (0.2)	PO-VPB-05	12/20/2007	ND (0.2)
PO-C01-354	NS	NS	PO-VPB-06	NS	NS
PO-C01-354	NS	NS	PO-VPB-06	NS	NS
PO-C01-354	NS	NS	PO-VPB-06	NS	NS
PO-C01-354	12/11/2007	ND (0.2)	PO-VPB-06	12/20/2007	0.29 J
PO-C02-053	NS	NS	PO-VPB-07	3/16/2007	0.43 J
PO-C02-053	NS	NS	PO-VPB-07	6/15/2007	ND (0.2)
PO-C02-053	NS	NS	PO-VPB-07	NS	NS
PO-C02-053	12/17/2007	1.6 J	PO-VPB-07	12/13/2007	0.11 J
PO-C02-205	NS	NS	PO-VPB-08	3/16/2007	ND (0.2)
PO-C02-205	NS	NS	PO-VPB-08	6/22/2007	0.18 J
PO-C02-205	NS	NS	PO-VPB-08	NS	NS
PO-C02-205	12/17/2007	ND (0.2)	PO-VPB-08	NS	NS
PO-C03-182	NS	NS	PO-VPB-09	NS	NS
PO-C03-182	NS	NS	PO-VPB-09	NS	NS
PO-C03-182	NS	NS	PO-VPB-09	NS	NS
PO-C03-182	12/13/2007	ND (0.2)	PO-VPB-09	NS	NS
PO-C03-235	NS	NS	PO-VPB-10	3/15/2007	6.2 J
PO-C03-235	NS	NS	PO-VPB-10	6/14/2007	6.8
PO-C03-235	NS	NS	PO-VPB-10	9/20/2007	5.6 J
PO-C03-235	12/13/2007	ND (0.2)	PO-VPB-10	12/20/2007	4.5 J
PO-VPB-01	NS	NS	PO-VPB-11	NS	NS
PO-VPB-01	NS	NS	PO-VPB-11	NS	NS
PO-VPB-01	9/20/2007	3.3 J	PO-VPB-11	NS	NS
PO-VPB-01	12/20/2007	3.2 J	PO-VPB-11	NS	NS

TABLE 2-8
Summary of Chromium(VI) - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date	Chromium(VI) (µg/L)
VD-VPB-01	3/9/2007	0.12 J
VD-VPB-01	6/13/2007	ND (0.2)
VD-VPB-01	9/11/2007	ND (0.2)
VD-VPB-01	12/19/2007	0.15 J
VD-VPB-02	3/9/2007	ND (0.2)
VD-VPB-02	6/13/2007	0.19 J
VD-VPB-02	NS	NS
VD-VPB-02	12/19/2007	0.2 J
VD-VPB-03	3/9/2007	0.24 J
VD-VPB-03	6/13/2007	0.2
VD-VPB-03	9/11/2007	0.12 J
VD-VPB-03	12/19/2007	ND (0.2)
VD-VPB-04	NS	NS
VD-VPB-04	NS	NS
VD-VPB-04	NS	NS
VD-VPB-04	NS	NS
VD-VPB-05	3/9/2007	ND (0.2)
VD-VPB-05	6/13/2007	ND (0.2)
VD-VPB-05	9/11/2007	ND (0.2)
VD-VPB-05	NS	NS
VD-VPB-06	3/9/2007	0.2 J
VD-VPB-06	6/13/2007	0.28
VD-VPB-06	9/11/2007	0.22 J
VD-VPB-06	12/19/2007	0.14 J
VD-VPB-07	3/9/2007	ND (0.2)
VD-VPB-07	6/13/2007	ND (0.2)
VD-VPB-07	9/24/2007	ND (0.2)
VD-VPB-07	12/19/2007	ND (0.2)

Notes:

Chromium(VI): MCL to be established - currently regulated under the total chromium MCL
Results greater than the MCL are bolded
ND (250) = Not detected (reporting limit)
NS = Not sampled
µg/L = micrograms per liter
J = Approximate concentration

3.0 2007 Water Quality and Water Level Results

In this section water quality and water level results from each 2007 quarterly sampling event are presented for each of the active Areas (Area 1 – NHOU and BOU; Area 2 – GNOU and GSOU; and Area 4 – Pollock) within the SFV Superfund Sites. As noted in Section 1, Area 3 was removed from the NPL during 2004; however, water quality data are still collected from the RI monitoring wells in the former Area 3 and input into the USEPA's SFV database, and included in this report.

The rationale for the comparison of analytical results from the 2007 quarterly events is explained below. The results of these comparisons, along with the selection of the depth intervals and the approximation of the areal extent of the contamination were used in the development of the VOC and nitrate concentration contour maps for the SFV Superfund Sites.

3.1 Concentration Contour Maps

TCE and PCE are common and widespread in the SFV Basin and approximate the distribution of other VOCs. To evaluate the lateral and vertical distribution of TCE, PCE, and nitrate in the SFV Basin, depth-specific concentration contour maps were created using current data from USEPA's SFV Basin groundwater database. Figure 3-1 presents a map showing the locations of the wells used for preparation of the contour maps, and the contour maps are presented in Figures 3-2 through 3-8. The database includes water quality and water level data for the RI wells, as well as data from local facilities in the SFV, transmitted by the RWQCB and LMC. Data from local groundwater purveyors (LADWP, the Cities of Glendale and Burbank, and CVWD) were also incorporated into the database.

3.1.1 Interval Selection

The depth intervals for the 2007 concentration contour maps are based on: (1) water level data from RI monitoring wells, facility wells, and production wells; (2) screened intervals in monitoring wells, facility wells, and production wells; and (3) concentration values for TCE, PCE, and nitrate from the most recent sampling event for the available RI monitoring wells, facility wells, and landfill wells. The concentrations of TCE, PCE, and nitrate were typically greater in wells with screens at or near the water table, with groundwater contamination generally decreasing with depth. Exceptions to this trend are apparent in the southern portion of Area 1 and an area in the southern portion of the GNOU.

Based on the available data, two sets of depth-specific concentration contour maps were developed based upon wells that are screened: (1) within 50 feet of the water table (Shallow Zone), and (2) more than 50 feet below the water table (Deeper Zone).

Data from production wells are categorized in the same manner as the RI monitoring wells. Production wells with the top of their screened interval within 50 feet of the water table are assumed to be in the Shallow Zone, and wells with the top of their screens greater than 50 feet below the water table are assumed to be in the Deeper Zone. Production well data are posted on the concentration contour maps; however, the concentration of the constituent within the well is

considered only as an indicator on the Shallow Zone maps because the constituents may be diluted by water entering the well screens from deeper intervals that have lower concentrations of the constituents.

3.1.2 Estimated Areal Extent

The depth-specific concentration contour maps combine available water quality data with professional judgment to present an estimate of TCE, PCE, and nitrate distribution in the eastern SFV Basin (Figures 3-2 through 3-7). The figures were prepared by hand-contouring the relative concentration contours onto GIS-generated maps depicting available TCE, PCE, and nitrate values.

Concentrations are based on the available representative data from the RI monitoring wells, facility wells, landfill wells, and production wells incorporated in the SFV database. This set of representative data in the SFV database includes all available "recent" data while also retaining pre-2000 data. The older data are retained at the latest-known value until a more recent replacement value is obtained. These older data points are presented on the concentration contour maps with a different well symbol. Approximately 400 of the 930 monitoring and production wells used in preparation of the concentration contour maps for 2007 were considered older data points (i.e., pre-2000). In Area 1, there are two primary areas where the majority of the older data are located. One area includes the northern and central portions of the NHOU, representing mainly monitoring wells in the vicinity of former North Hollywood landfills and inactive LADWP production wells in their well fields located within the NHOU. The second area extends east and south of the Burbank Airport, representing mainly former facility monitoring wells located in the BOU. In Area 2, there are also two primary areas where older data are located. One area is located in the central and southern portions of the GNOU, representing former facility monitoring wells and former City of Glendale production wells; the other is in the northern portion of the GSOU, representing former facility monitoring wells.

Using the most recently available value, not the maximum or average value, does not significantly affect the interpretations shown in the concentration contour maps as they are developed. However, this method presents the current concentration contour maps as similar to earlier maps in the areas where only older data are available. More significant differences in the current contour maps compared to earlier maps are observed in those areas where recently available data exist.

Because the data incorporated into the SFV database are obtained from various sources with different schedules of sampling, the figures are not a "snapshot in time," but rather represent the most recently available data. As additional data are incorporated into the SFV database from newly installed wells or from older wells that have been re-sampled recently, the interpretation of the "area of detectable concentration" is also re-evaluated.

The estimated direction of groundwater flow is used to assist estimating the shape and size of individual zones of contamination. These parameters are also used for estimating the lateral boundaries, although these boundaries are more readily determined from reported concentration values. The groundwater flow directions are fairly well understood, but the downgradient margins of contamination are not always well-defined.

3.2 Water Levels

Water levels were measured at each RI monitoring well sampled during each 2007 quarterly sampling event. The depth to water below ground surface and groundwater elevations measured at the first, second, third, and fourth quarter 2007 sampling events are provided in Table 2-1. Additionally, these measurements are incorporated into the database, converted to elevations above mean sea level, and presented as hydrographs in Appendix H.

3.2.1 Area 1 – North Hollywood

Comparison of water level elevations between the first quarter of 2007 and the fourth quarter of 2006 in Area 1 (NHOU and BOU) showed slight fluctuations between increases of 1 foot to decreases of one foot across the Area. During the second quarter of 2007 water levels in the vicinity of the Rinaldi-Toluca and Tujunga wellfields of the NHOU showed decreases of on the order of 1 to 2 feet at NH-C01-325, NH-VPB-06 and NH-VPB-07. Water levels in North Hollywood during the third quarter of 2007 showed decreases on the order of 1 to 2 feet compared to the previous quarter, with the exceptions of NH-VPB-02 and NH-VPB-08 (in the vicinity of the NHOU extraction wells) which decreased 3 to 4 feet, and NH-C01-325, NH-VPB-06 and NH-VPB-07 (in the vicinity of Rinaldi-Toluca wellfield) which decreased approximately 3 feet. The effect of below-normal precipitation in 2007 is evident by slight increases of approximately 1 foot across the central portion of Area 1 during the fourth quarter of 2007 compared to the previous quarter.

When compared annually (fourth quarter 2006 vs. fourth quarter 2007), the northern portion of the NHOU of Area 1, the area in the vicinity of the NHOU extraction wells and LADWP's Rinaldi-Toluca production wellfield, are where water levels showed the greatest decreases, on the order of 6 to 8 feet at the NH-C01 and NH-C03 cluster wells as well as NH-VPB-06 and NH-VPB-07. Across the remainder of Area 1, in the BOU area, water level decreases were approximately 1 to 2 feet and/or relatively stable between the 2006 and 2007 annual events.

3.2.2 Area 2 – Crystal Springs

Water levels in Area 2 (GNOU and GSOU) were essentially unchanged during the first and second quarters of 2007, compared to the respective preceding quarters. During the third quarter or 2007, Area 2 water levels showed decreases on the order of 1 to 2 feet compared to the previous quarter consistently over the area. The below-normal precipitation in 2007 is evident during the fourth quarter of 2007 across Area 2, with water levels remaining relatively constant compared to the third quarter.

When compared annually (fourth quarter 2006 vs. fourth quarter 2007), across the majority of Area 2 (GNOU and GSOU) stable water levels or modest decreases of 0.5 to 1 foot were observed.

3.2.3 (Former) Area 3 – Verdugo

As noted above, Area 3 was removed from the NPL during 2004. However, water quality data are still collected from the Area 3 RI monitoring wells and input into the USEPA's SFV database.

First quarter 2007 water levels in the former Area 3 decreased approximately 2 to 3 feet compared to the previous quarter. This decrease in water levels continued during the second, third and fourth quarters, with decreases on the order 1 to 5 feet per quarter reported.

Annual (fourth quarter 2006 vs. fourth quarter 2007) decreases in water levels ranging between 4 and 16 feet were evident in the northern and central portions of the Verdugo Basin. However, in the southern portion of the basin, where groundwater enters the SFV Basin, water levels at VD-VPB-03 were constant throughout the year.

3.2.4 Area 4 – Pollock

As in Area 2, water levels in Area 4 (Pollock) were essentially unchanged during the first quarter of 2007 compared to the preceding quarter. Unlike Area 2, however, Area 4 water levels were also essentially unchanged during the second and third quarters of 2007 as well. In the fourth quarter, the water levels remained relatively constant Across Area 4 compared to the third quarter, with only slight decreases in the southern portion of Area 4.

When compared annually (fourth quarter 2006 vs. fourth quarter 2007), water levels across Area 4 were stable with the exception of minor fluctuations at monitoring wells PO-VPB-03 and PO-VPB-07 in the southern portion of the area (in the vicinity of LADWP's Pollock Water Treatment Plant).

3.3 Analytical Results

The contaminants of primary concern in each of the Areas within the SFV Superfund Sites include TCE, PCE and chromium. Nitrate is also present in groundwater in excess of the MCL as a result of past agricultural and sewage disposal practices in the SFV, but is not targeted for treatment as part of the interim remedies for the NHOU, BOU, or GNOU and GSOU. To evaluate the lateral and vertical distribution of TCE, PCE, and chromium in the SFV, depth-specific concentration contour maps were created following the rationale discussed in Section 3.1.

The Shallow Zone and Deeper Zone contour maps (Figures 3-2 to 3-7) are based on the available representative data from the RI monitoring wells, facility wells, landfill wells, and production wells incorporated in the SFV database. These figures represent the most recently available data in the SFV database for each depth interval. The Shallow Zone chromium contour map (Figure 3-8) depicts dissolved chromium contamination in the Shallow Zone based on available data between 2003 and 2007. This figure was developed for support of USEPA's ongoing investigation into potential sources of chromium contamination within the SFV Superfund Site OUs.

3.3.1 Area 1 – North Hollywood

There are 34 USEPA RI monitoring wells (20 cluster wells and 14 vertical profile borings [VPBs]) in the NHOU and BOU areas of Area 1. Included in the Area 1 analysis presented here are all of the North Hollywood (NH-) RI monitoring wells, with the exception of the cluster wells at NH-C04 and NH-C06 and 3 VPBs (NH-VPB01, NH-VPB12 and NH-VPB-14). During the time between the RI and finalization of individual Area RODs, these RI monitoring wells were included with characterization of Area 2 instead of Area 1. During one or more of the 2007

quarterly sample events, six of the RI monitoring wells were not sampled due to inadequate water levels for pump submergence, inoperable pump, removal of the pump, or surface obstructions.

3.3.1.1 TCE and PCE

TCE concentrations greater than the MCL of 5 µg/L were detected at 9 Area 1 RI monitoring wells during one or more of the 2007 sample events. TCE was not detected at 5 of the Area 1 monitoring wells, with the remaining 5 monitoring wells having concentrations between the CRQL and the MCL. The maximum concentration of TCE in Area 1 during 2007 was consistently detected at monitoring well NH-C05-460 (increasing from 81 µg/L during the first quarter to 110 µg/L in the fourth quarter). Table 2-4 summarizes TCE and PCE groundwater monitoring well data from each quarterly sample event during 2007.

TCE concentrations in the NHOU have generally remained constant or slightly increased during the course of 2007. In the southern portion of Area 1 (BOU), TCE concentrations remained relatively constant as shown at NH-VPB-05 and the NH-C02 cluster wells located south of the Burbank Airport.

PCE concentrations greater than the MCL of 5 µg/L were detected at 3 Area 1 RI monitoring wells during one or more of the 2007 sample events. PCE was not detected at 3 Area 1 monitoring wells, with the remaining 13 monitoring wells having concentrations between the CRQL and the MCL. The maximum concentration of PCE in Area 1 during 2007 was detected at monitoring well NH-C01-325 (37 µg/L during the second quarter sample event).

Shallow Zone. For 2007 the areas within the 5 µg/L (MCL) concentration contour for both TCE and PCE encompass the southern and western portions of Area 1 (NHOU and BOU). These areas are generally similar to the areal coverage estimated in previous concentration contour maps (Figures 3-2 and 3-3).

Area 1 contains three Shallow Zone TCE plume areas where concentrations exceed 100 µg/L, similar to previous years (see Figure 3-2). The first of these plume areas begins east of the Burbank Airport and continues for approximately 2 miles (approximately 1 mile wide at its widest point) to the southern boundary of the BOU, and then continues into the GNOU of Area 2. Beginning in the locale of the LMC former B-6 plant area, and including several current and former facilities areas, the contaminant plume extends in a southeasterly direction toward the former LMC B-1 plant area. This area also includes the former LMC A-1 area, immediately south of the Burbank Airport. Recently available data (December 2007) for facility monitoring wells north of the BOU extraction wells indicate several isolated areas within the TCE plume where concentrations exceed 500 µg/L to the east and southeast of the Burbank Airport (3850M with 1,550 µg/L, V14WBRS6 with 670 µg/L, LA1-CW07 with 688 µg/L, and 3850N with 590 µg/L). South of the BOU extraction wells the Shallow Zone TCE plume area greater than 500 µg/L is comparable to the area presented on the 2006 TCE concentration map (CH2M HILL, 2007).

A second separate Shallow Zone TCE plume area where concentrations exceed 100 µg/L is located in the vicinity of the former LMC C-1 plant area at the western end of the Burbank Airport (see Figure 3-2). The results of additional sampling indicate that this portion of the Shallow Zone plume appears to extend in a more southeasterly direction and is slightly larger when compared to the 2006 concentration contour maps. During 2007, in this portion of the Shallow Zone TCE plume

concentrations of 613 µg/L, 400 µg/L and 180 µg/L were detected at monitoring wells LC1-CW06, 3830S and 3831Q, respectively.

The third area of Shallow Zone TCE concentrations greater than 100 µg/L occurs in the vicinity of the Honeywell facility near the North Hollywood Treatment Facility. This western Shallow Zone TCE plume area is generally distributed in two sub-areas of higher concentration along the axis of the NHOU extraction well system, with the concentrations decreasing to the south of the extraction wells.

Although not exceeding 100 µg/L, as in the previously mentioned portions of the Shallow Zone TCE plume, an additional area of TCE concentrations exceeding the 5 µg/L MCL is present in the central portion of Area 1. This area is in the vicinity of several former landfills where 2007 groundwater data were obtained at the request of USEPA, and RWQCB has furthered the assessment of the character and extent of this portion of the Shallow Zone TCE contaminant plume.

Shallow Zone PCE concentrations in the eastern portion of Area 1 exceed 100 µg/L in the same general areas as described above for Shallow Zone TCE. North of the BOU extraction well system Shallow Zone PCE concentrations exceeding 1,000 µg/L are detected in several isolated areas. At monitoring wells 3860K, 3850M and 3850W, PCE concentrations of 5,500, 4,370 and 1,570 µg/L, respectively, were observed. Slightly northeast of the Burbank Airport in the vicinity of the former LMC B6 plant area and several former facilities, Shallow Zone PCE concentrations of 1,200, 1,100, 280 and 100 µg/L were detected at monitoring wells V14CRNW5, V14CRNW2, LB6-CW10 and LB6-CW17, respectively. Southeast of the Burbank Airport at monitoring wells LA1-CW07 and LB1-CW13, recent PCE concentrations were 712 and 699 µg/L, respectively.

There is a portion of the Shallow Zone PCE plume where concentrations exceeding 100 µg/L were detected in the vicinity of the LMC C1 and B5 plant areas, at the western end of the Burbank Airport. Monitoring well LC1-CW08 had a concentration of 122 µg/L during December 2007. In general, this portion of the Shallow Zone PCE plume was comparable to concentrations detected during 2006, with the exception of the area exceeding the 5 µg/L MCL extending slightly further southeast in 2007.

In the western portion of Area 1, in the vicinity of the North Hollywood Treatment Facility, Shallow Zone PCE concentrations exceed the MCL in three small localized areas (see Figure 3-3). One of these Shallow Zone PCE plume areas trends along the axis of the NHOU extraction wells, downgradient from the Honeywell facility, where concentrations greater than 50 µg/L are detected. A second isolated area is indicated in the vicinity of the former Hewitt landfill, where 14, 13 and 5.2 µg/L of PCE were reported at wells 4909F, 4909C and 4899, respectively, during 2007. The third small area is centered near NH-VPB-02, which had a 2007 PCE concentration of 5.4 µg/L.

Similar to the above description for TCE, a fourth localized Shallow Zone PCE plume where concentrations exceeding the 5 µg/L MCL were detected is present in the central portion of Area 1, in the vicinity of several former landfills. 2007 PCE concentrations at monitoring wells 4918B and NH-C01-325 (31 and 6.3 µg/L, respectively) and monitoring wells 4928C and 4928B (10.3 and 5.0 µg/L, respectively) indicate two separate southeasterly trending lobes within this area in this vicinity.

Deeper Zone. As discussed above, the concentrations of TCE and PCE generally decrease with depth (Figures 3-5 and 3-6). However, data for TCE and PCE from the Deeper Zone are more

limited. The portions of Area 1 where Deeper Zone concentrations of TCE and PCE exceeded 5 µg/L in 2007 were similar to what was observed during 2006, and they generally underlie the areas of contamination in the Shallow Zone (described above).

Area 1 contains several prominent Deeper Zone TCE plume areas where concentrations exceed 5 µg/L, similar to the 2006 concentration contour map (see Figure 3-5). The first of these Deeper Zone TCE plume areas underlies the Shallow Zone contamination detected to the southeast of the Burbank Airport, trending along the axis of the BOU's extraction well system. A second portion of the Deeper Zone TCE plume is concentrated near the North Hollywood Treatment Facility and trends along the axis of the NHOU extraction wells. Smaller, isolated areas of TCE contamination in the Deeper Zone exceeding the MCL of 5 µg/L are located in the vicinity of LADWP's production well fields. In the Tujunga well field 2007 TCE concentrations of 20.6 and 18.6 µg/L were reported at production wells 4887H and 4887J, respectively. In the vicinity of the Rinaldi-Toluca well field the 2007 Deeper Zone TCE concentration at NH-C05-460 increased to 110 µg/L from 69 µg/L, and the concentration at production well 4909G was reported at 16.8 µg/L. South of the NHOU extraction wells, Deeper Zone TCE concentrations exceeding the MCL were also reported in production wells in the Whitnall and Erwin wellfields (3821E [WH5] with 6.16 µg/L and 3821H [EW-6] with 7.23 µg/L).

In Area 1 during 2007, the portions of the Deeper Zone PCE plume where concentrations exceed 5 µg/L were similar in total area to the area observed during 2006. The portions of the Deeper Zone PCE plume with the highest concentrations are located east (former LMC B6 area) and southeast (former LMC A1 and B1 areas) of the Burbank Airport, in the vicinity of the BOU extraction well field (see Figure 3-6). BOU extraction wells 3861G and 3861L each reported PCE concentrations of 201 µg/L in 2007. Recent data indicate that the localized Deeper Zone PCE plume areas in the vicinity of the NHOU extraction well system are now below 50 µg/L. The portion of Deeper Zone PCE contamination exceeding 5 µg/L near the Rinaldi-Toluca and Tujunga well fields was similar in 2007 to what was observed in 2006.

3.3.1.2 Other VOCs

Concentrations of 1,1-dichloroethane (DCA), 1,2-DCA, 1,1-dichloroethene (DCE), carbon tetrachloride, cis-1,2-DCE, and benzene have occasionally been reported to exceed the MCLs for these compounds in Shallow Zone groundwater samples from Area 1. These other VOCs typically occur in the same areas as TCE and PCE in Area 1, albeit at lower concentrations that are mostly below the MCLs. Therefore, maps depicting concentrations of these other VOCs have not been developed.

During 2007, carbon tetrachloride at monitoring wells NH-C02-220, NH-C02-520 and NH-VPB-05 was the only additional VOC to be reported exceeding its MCL in Area 1 (Table 3-1). Comparison of quarterly concentrations remained relatively consistent at NH-C02-220 and NH-VPB-05, with maximum concentrations of 2.3 µg/L and 5.6 µg/L, respectively. A single detection of carbon tetrachloride during the first quarter was observed at NH-C02-520.

3.3.1.3 Nitrate

Nitrate has been consistently detected in monitoring and extraction wells in the NHOU and BOU portions of Area 1 at concentrations greater than the MCL of 45 mg/L as NO_3. During 2007, nitrate concentrations exceeding the MCL were observed at 7 RI monitoring wells (see Table 2-5), with a maximum concentration of 111.3 mg/L at NH-C01-325 during the third quarter event.

Shallow Zone. Figure 3-4 presents the Shallow Zone area where nitrate concentrations are observed to exceed the MCL. There are several isolated, somewhat elongated areas located in the western portion of the NHOU and the central and southern portions of the BOU. Recent data show that nitrate contamination in the BOU south of the Burbank Airport appears to be slightly less than that observed during previous years. In the NHOU, the areas of nitrate contamination north and southwest of the North Hollywood Treatment Facility appear consistent with the areas previously observed.

Deeper Zone. Nitrate contamination in the Deeper Zone of Area 1 is limited to four small isolated areas (see Figure 3-7). All are located in the BOU; the westernmost areas is in the vicinity of the NH-C02 cluster wells, south of the Burbank Airport; two of the areas are located near the former LMC B6 area east of the Burbank Airport; and the fourth area is near the former LMC B1 area at the eastern end of the BOU extraction wells.

3.3.1.4 Metals

Several metals have been detected at RI monitoring wells in the NHOU and BOU portions of Area 1; however, only manganese reported at NH-C01-660 and NH-C02-681 exceeded its secondary MCL (50 µg/L). Most observations of metal concentrations are generally flagged as estimated or slightly above the detection limit.

Although chromium(VI) is a significant concern at several facility monitoring wells within the NHOU and BOU; during 2007, chromium(VI) concentrations at Area 1 RI monitoring wells were all below 5 µg/L. Chromium(VI) was not detected at two of the Area 1 monitoring wells, with 17 RI monitoring wells having concentrations between the CRQL (0.2 µg/L) and the maximum observed concentration of 4.4 µg/L at NH-VPB-05 during the fourth quarter sample event.

3.3.1.5 Other Analytical Parameters

During the 2007 fourth quarter sampling event, groundwater was analyzed for general water chemistry parameters including chloride, sulfate, total alkalinity, TDS, and TOC (Table 2-6). The secondary MCL (500 mg/L) for TDS was exceeded in 6 Area 1 RI monitoring wells, with a maximum concentration of 680 mg/L at NH-VPB-07. Total alkalinity ranged from 160 mg/L (NH-C02-681 and NH-C03-800) to a high of 450 mg/L at NH-VPB-07. All Area 1 RI monitoring wells were below the secondary MCL (250 mg/L) for sulfate.

3.3.2 Area 2 – Crystal Springs

There are 42 USEPA RI monitoring wells (26 cluster wells and 16 VPBs) in the GNOU and GSOU portions of Area 2. In addition to these Crystal Springs (CS-) RI monitoring wells, the Area 2 analysis incorporates thirteen additional RI monitoring wells, including nine North Hollywood (NH-) RI monitoring wells in the vicinity of the northern boundary of Area 2 (NH-C04 and NH-C06 cluster wells and NH-VPB-01, -12, and -14) and four Pollock (PO-) RI monitoring wells in the vicinity of the Area 2 southern boundary (PO-C01 cluster wells and PO-VPB-02 and PO-VPB-10). During one or more of the 2007 quarterly sample events, five of the Area 2 RI monitoring wells were not sampled due to inadequate water levels for pump submergence, inoperable pump, removal of the pump, or surface obstructions.

3.3.2.1 TCE and PCE

TCE concentrations greater than the MCL were observed at 24 Area 2 RI monitoring wells during one or more of the 2007 sample events. TCE was not detected at 9 of the Area 2 monitoring wells, with the remaining 4 monitoring wells having concentrations between the CRQL and the MCL. The maximum concentration of TCE in Area 2 during 2007 was consistently observed at monitoring well CS-VPB-04 (decreasing from 3,000 µg/L during the first quarter to 2,000 µg/L in the fourth quarter). Eleven monitoring wells (5 cluster wells and 6 VPBs) were observed with TCE concentrations exceeding 100 µg/L during all four quarterly sample events. Table 2-4 summarizes TCE and PCE groundwater monitoring well data from each quarterly sample event during 2007.

TCE concentrations in the GNOU portion of Area 2 have slightly increased or remained generally constant during the course of 2007. Near the western edge of Area 2, NH-C06-285 increased from 68 µg/L to 78 µg/L during the course of the year. In the central portion of Area 2, slight increases in the TCE concentrations were observed in the CS-C01 and CS-C02 cluster wells and in CS-VPB-01, while concentrations in the RI monitoring wells in the I-5 corridor area (CS-C03, CS-C04, and CS-C05 cluster wells) remained relatively constant, varying by less than 17% relative percent difference between the first and fourth quarters of 2007.

In the GSOU, TCE concentrations remained relatively constant or slightly declined as shown at the CS-C06 and PO-C01 cluster well locations in the LA River narrows area.

PCE concentrations greater than the MCL of 5 µg/L were observed at 24 Area 2 RI monitoring wells during one or more of the 2007 sample events. PCE was not detected at 8 Area 2 monitoring wells, with the remaining 5 monitoring wells having concentrations between the CRQL and the MCL. The maximum concentration of PCE in Area 2 during 2007 was observed at monitoring well CS-VPB-08 (380 µg/L during the third quarter sample event).

PCE concentrations in the GNOU remained generally constant during the course of 2007, with the exception of a small area in the vicinity of CS-VPB-01 and CS-VPB-08, where the PCE concentrations increased slightly. In the GSOU, PCE concentrations remained relatively constant with the exception of the vicinity around the PO-C01 cluster well locations in the L.A. River narrows area.

Shallow Zone. The portions of Area 2 that are within the 5 µg/L (MCL) concentration contour for TCE during 2007 are similar to the areal coverage estimated in previous concentration contour maps.

Area 2 contains several areas where concentrations of Shallow Zone TCE exceed 100 µg/L (Figure 3-2). These distinct portions of Area 2 are similar in orientation to what has been observed in previous years, with the largest of these areas representing a continuation of the TCE plume originating upgradient in Area 1 extending approximately 3 miles southeasterly to a point immediately south of the GNOU extraction well system near the Glendale Treatment Plant. In addition to this portion of the Shallow Zone TCE plume there is an additional elongated area with Shallow Zone TCE concentrations exceeding 100 µg/L extending along the I-5 corridor. Within the I-5 corridor there are several smaller Shallow Zone TCE plume areas where concentrations over 1,000 µg/L have been reported in the vicinity of RI monitoring wells (CS-C03-100 with 1,100 µg/L and CS-VPB-04 with 2,100 µg/L) and facility monitoring wells associated with former industrial facilities (ITT-MW11 with 2,700 µg/L, ITT-MW20 with 1,500 µg/L and ITT-ENV4 with

1,500 µg/L). These two distinct, elongated Shallow Zone TCE plume areas of higher concentrations merge in the vicinity of the Los Angeles River Narrows, forming a single plume extending past the Glendale Treatment Plant.

An additional portion of Area 2 where Shallow Zone TCE concentrations exceed 50 µg/L occurs in the central and southern portions of the GSOU. Recent data indicate that this area is apparently separate from the larger extended area described above. North of the Glendale South extraction wells, several distinct areas where Shallow Zone TCE concentrations exceed 100 µg/L occur in the vicinity of former facilities. Recent TCE data in the vicinity of the Drilube facility exceed 1,000 µg/L (DRC-MW3 with 1,400 µg/L) and exceed 50 µg/L in the vicinity of the PRC-Desoto and A.G. Layne facilities (CAI-MW8 with 51 µg/L and AGL-W1 with 434 µg/L, respectively).

The 2007 Shallow Zone PCE concentrations exceeding 100 µg/L in Area 2 follow trends similar to the areas of higher Shallow Zone TCE concentrations (see Figure 3-3). Also comparable with previous years' observations, the majority of the areas of higher Shallow Zone PCE concentration are consistent with the areas of elevated Shallow Zone PCE concentrations observed during the previous year. Additional monitoring wells installed in the vicinities of the former ITT facility (now a Home Depot), the PRC-Desoto facility, and the former Excello Plating Co. facility have provided data that enable a better understanding of Shallow Zone PCE contamination within Area 2. Data from monitoring wells at the former All Metals facility, immediately northwest of the Glendale North extraction well system, have improved delineation of this potentially contaminated area, indicating two separate areas exceeding 100 µg/L that merge near GNOU extraction wells GN-1 and GN-2.

An additional area where Shallow Zone PCE concentrations exceed 100 µg/L is observed in the southwestern portion of Area 2 (GSOU), consistent with the area observed for Shallow Zone TCE contamination described above. The installation of additional monitoring wells in the vicinity of the former Excello Plating facility, at the request of RWQCB, has allowed refinement of the identified areas of contamination.

Deeper Zone. The 2007 data show that Area 2 contains several smaller, isolated areas where concentrations of Deeper Zone TCE exceed 5 µg/L. These portions of the Deeper Zone TCE plume were similar in orientation to those observed during 2006, trending southeasterly and conforming generally to the areas of Shallow Zone contamination (see Figure 3-5). In the western part of the GNOU, the Deeper Zone TCE concentration at NH-C06-285 increased slightly to 82 µg/L. In the southern portion of Area 2 (GSOU), isolated areas of Deeper Zone contamination conformed generally to the Shallow Zone contamination and were also similar in orientation and magnitude to those observed during 2006.

The portions of Area 2 where Deeper Zone PCE concentrations exceeded 5 µg/L during 2007 are consistent with the areas for Deeper Zone TCE described above (see Figure 3-6). Differences between these portions of the Deeper Zone PCE plume are minor, when compared to the observations from previous years. Deeper Zone PCE concentrations in the smaller, isolated portion of the Deeper Zone PCE plume in the southern portion of Area 2 were also comparable in size and concentration to observations during 2006.

3.3.2.2 Other VOCs

Concentrations of 1,1-DCA, 1,2-DCA, 1,1-DCE, carbon tetrachloride, cis-1,2-DCE, and benzene have occasionally been reported to exceed the MCLs for these compounds in Shallow Zone

groundwater samples from Area 2. These other VOCs typically occur in the same areas as Shallow Zone TCE and PCE, albeit at lower concentrations mostly below the MCLs. Therefore, maps depicting concentrations of these other VOCs have not been developed.

During 2007, carbon tetrachloride was the most prevalent additional VOC detected across Area 2, with concentrations exceeding the 0.5 µg/L MCL at 13 RI monitoring wells (Table 3-1). Two RI monitoring wells (CS-C03-100 and CS-VPB-05) had DCA, 1,2-DCA, DCE and cis-1,2-DCE detected above the respective MCLs, in addition to carbon tetrachloride. CS-VPB-04 had DCA, DCE and cis-1,2-DCE detected above the respective MCLs, in addition to carbon tetrachloride. Two RI monitoring wells (CS-VPB-03 and PO-VPB-02) only had DCE detected above the 6.0 µg/L MCL.

3.3.2.3 Nitrate

In the GNOU and GSOU, nitrate has been consistently detected in monitoring and extraction wells at concentrations greater than the MCL of 45 mg/L. During 2007, nitrate concentrations exceeding the MCL were detected at 12 RI monitoring wells (see Table 2-5) in Area 2, with a maximum concentration of 75.6 mg/L at NH-C06-160 during the first quarter event.

Shallow Zone. In the Shallow Zone of Area 2, there are several isolated, somewhat elongated areas of nitrate concentration exceeding the nitrate MCL across the central portion of the GNOU and throughout the GSOU. These Shallow Zone plume areas are the continuation of the Shallow Zone nitrate observed in the southern portion of the BOU, and are similar to those observed in previous years.

Deeper Zone. In the Deeper Zone, there were few detections of nitrate contamination above the MCL throughout Area 2. One isolated Deeper Zone nitrate area is located near the NH-C06 cluster wells, and another one exists in the vicinity of the CS-C04 cluster wells (Figure 3-7).

3.3.2.4 Metals

In the GNOU and GSOU, several metals have been detected at RI monitoring wells during 2007; however, only manganese and chromium exceeded the MCL. Chromium exceeding the MCL of 50 µg/L was reported at 5 Shallow Zone RI monitoring wells (CS-C03-100, CS-VPB-03, CS-VPB-04, CS-VPB-05 and PO-VPB-02). Manganese exceeding the secondary MCL of 50 µg/L was reported in two Deeper Zone RI monitoring wells (NH-C06-425 and CS-C04-520). Most other observations of metal concentrations are generally flagged as estimated or slightly above the detection limit.

Chromium(VI) is a significant concern across the GNOU and GSOU. During 2007, chromium(VI) concentrations above 5 µg/L were reported at 14 Shallow Zone RI monitoring wells. Five of these Shallow Zone monitoring wells, the same wells exceeding chromium above, reported concentrations exceeding 50 µg/L. The maximum observed concentration of chromium(VI) in Area 2 was 420 µg/L at PO-VPB-02 during the fourth quarter sample event. Chromium(VI) was not detected at 7 of the Area 2 monitoring wells, with 17 RI monitoring wells having concentrations between the CRQL (0.2 µg/L) and 5.0 µg/L.

3.3.2.5 Other Analytical Parameters

Area 2 groundwater samples were analyzed for general water chemistry parameters including chloride, sulfate, total alkalinity, TDS, and TOC during the 2007 fourth quarter sampling event

(Table 2-6). The secondary MCL (500 mg/L) for TDS was exceeded in 21 Area 2 RI monitoring wells, with a maximum concentration of 1,200 mg/L at CS-VPB-09. Total alkalinity ranged from 110 mg/L (NH-C04-560) to a high of 530 mg/L at CS-VPB-09. Two RI monitoring wells (CS-C02-180 with 310 mg/L and NH-C06-425 with 420 mg/L) exceeded the secondary MCL (250 mg/L) for sulfate.

3.3.3 (Former) Area 3 – Verdugo

As noted above, Area 3 was removed from the NPL during 2004. However, water quality data are still collected from the Area 3 RI monitoring wells and input into the USEPA's SFV database. Data from 2007 indicate that concentrations of TCE and PCE were below the MCLs, with the maximum detection for PCE of 2.9 µg/L reported during December 2006 at VD-VPB-02.

Nitrate contamination at levels below the MCL is also evident in the Verdugo Area similar to the areas observed in previous years. This area generally extends from the northern boundary to the southern boundary of the former NPL site.

3.3.4 Area 4 – Pollock

In Area 4, the Pollock area, there are 14 USEPA RI monitoring wells (4 cluster wells and 10 VPBs). Three of the VPBs (PO-VPB-04, -09, and -11) were completed in bedrock during the RI and subsequently never included with the monitoring well program. One (PO-VPB-08) of the remaining 11 RI monitoring wells was not sampled during one or more of the quarterly events of 2007 due to an inoperable pump.

3.3.4.1 TCE and PCE

TCE concentrations greater than the MCL were observed at 3 Area 4 RI monitoring wells during one or more of the 2007 sample events. TCE was not detected at 4 of the Area 4 monitoring wells, with the remaining monitoring wells having concentrations between the CRQL and the MCL. The maximum concentration of TCE in Area 4 during 2007 was consistently observed at monitoring well PO-VPB-07 (increasing from 41 µg/L during the first quarter to 150 µg/L in the fourth quarter). Monitoring well PO-VPB-08 also had detected concentrations of TCE exceeding the MCL during the first (7.3 µg/L) and second (6.7 µg/L) quarter sample events, prior to the pump becoming inoperable. Table 2-4 summarizes TCE and PCE groundwater monitoring well data from each quarterly sample event during 2007.

PCE concentrations greater than the MCL were observed at two Area 4 RI monitoring wells (PO-VPB-03 and PO-VPB-08) during one or more of the 2007 sample events. PCE was not detected at two Area 4 monitoring wells, with the remaining monitoring wells having concentrations between the CRQL and the MCL. The maximum concentration of PCE in Area 4 during 2007 was observed at monitoring well PO-VPB-03 (6.5 µg/L during the first quarter sample event).

Shallow Zone. The portions of Area 4 that are within the 5 µg/L (MCL) concentration contour for TCE during 2007 are similar to the area within the Shallow Zone TCE plume area described during previous reports.

In Area 4, Shallow Zone TCE concentrations exceeding the MCLs occur in three small, apparently separate areas: one area is directly east of LADWP's Pollock Treatment Plant where

the Shallow Zone TCE concentration at PO-VPB-07 has increased to 150 µg/L; a second isolated area, in the vicinity of PO-VPB-03 with 12 µg/L, is slightly northwest of the Pollock Treatment Plant; and a third area extends through the former Taylor Yard area, south of the Pollock Wellfield (see Figure 3-2). Although several of the monitoring wells in the former Taylor Yard area have been destroyed due to redevelopment, in general the areas of Shallow Zone TCE concentration and orientation are comparable to the areas exceeding the MCL for TCE in 2006.

Shallow Zone PCE concentration data from 2007 in the former Taylor Yard area indicate that the total area of potential contamination is similar to what was observed previously; however, at the southernmost RI monitoring well, PO-VPB-08, the Shallow Zone PCE concentration exceeded the MCL during the first quarter (prior to the pump becoming inoperable).

Deeper Zone. In Area 4, Deeper Zone concentrations of TCE and PCE in excess of the MCL are detected in a single, isolated area in the vicinity of the Pollock Treatment Plant, north of the former Taylor Yard (see Figures 3-5 and 3-6). Production well 3958H (P-6) had reported TCE and PCE concentrations of 12.4 and 12.6 µg/L, respectively. This localized area is similar to the area detected in the Shallow Zone described above and is consistent with the areas observed in previous years.

3.3.4.2 Other VOCs

There were no other VOCs that were reported exceeding the MCLs in Area 4 during 2007.

3.3.4.3 Nitrate

In Area 4 nitrate has been detected in monitoring and extraction wells at concentrations greater than the MCL of 45 mg/L. During 2007, nitrate concentrations exceeding the MCL were detected at 5 RI monitoring wells (see Table 2-5) in Area 4, with a maximum concentration of 89.0 mg/L at PO-VPB-07 during the fourth quarter event.

Shallow Zone. In the Shallow Zone of Area 4, the area of nitrate contamination in the Pollock Area extends from the boundary of the GSOU to the approximate location of the Pollock Wellfield. This area is similar to the area observed during the previous years.

Deeper Zone. In Area 4, there were no RI monitoring wells with Deeper Zone nitrate contamination detected above the MCL. The maximum concentration of Deeper Zone nitrate was 32.5 mg/L at PO-C03-182, north of the Pollock Treatment Plant.

3.3.4.4 Metals

In Area 4, the only metal besides chromium to exceed its primary or secondary MCL was manganese at PO-C02-205 (209 µg/L), located at the southern boundary of the former Franciscan Ceramics facility.

During 2007, one Area 4 RI monitoring well, PO-VPB-10, reported a chromium(VI) concentration above 5 µg/L (6.2 µg/L). Six Area 4 monitoring wells reported concentrations between the CRQL (0.2 µg/L) and 5.0 µg/L, and chromium(VI) was not detected at 3 of the Area 4 monitoring wells.

3.3.4.5 Other Analytical Parameters

Area 4 groundwater samples were analyzed for general water chemistry parameters including chloride, sulfate, total alkalinity, TDS, and TOC during the 2007 fourth quarter sampling event (Table 2-6). The secondary MCL (500 mg/L) for TDS was exceeded in 8 Area 4 RI monitoring wells, with a maximum concentration of 1,100 mg/L at PO-VPB-07. Total alkalinity ranged from 180 mg/L (PO-C02-053) to a high of 420 mg/L at PO-VPB-07. One RI monitoring well (PO-VPB-07 with 260 mg/L) exceeded the secondary MCL (250 mg/L) for sulfate.

3.4 Summary of 2007 Activities

3.4.1 Observations and General Trends

Reported concentrations of TCE and PCE contamination between the first and fourth quarters of 2007 remained relatively stable across Areas 1, 2 and 4 of the SFV Superfund Site, with the following exceptions:

Area 1

- Shallow Zone TCE concentrations at monitoring wells NH-VPB-06 and -08 (western portion of NHOU) have consistently increased. However, NH-VPB-06 was not sampled during the fourth quarter due to lack of pump submergence.
- Deeper Zone TCE contamination increased in the western portion of the NHOU at NH-C05-460 (81 µg/L to 110 µg/L). At one additional Deeper Zone monitoring well (NH-C03-580), TCE and PCE were detected exceeding the MCL (10 µg/L and 11 µg/L, respectively) during the fourth quarter sample event. This monitoring well was in the annual sampling program and only sampled once during 2007.

Area 2

- CS-VPB-01 (central portion of the GNOU) had increases in Shallow Zone TCE and PCE concentrations during 2007.
- In the Deeper Zone of the GNOU, a slight increase (68 to 78 µg/L) in TCE concentration was reported at NH-C06-285.
- In the northeastern portion of the GSOU, at monitoring well CS-VPB-10, PCE concentrations decreased slightly (28 to 23 µg/L) while TCE concentrations remained relatively stable (12 to 11 µg/L).
- Shallow Zone TCE concentration at CS-VPB-06 (northern portion of GSOU) decreased slightly (190 to 160 µg/L); however, the TCE and PCE concentrations at the adjacent CS-C06 cluster wells remained relatively stable.

Area 4

- Shallow Zone TCE concentration at PO-VPB-07 (northern portion of Pollock area) increased significantly from 41 to 150 µg/L during 2007.

3.4.2 Area of VOC Plumes Exceeding MCLs

Shallow Zone. Concentration contours in the Shallow Zone are based on the most recent available TCE and PCE data (Figures 3-2 through 3-3). For 2007, the areas within the 5 µg/L (MCL) concentration contour for both TCE and PCE are generally similar to the areal coverage estimated in previous concentration contour maps. For both TCE and PCE, this area encompasses the southern and western portions of Area 1 (NHOU and BOU), a centralized corridor corresponding to the industrialized area along the I-5 corridor through Area 2 (GNOU and GSOU), and the central portion of Area 4 (Pollock). Approximately 19 square miles of the eastern SFV are impacted by the Shallow Zone contaminant plume, which is 17 miles in length and 2.6 miles wide at its widest.

Additional details of the Shallow Zone TCE and PCE concentration contour maps are located in Appendices F and G, respectively. These appendices present each Shallow Zone concentration contour map with well locations, shown with a grid network imposed over the area within the 5 µg/L contour line. Each grid square is presented as a separate plate showing greater detail than presented on the larger TCE and PCE concentration contour maps, along with street and highway names and other geographic information.

Deeper Zone. As discussed above, the concentrations of TCE and PCE generally decrease with depth (Figures 3-5 and 3-6). However, data for TCE and PCE from the Deeper Zone are more limited. The areas in the Deeper Zone exceeding 5 µg/L for both TCE and PCE are similar to what was observed during 2006, and they generally underlie the areas of contamination in the Shallow Zone (described above); however, the areas are less widespread than the areas observed in the Shallow Zone.

3.4.3 Area of Contamination

The total area of the SFV Superfund Site (Area 1, Area 2 and Area 4) is approximately 21,804 acres, or approximately 34.07 square miles. Table 3-2 presents the total acreage within the shallow and deeper contaminant plumes located in the SFV Superfund Sites, and depicted in Figures 3-2 to 3-8.

Area 1. Area 1 is the largest of the Areas within the SFV Superfund Sites at approximately 9,937 acres (approximately 45.6% of the total area). This Area also contains the largest proportion of the shallow TCE and PCE contaminant plumes (approximately 51% and 53%, respectively), and the largest proportion of the deeper TCE and PCE plumes (53% and 57%, respectively). Approximately 47.6% of the shallow chromium plume is located in Area 1.

Area 2. Area 2 contains almost as many acres as Area 1, with 9,726 acres (approximately 44.6% of the total area). This Area also contains a significant proportion of the shallow TCE and PCE contaminant plumes (approximately 40% and 35%, respectively), and a significant proportion of the deeper TCE and PCE plumes (37% and 38%, respectively). Approximately 45.4% of the shallow chromium plume is located in Area 2.

Area 4. Area 4 is the smallest of the SFV superfund Site Areas at approximately 2,141 acres (approximately 9.8% of total area). This Area contains approximately 4.5% of the shallow TCE and approximately 5.3% of the shallow PCE contaminant plumes, and minor portions of the deeper TCE and PCE plumes (1.9% and 1.0%, respectively). Approximately 2.1% of the shallow chromium plume is located in Area 4.

3.4.4 Extent of Metals Contamination

Metals that were reported above primary and secondary MCLs included dissolved manganese and dissolved chromium (Table 2-7). The concentration of dissolved chromium in monitoring well CS-VPB-04 decreased slightly compared to the fourth quarter 2006 values, from 242 to 193 µg/L. Upgradient from CS-VPB-04, chromium concentrations at CS-VPB-03 and CS-C03-100 remained similar to previous concentrations (60.4 µg/L at CS-VPB-03 [vs. 60.4 µg/L in 2006] and 85.2 µg/L at CS-C03-100 [vs. 74.5 µg/L in 2006]). Chromium concentrations at CS-VPB-05, located downgradient from CS-VPB-04, increased slightly from 298 to 310 µg/L. The dissolved chromium concentration at monitoring well PO-VPB-02 increased significantly from 238 µg/L to 422 µg/L.

Concentrations of chromium(VI) exceeding the MDL of 0.2 µg/L were detected in 42 of the 50 monitoring wells (12 exceeding the 5 µg/L MCL) sampled during the first quarter sampling event; 40 of the 50 monitoring wells (14 exceeding 5 µg/L) sampled during the second quarter sampling event; 38 of the 47 monitoring wells (11 exceeding 5 µg/L) sampled during the third quarter sampling event; and 48 of the 68 monitoring wells (15 exceeding 5 µg/L) sampled during the fourth quarter sampling event (Table 2-8).

Beginning in 2000, USEPA has included chromium(VI) as a part of the analytical suite for all sampling events (quarterly and annual). Between 2000 and 2007, the chromium(VI) concentrations in most of the monitoring wells have remained generally consistent, with fluctuations of 1 or 2 µg/L detected. However, 15 of the 84 wells in the monitoring program merit further discussion. The detected concentrations that exceeded 5 µg/L occurred at a consistent set of monitoring wells (Table 2-8), as listed below:

CS-C01-285	CS-C05-160	CS-VPB-06	NH-C06-160
CS-C02-250	CS-VPB-03	CS-VPB-09	PO-VPB-02
CS-C02-335	CS-VPB-04	NH-C04-240	PO-VPB-10
CS-C03-100	CS-VPB-05	NH-C04-375	

Three of these 15 monitoring wells (CS-C02-335, CS-C03-100, and PO-VPB-02) had an increasing trend during 2007 (4.2 to 6.4 µg/L, 81 to 92 µg/L, and 310 to 420 µg/L, respectively). Six of the remaining wells (CS-C05-160, CS-VPB-03, CS-VPB-04, CS-VPB-05, CS-VPB-06 and PO-VPB-10) had a decreasing trend during 2007 (18 to 15 µg/L, 63 to 60 µg/L, 280 to 160 µg/L, 370 to 320 µg/L, 8.9 to 7.2 µg/L, and 6.2 to 4.5 µg/L, respectively). The detected concentrations varied less than 1 µg/L in comparison between the 2007 quarterly events at the remaining six monitoring wells.

The shallow chromium plume, as shown in Figure 3-8, extends over approximately 16% of the SFV Superfund Sites encompassing an area of 3,410.1 acres (see Table 3-2).

3.4.5 Recommendations

This section provides general recommendations for the continued SFV groundwater monitoring program to assist with the operational activities in each of the OUs within the SFV Superfund Sites. These recommendations fall into 3 general categories:

- Repair and/or retrofit existing RI monitoring wells in the SFV monitoring network
- Re-evaluate sampling frequency

- Collect groundwater data in areas where it is currently lacking

3.4.5.1 Repair and/or Retrofit RI Monitoring Wells

There are a number of RI monitoring wells in Areas 1, 2, and 4 that were inoperable in 2007 due to pump failure, broken pipe connections, or insufficient water to submerge the pump, and are therefore in need of repair and/or retrofitting with alternate sampling equipment (see Table 3-3).

A general recommendation for all of the RI monitoring wells that have been inoperable during 2007 is that the existing pump, wiring and associated equipment be removed from each well. Additionally, it is recommended that alternate sampling technologies be evaluated and considered in these RI monitoring wells. The added benefits for use of these alternate sampling technologies would potentially include a reduction of investigation-derived waste (purge water) that would otherwise require containment, transport and disposal at the BOU Treatment Plant or at an off-site location; reduction in the level of labor required to complete the Quarterly and Annual sample events; and/or an overall reduction of the cost of the groundwater monitoring program.

Specific recommendations for each Area include the following:

Area 1

- Conduct a Repair and Rehabilitation event. This event would enable the use of all existing Area 1 RI monitoring wells in the monitoring network. The event would include: NH-C01-450, NH-C05-320, NH-VPB-03, NH-VPB-06, NH-VPB-09, NH-VPB-11 and NH-VPB-13.
- For each of these RI monitoring wells, it is recommended that the existing pump, wiring and associated equipment be removed and an alternate sampling method be evaluated (Table 3-3).

Area 2

- Conduct a Repair and Rehabilitation event. This event would enable the use of all existing Area 2 RI monitoring wells in the monitoring network. The event would include: CS-C03-465, CS-VPB-01, NH-VPB-12 and NH-VPB-14.
- For each of these RI monitoring wells, it is recommended that the existing pump, wiring and associated equipment be removed and an alternate sampling method be evaluated.

Area 4

- Conduct a Repair and Rehabilitation event. This event would enable the use of all existing Area 4 RI monitoring wells in the monitoring network. The event would include: PO-VPB-08.
- For this RI monitoring well, it is recommended that the existing pump, wiring and associated equipment be removed and an alternate sampling method be evaluated.

3.4.5.2 Re-evaluate Sampling Frequency

In addition to the above actions for maximizing use from all of the RI monitoring wells in the monitoring program, it is recommended that the sampling frequency of all RI monitoring

wells be re-evaluated. Several portions of the SFV area have contaminant concentrations that have been relatively stable (no significant increase or decrease of contaminants of concern). Upon evaluation, the sampling frequency of many RI monitoring wells in the quarterly monitoring program may be able to be reduced (e.g., to semi-annually or annually).

It is recommended that the overall RI monitoring well network also be evaluated using approved statistical methodology for long-term monitoring programs to maximize the efficiency of the monitoring program by concentrating groundwater data collection efforts in the areas where contaminant concentrations are significantly changing or areas where increases in potential contaminants of concern have been observed.

3.4.5.3 Collect Additional Groundwater Data

There are portions of the SFV Superfund Sites where additional groundwater data could enhance the assessment of contaminant conditions and aquifer characteristics. Some of this additional groundwater data will be provided through the repair and/or retrofit of existing RI monitoring wells, as stated above. However, there are other portions of the known contaminant plume areas where groundwater monitoring wells do not currently exist.

Area 1

Additional groundwater data along the western edge of the NHOU would assist with understanding the extent of the contamination in the vicinity of known facilities and wellfields. The repair and/or retrofitting of NH-C05-320, NH-VPB-03, NH-VPB-11 and NH-VPB-13 will assist with this effort.

Area 2

In the GNOU portion of Area 2, the repair and/or retrofitting of CS-C01, NH-VPB-12 and NH-VPB-14 will assist with understanding the extent of the contamination along the northern boundary between the BOU and GNOU.

In order to better understand existing contaminant conditions and aquifer characteristics in the GSOU portion of Area 2 there would need to be additional groundwater monitoring wells installed. These monitoring wells should be located in areas that supplement the existing RI monitoring well network and (if possible) both upgradient and downgradient of the known facilities in the GSOU.

Additional groundwater monitoring wells should be considered in the area between the cluster well location for CS-C06 (which includes CS-VPB-06) and the cluster well location for PO-C01 (which includes PO-VPB-01). The second area that should be considered for added groundwater monitoring wells is the area between the cluster well location for CS-C06 (which includes CS-VPB-06) and the cluster well location for PO-C01 (which includes PO-VPB-01). Both of these areas would provide valuable data that could assist the ongoing investigations in Area 2.

TABLE 3-1
Summary of Select VOCs Exceeding Thresholds - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date		TCE	PCE	DCE11	DCE12C	CTCL	DCA11	DCA12
		MCL	(5 µg/L)	(5 µg/L)	(6 µg/L)	(6 µg/L)	(0.5 µg/L)	(5 µg/L)	(0.5 µg/L)
CS-C01-105	3/13/2007		28 J	16 J	--	--	--	--	--
CS-C01-105	6/22/2007		41	23	--	--	--	--	--
CS-C01-105	9/21/2007		31	14	--	--	--	--	--
CS-C01-105	12/12/2007		32	18	--	--	0.65	--	--
CS-C01-285	3/13/2007		190 J	150 J	--	--	2.4 J	--	--
CS-C01-285	6/22/2007		160 J	110 J	--	--	1.4 J	--	--
CS-C01-285	9/21/2007		140	100	--	--	--	--	--
CS-C01-285	12/12/2007		200	140	--	--	1.6 J	--	--
CS-C02-062	3/14/2007		22 J	18 J	--	--	--	--	--
CS-C02-062	6/19/2007		21 J	14 J	--	--	--	--	--
CS-C02-062	9/25/2007		6.3	--	--	--	--	--	--
CS-C02-062	12/10/2007		18	16	--	--	--	--	--
CS-C02-180	3/14/2007		11 J	--	--	--	--	--	--
CS-C02-180	6/19/2007		9.8 J	--	--	--	--	--	--
CS-C02-180	9/25/2007		13 J	5.1 J	--	--	--	--	--
CS-C02-180	12/10/2007		10	--	--	--	--	--	--
CS-C02-250	3/14/2007		150 J	90 J	--	--	1.7 J	--	--
CS-C02-250	6/19/2007		140 J	82 J	--	--	1.4 J	--	--
CS-C02-250	9/25/2007		110	60	--	--	--	--	--
CS-C02-250	12/10/2007		130	74	--	--	1.5 J	--	--
CS-C02-335	3/14/2007		310 J	240 J	--	--	1.6 J	--	--
CS-C02-335	6/19/2007		410	200	--	--	--	--	--
CS-C02-335	9/25/2007		250	180	--	--	--	--	--
CS-C02-335	12/10/2007		340 E	250 E	--	--	1.4 J	--	--
CS-C03-100	3/13/2007		1300 J	120 J	140 J	12 J	8.1 J	13 J	2.3 J
CS-C03-100	6/19/2007		1200 J	110 J	130 J	12 J	6.2 J	14 J	--
CS-C03-100	9/12/2007		1100	92	110	10 J	6.1	11	--
CS-C03-100	12/10/2007		1100 E	95	110	9.9 J	7.2	12	2.7 J
CS-C04-290	3/22/2007		17 J	11 J	--	--	--	--	--
CS-C04-290	9/12/2007		17	11	--	--	--	--	--
CS-C04-290	12/5/2007		18	12	--	--	--	--	--
CS-C04-382	3/22/2007		23 J	21 J	--	--	--	--	--
CS-C04-382	6/20/2007		25	22 J	--	--	--	--	--
CS-C04-382	9/12/2007		24	21	--	--	--	--	--
CS-C04-382	12/5/2007		26	24	--	--	--	--	--

TABLE 3-1
Summary of Select VOCs Exceeding Thresholds - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date		TCE	PCE	DCE11	DCE12C	CTCL	DCA11	DCA12
		MCL	(5 µg/L)	(5 µg/L)	(6 µg/L)	(6 µg/L)	(0.5 µg/L)	(5 µg/L)	(0.5 µg/L)
CS-C05-160	3/16/2007		170 J	14 J	--	--	1.8 J	--	--
CS-C05-160	6/14/2007		170 J	15 J	--	--	1.6 J	--	--
CS-C05-160	9/14/2007		160	11	--	--	--	--	--
CS-C05-160	12/6/2007		160	13	--	--	1.6 J	--	--
CS-C05-290	3/16/2007		15 J	16 J	--	--	--	--	--
CS-C05-290	6/14/2007		18	18	--	--	--	--	--
CS-C05-290	9/14/2007		16	17	--	--	--	--	--
CS-C05-290	12/6/2007		17	20	--	--	--	--	--
CS-C06-185	3/22/2007		8.4 J	10 J	--	--	--	--	--
CS-C06-185	6/21/2007		7.9 J	--	--	--	--	--	--
CS-C06-185	9/13/2007		8.8	--	--	--	--	--	--
CS-VPB-01	3/15/2007		83 J	83 J	--	--	0.67 J	--	--
CS-VPB-01	6/22/2007		87	90	--	--	--	--	--
CS-VPB-01	9/19/2007		93	94	--	--	--	--	--
CS-VPB-03	3/13/2007		7.6 J	--	9.2 J	--	--	--	--
CS-VPB-03	6/19/2007		6.6	--	6.1	--	--	--	--
CS-VPB-03	9/13/2007		7.6	--	9.2	--	--	--	--
CS-VPB-03	12/11/2007		7.9 J	--	8.7	--	--	--	--
CS-VPB-04	3/22/2007		3000 J	150 J	--	48 J	6.9 J	31 J	--
CS-VPB-04	6/20/2007		3200 J	140 J	--	48 J	5.9 J	33 J	--
CS-VPB-04	9/12/2007		2800	110	290	46 J	5.9	28	--
CS-VPB-04	12/5/2007		2000	100	220	43 J	5.5	29	--
CS-VPB-05	3/16/2007		430 J	37 J	74 J	18 J	2.6 J	9.4 J	--
CS-VPB-05	6/14/2007		420 J	34 J	58 J	14 J	2.3 J	7.2 J	--
CS-VPB-05	9/14/2007		620	36	81	20 J	--	10	--
CS-VPB-05	12/6/2007		440	36	72	19 J	2.9 J	10	1.9 J
CS-VPB-06	3/22/2007		190 J	5.9 J	17 J	--	3.9 J	--	--
CS-VPB-06	6/21/2007		190 J	5.5 J	14 J	--	3.4 J	--	--
CS-VPB-06	9/13/2007		300	6	17	--	4.5 J	--	--
CS-VPB-06	12/11/2007		160	--	13	--	3.5 J	--	--
CS-VPB-07	3/15/2007		480 J	12 J	33 J	--	5.4 J	--	--
CS-VPB-07	6/20/2007		620 J	16 J	46 J	--	5.1 J	--	--
CS-VPB-07	9/19/2007		670 J	10 J	38	--	5.5	--	--
CS-VPB-07	12/13/2007		530	12	43	--	4.4 J	--	--

TABLE 3-1
Summary of Select VOCs Exceeding Thresholds - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date		TCE	PCE	DCE11	DCE12C	CTCL	DCA11	DCA12
		MCL	(5 µg/L)	(5 µg/L)	(6 µg/L)	(6 µg/L)	(0.5 µg/L)	(5 µg/L)	(0.5 µg/L)
CS-VPB-08	3/13/2007		120 J	230 J	--	--	--	--	--
CS-VPB-08	6/15/2007		110 J	240 J	--	--	--	--	--
CS-VPB-08	9/12/2007		120	380	--	--	--	--	--
CS-VPB-08	12/5/2007		130	220	--	--	--	--	--
CS-VPB-09	3/16/2007		--	6.6 J	--	--	--	--	--
CS-VPB-09	6/14/2007		--	6	--	--	--	--	--
CS-VPB-09	9/13/2007		--	6.5	--	--	--	--	--
CS-VPB-10	3/22/2007		12 J	28 J	--	--	--	--	--
CS-VPB-10	6/14/2007		14 J	35 J	--	--	--	--	--
CS-VPB-10	9/13/2007		9.2	23	--	--	--	--	--
CS-VPB-10	12/11/2007		11	23	--	--	--	--	--
CS-VPB-11	3/22/2007		--	9.9 J	--	--	--	--	--
CS-VPB-11	6/15/2007		--	9.4 J	--	--	--	--	--
CS-VPB-11	9/19/2007		--	7.7	--	--	--	--	--
CS-VPB-11	12/13/2007		--	11	--	--	--	--	--
NH-C01-325	3/14/2007		--	30 J	--	--	--	--	--
NH-C01-325	6/20/2007		--	37 J	--	--	--	--	--
NH-C01-325	9/19/2007		--	32	--	--	--	--	--
NH-C01-325	12/12/2007		--	24	--	--	--	--	--
NH-C02-220	3/12/2007		11 J	--	--	--	2.3 J	--	--
NH-C02-220	6/18/2007		--	--	--	--	0.67 J	--	--
NH-C02-220	9/17/2007		--	--	--	--	1.4	--	--
NH-C02-220	12/3/2007		9.8	--	--	--	1.4	--	--
NH-C02-325	3/12/2007		14 J	--	--	--	--	--	--
NH-C02-325	6/18/2007		13 J	--	--	--	--	--	--
NH-C02-325	9/17/2007		11	--	--	--	--	--	--
NH-C02-325	12/3/2007		10	--	--	--	--	--	--
NH-C02-520	3/12/2007		9.5 J	--	--	--	0.58 J	--	--
NH-C02-520	6/18/2007		5.9 J	--	--	--	--	--	--
NH-C02-520	9/17/2007		5.5	--	--	--	--	--	--
NH-C03-580	11/27/2007		10	11	--	--	--	--	--
NH-C05-460	3/14/2007		81 J	--	--	--	--	--	--
NH-C05-460	6/20/2007		120 J	--	--	--	--	--	--
NH-C05-460	9/19/2007		100	--	--	--	--	--	--
NH-C05-460	12/4/2007		110	--	--	--	--	--	--

TABLE 3-1
Summary of Select VOCs Exceeding Thresholds - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date		TCE	PCE	DCE11	DCE12C	CTCL	DCA11	DCA12
		MCL	(5 µg/L)	(5 µg/L)	(6 µg/L)	(6 µg/L)	(0.5 µg/L)	(5 µg/L)	(0.5 µg/L)
NH-C06-285	3/13/2007		68 J	5.6 J	--	--	1 J	--	--
NH-C06-285	6/19/2007		59 J	--	--	--	--	--	--
NH-C06-285	9/18/2007		67	--	--	--	--	--	--
NH-C06-285	12/4/2007		78	6	--	--	0.94	--	--
NH-VPB-01	3/23/2007		18 J	12 J	--	--	0.81 J	--	--
NH-VPB-01	6/22/2007		21 J	11 J	--	--	0.8 J	--	--
NH-VPB-01	9/20/2007		12	6.2	--	--	0.55	--	--
NH-VPB-01	12/12/2007		20	11	--	--	0.75	--	--
NH-VPB-02	3/12/2007		5.1 J	5.9 J	--	--	--	--	--
NH-VPB-02	6/21/2007		12 J	6.9 J	--	--	--	--	--
NH-VPB-02	9/18/2007		--	15	--	--	--	--	--
NH-VPB-02	12/4/2007		--	5.4	--	--	--	--	--
NH-VPB-05	3/12/2007		32 J	--	--	--	4.5 J	--	--
NH-VPB-05	6/18/2007		51 J	--	--	--	5.6 J	--	--
NH-VPB-05	9/17/2007		46	--	--	--	5.4	--	--
NH-VPB-05	12/3/2007		36	--	--	--	5.1	--	--
NH-VPB-06	3/8/2007		17 J	--	--	--	--	--	--
NH-VPB-06	6/20/2007		17 J	--	--	--	--	--	--
NH-VPB-06	9/10/2007		46	--	--	--	--	--	--
NH-VPB-08	3/12/2007		7 J	--	--	--	--	--	--
NH-VPB-08	6/18/2007		10 J	--	--	--	--	--	--
NH-VPB-08	9/17/2007		12	--	--	--	--	--	--
NH-VPB-08	12/3/2007		11	--	--	--	--	--	--
PO-C01-195	3/16/2007		12 J	--	--	--	--	--	--
PO-C01-195	6/15/2007		13	--	--	--	0.59 J	--	--
PO-C01-195	9/14/2007		8.8	--	--	--	0.56	--	--
PO-C01-195	12/11/2007		7.7	--	--	--	--	--	--
PO-VPB-02	3/16/2007		170 J	100 J	11 J	--	--	--	--
PO-VPB-02	6/15/2007		200 J	91 J	--	--	--	--	--
PO-VPB-02	9/14/2007		160	67	6.8	--	--	--	--
PO-VPB-02	12/11/2007		160	72	--	--	--	--	--
PO-VPB-03	3/15/2007		11 J	6.5 J	--	--	--	--	--
PO-VPB-03	6/21/2007		--	6.4 J	--	--	--	--	--
PO-VPB-03	9/20/2007		8.7	--	--	--	--	--	--
PO-VPB-03	12/13/2007		12	7.4	--	--	--	--	--

TABLE 3-1
Summary of Select VOCs Exceeding Thresholds - 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well ID	Sample Date		TCE	PCE	DCE11	DCE12C	CTCL	DCA11	DCA12
		MCL	(5 µg/L)	(5 µg/L)	(6 µg/L)	(6 µg/L)	(0.5 µg/L)	(5 µg/L)	(0.5 µg/L)
PO-VPB-07	3/16/2007		41 J	--	--	--	--	--	--
PO-VPB-07	6/15/2007		24 J	--	--	--	--	--	--
PO-VPB-07	9/21/2007		170	--	--	--	--	--	--
PO-VPB-07	12/13/2007		150	--	--	--	--	--	--
PO-VPB-08	3/16/2007		7.3 J	5.8 J	--	--	--	--	--
PO-VPB-08	6/22/2007		6.7 J	--	--	--	--	--	--
VD-VPB-01	3/9/2007		--	5.4 J	--	--	--	--	--

Notes:

µg/L = micrograms per liter
MCL = California Department of Health Services Primary Maximum Contaminant Level

CTCL = Carbon tetrachloride
DCA11 = 1,1-Dichloroethane
DCA12 = 1,2-Dichloroethane
DCE11 = 1,1-Dichloroethene
DCE12C = *cis*-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene

J = Approximate concentration
E = Concentration exceeds upper level of instrument calibration range

TABLE 3-2
SFV Contaminant Plume Acreages During 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

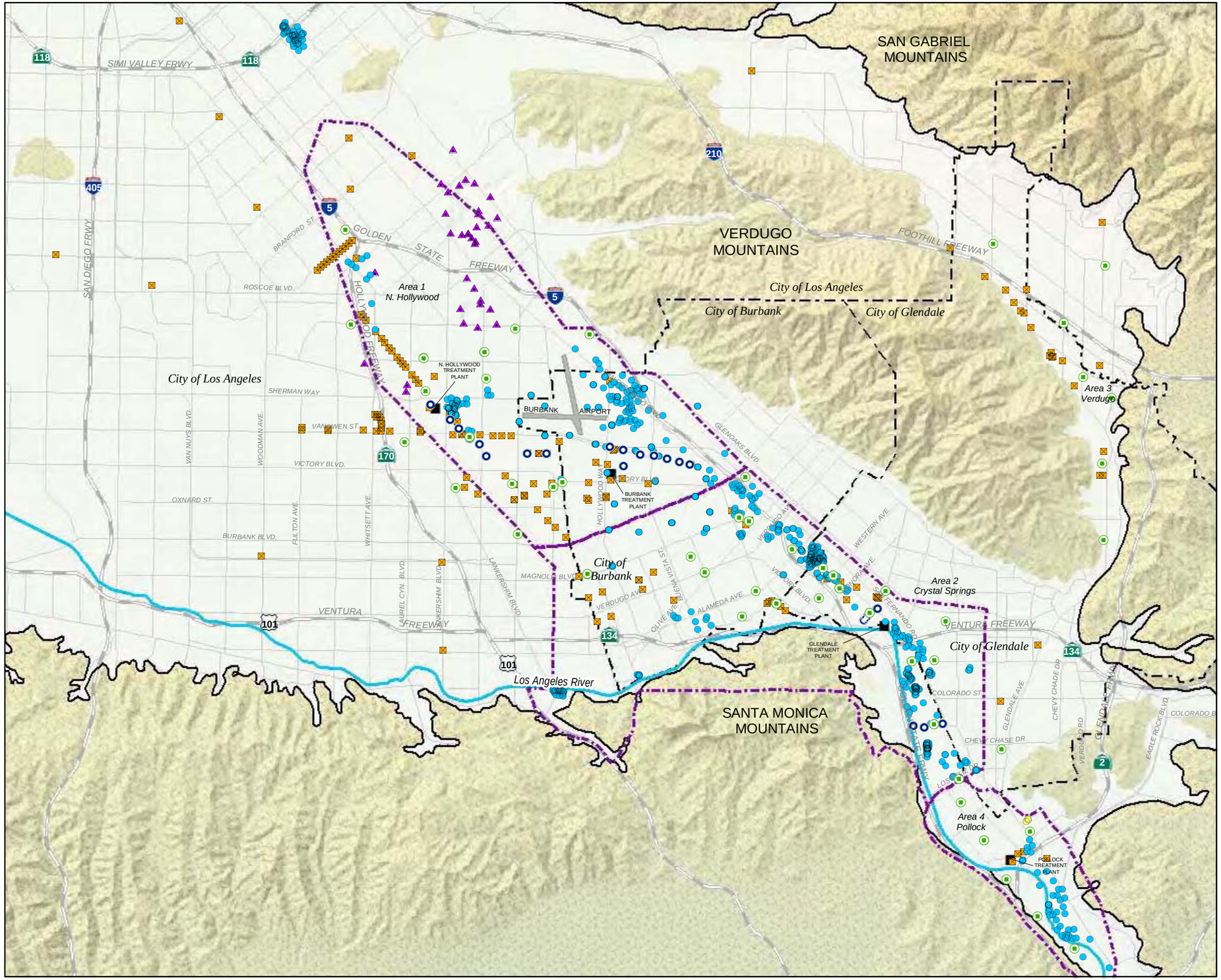
Contaminant	Zone	Area 1	Area 2	Area 4	Outside USEPA Areas	Total Plume Acres
TCE	Shallow	4,599.3	3,586.2	400.9	296.4	8,882.8
TCE	Deep	2,135.2	1,475.1	77.5	273.5	3,961.2
PCE	Shallow	4,010.6	2,689.3	401.3	387.9	7,489.1
PCE	Deep	2,438.6	1,636.6	43.1	119.5	4,237.7
NO_3	Shallow	1,975.4	1,808.3	327.7	1529.5	5,640.8
NO_3	Deep	62.4	207.6	0.0	146.7	416.7
Cr	Shallow	1,624.7	1,549.8	70.1	165.6	3,410.1

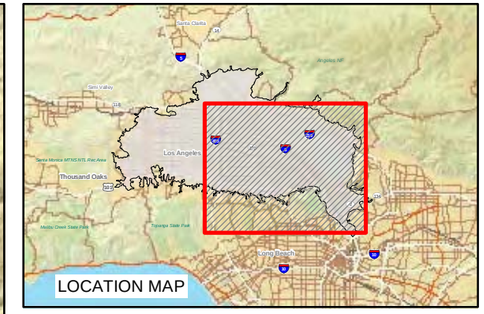
Note:
All measurements are in acres.

TABLE 3-3
RI Monitoring Wells Inoperable During 2007
San Fernando Valley Superfund Sites - Groundwater Monitoring Program

Well Name	TD (ft bgs)	Screen Interval (ft bgs)	Pump Setting (ft bgs)	Recent DTW (ft bgs)	Reason Not Sampled
NH-C01-450	453	400-450	NA	NA	Pipe broke – pump fell to bottom
NH-C05-320	320	270-320	315	285.15	No H_2O to surface
NH-VPB-03	220	200-220	210	191.6	No H_2O to surface
NH-VPB-06	307	287-307	300	285.95	No H_2O to surface
NH-VPB-09	291	271-291	No pump	272.50	Pump removed for construction
NH-VPB-11	321	301-321	319	299.34	No H_2O to surface
NH-VPB-13	375	356-375	374	356.50	Pump locked up
CS-C03-465	465	425-465	127	55.12	Broken pipe coupling
CS-VPB-01	96	76-96	81	NA	Broken pipe coupling
NH-VPB-12	160	140-160	155	142.10	No H_2O to surface
NH-VPB-14	112	92-112	107	97.9	Pump locked up
PO-VPB-08	46	26-46	41	NA	Pump surging

Notes:
DTW = depth to water
ft bgs = feet below ground surface
NA = not available
TD = total depth

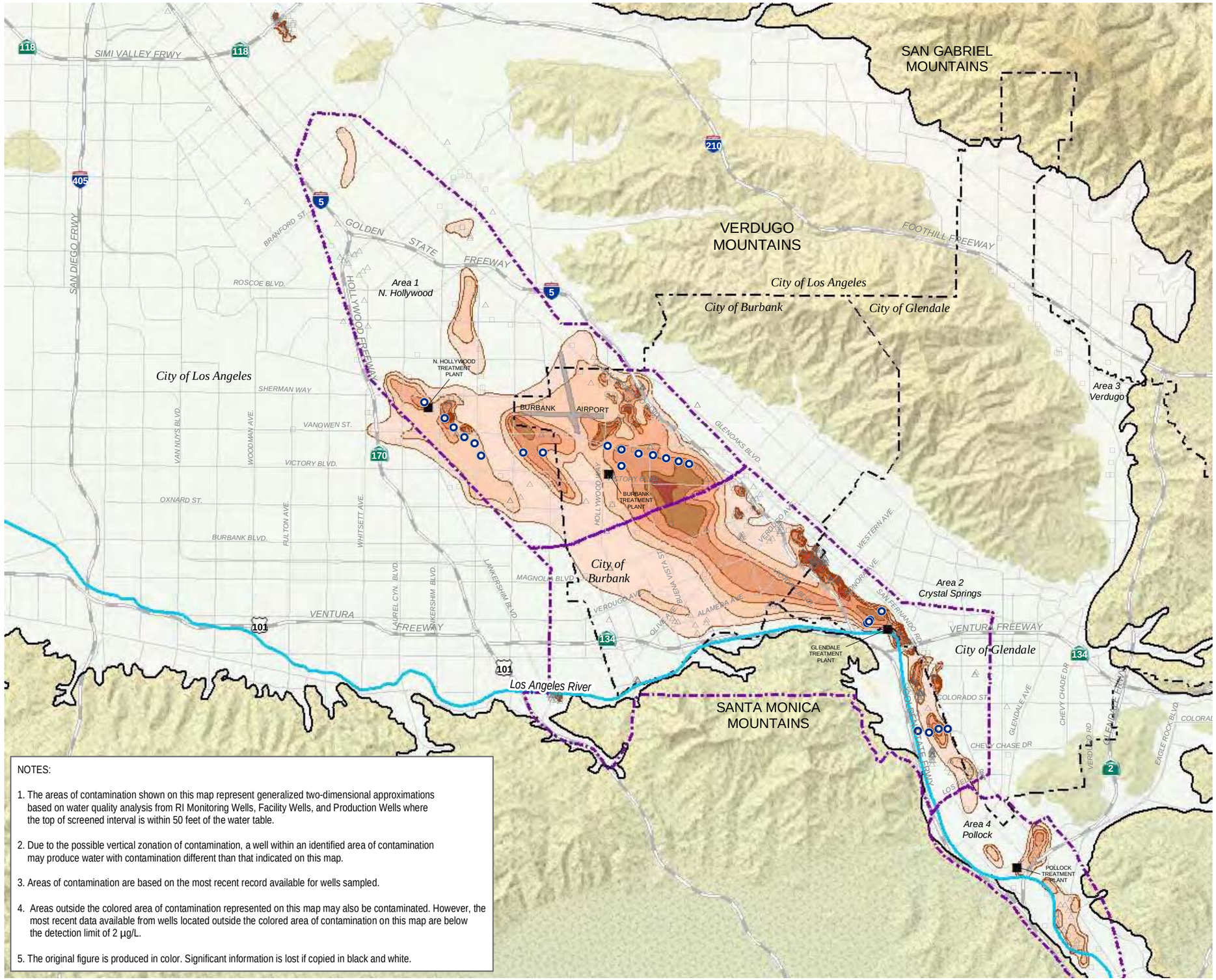




LEGEND

- Treatment Plant
- Extraction Well
- Facility Well
- Land Fill Well
- Production Well
- Remedial Investigation Monitoring Well
- Unknown
- Municipal Boundary
- Approximate Boundary of Investigation Areas for San Fernando Valley Superfund Sites

FIGURE 3-1
Location Of Wells Used For Preparation Of Plume Maps
San Fernando Valley Superfund Sites



NOTES:

1. The areas of contamination shown on this map represent generalized two-dimensional approximations based on water quality analysis from RI Monitoring Wells, Facility Wells, and Production Wells where the top of screened interval is within 50 feet of the water table.

2. Due to the possible vertical zonation of contamination, a well within an identified area of contamination may produce water with contamination different than that indicated on this map.

3. Areas of contamination are based on the most recent record available for wells sampled.

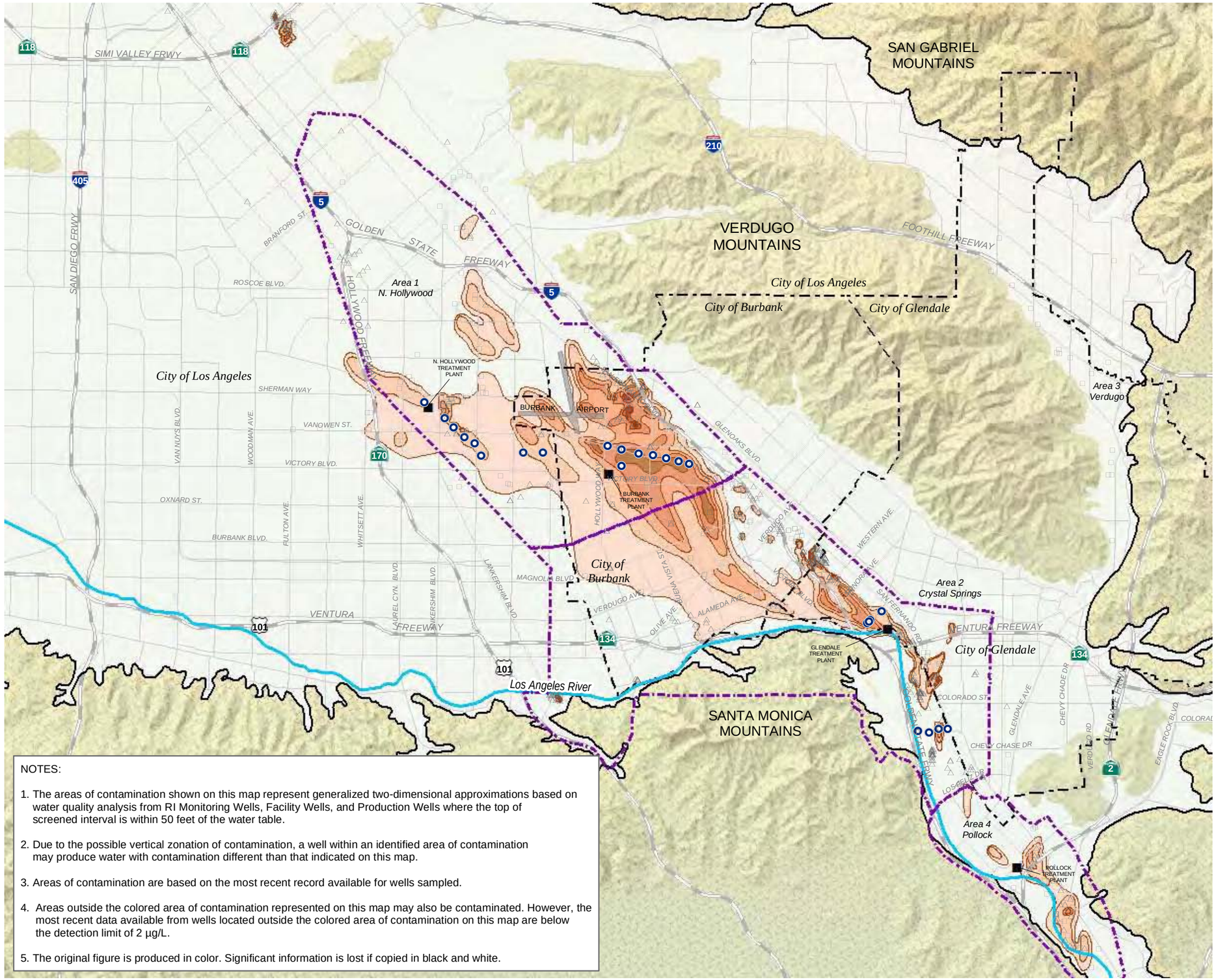
4. Areas outside the colored area of contamination represented on this map may also be contaminated. However, the most recent data available from wells located outside the colored area of contamination on this map are below the detection limit of 2 µg/L.

5. The original figure is produced in color. Significant information is lost if copied in black and white.

FIGURE 3-2
TCE Contamination (µg/L)
in Shallow Zone in 2007
San Fernando Valley Superfund Sites

CH2MHILL

BAO \\ZINFANDEL\PROJ\USENVIRONMENTALPROTE\COMMONFILES\GIS\EPASFV\MAPFILES\2008\2007REPORT\TCE_2007RPT_SHALLOW.MXD 6/16/2009 14:07:07



NOTES:

1. The areas of contamination shown on this map represent generalized two-dimensional approximations based on water quality analysis from RI Monitoring Wells, Facility Wells, and Production Wells where the top of screened interval is within 50 feet of the water table.

2. Due to the possible vertical zonation of contamination, a well within an identified area of contamination may produce water with contamination different than that indicated on this map.

3. Areas of contamination are based on the most recent record available for wells sampled.

4. Areas outside the colored area of contamination represented on this map may also be contaminated. However, the most recent data available from wells located outside the colored area of contamination on this map are below the detection limit of 2 µg/L.

5. The original figure is produced in color. Significant information is lost if copied in black and white.

FIGURE 3-3
PCE Contamination (µg/L)
In Shallow Zone In 2007
San Fernando Valley Superfund Sites

CH2MHILL

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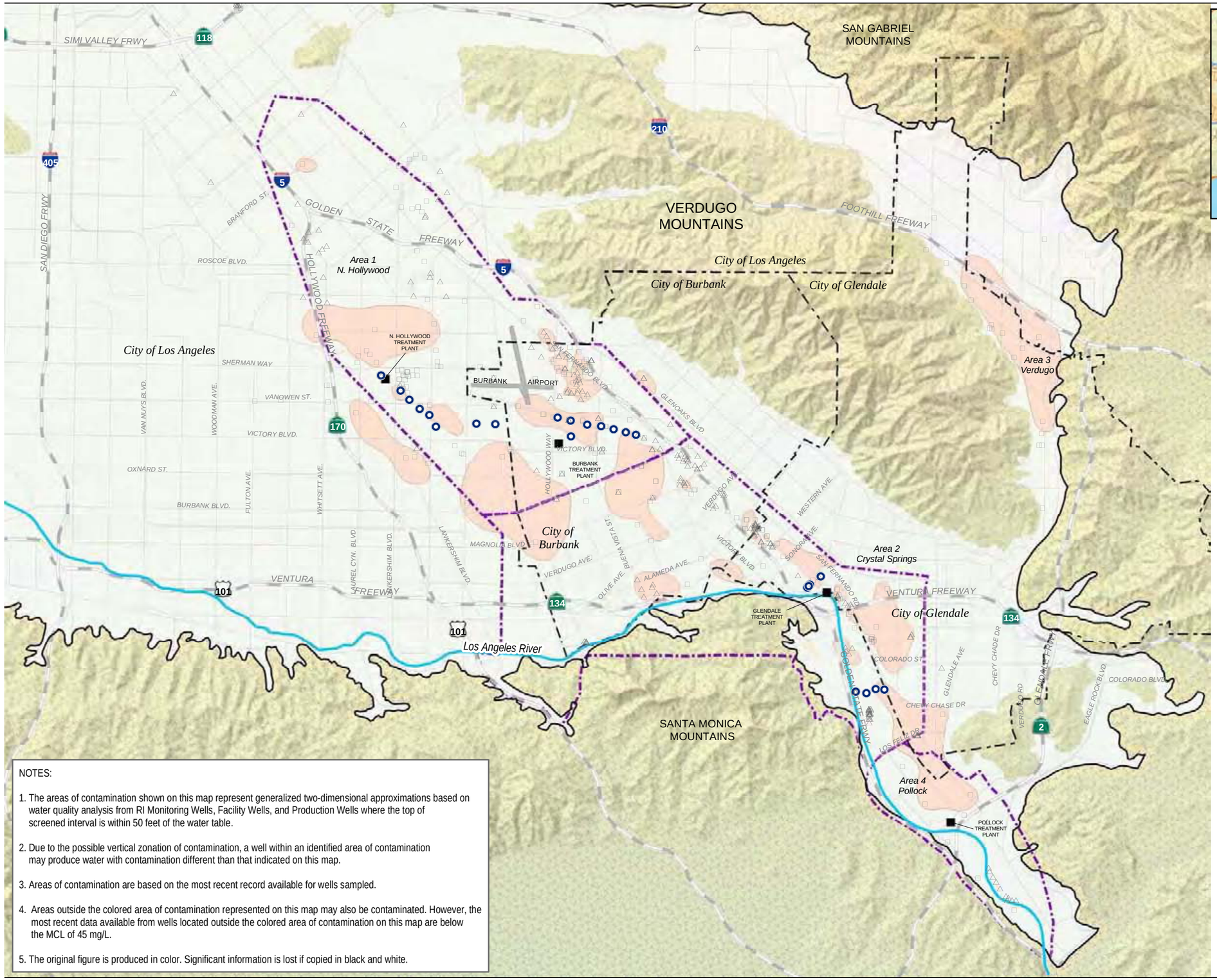

NOTES:

1. The areas of contamination shown on this map represent generalized two-dimensional approximations based on water quality analysis from RI Monitoring Wells, Facility Wells, and Production Wells where the top of screened interval is within 50 feet of the water table.

2. Due to the possible vertical zonation of contamination, a well within an identified area of contamination may produce water with contamination different than that indicated on this map.

3. Areas of contamination are based on the most recent record available for wells sampled.

4. Areas outside the colored area of contamination represented on this map may also be contaminated. However, the most recent data available from wells located outside the colored area of contamination on this map are below the MCL of 45 mg/L.

5. The original figure is produced in color. Significant information is lost if copied in black and white.

FIGURE 3-4
NO_3 Contamination (mg/L)
in Shallow Zone in 2007
San Fernando Valley Superfund Sites

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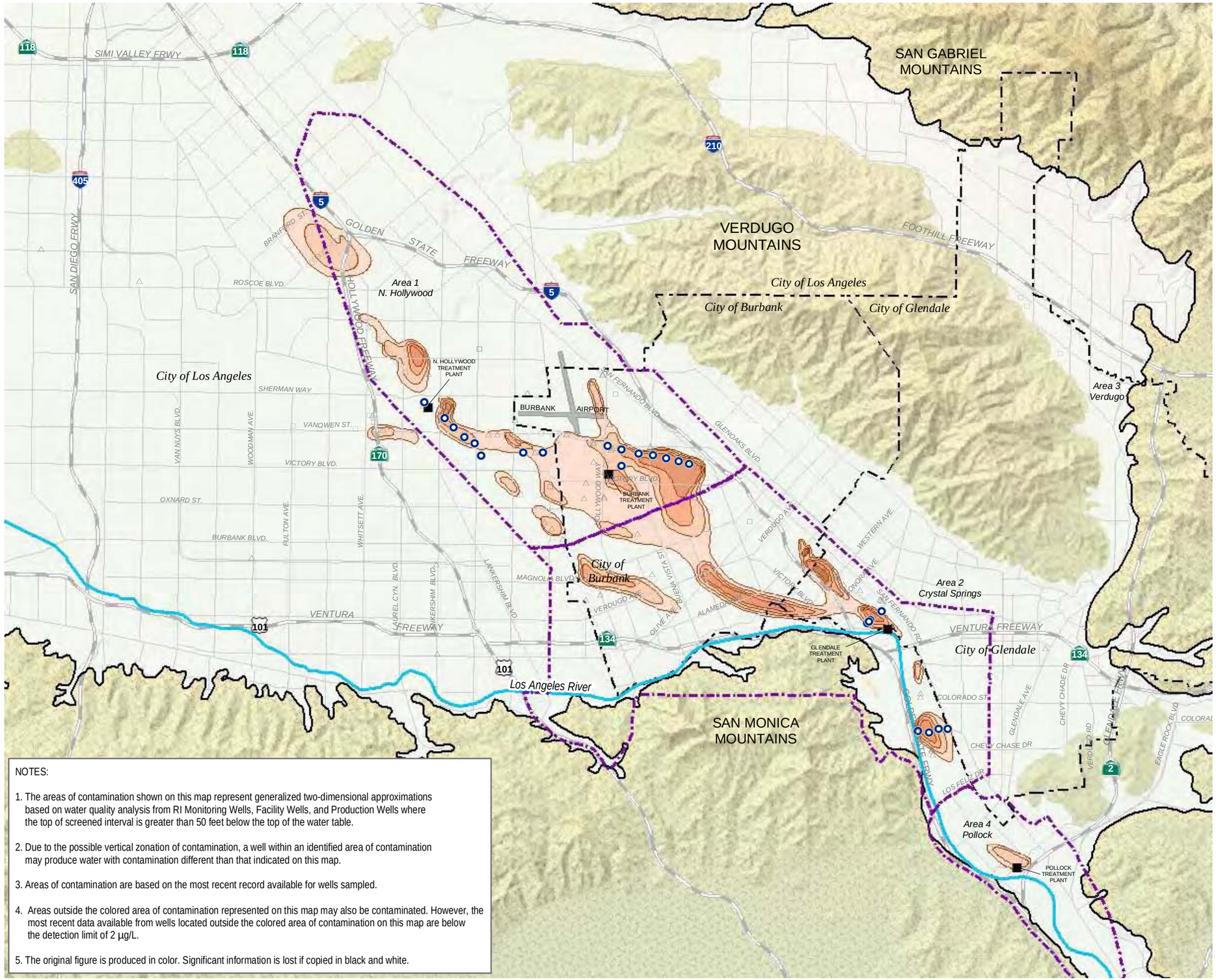

NOTES:

1. The areas of contamination shown on this map represent generalized two-dimensional approximations based on water quality analysis from RI Monitoring Wells, Facility Wells, and Production Wells where the top of screened interval is greater than 50 feet below the top of the water table.

2. Due to the possible vertical zonation of contamination, a well within an identified area of contamination may produce water with contamination different than that indicated on this map.

3. Areas of contamination are based on the most recent record available for wells sampled.

4. Areas outside the colored area of contamination represented on this map may also be contaminated. However, the most recent data available from wells located outside the colored area of contamination on this map are below the detection limit of 2 µg/L.

5. The original figure is produced in color. Significant information is lost if copied in black and white.

FIGURE 3-5
TCE Contamination (µg/L)
in Deeper Zone in 2007
San Fernando Valley Superfund Sites

CH2MHILL

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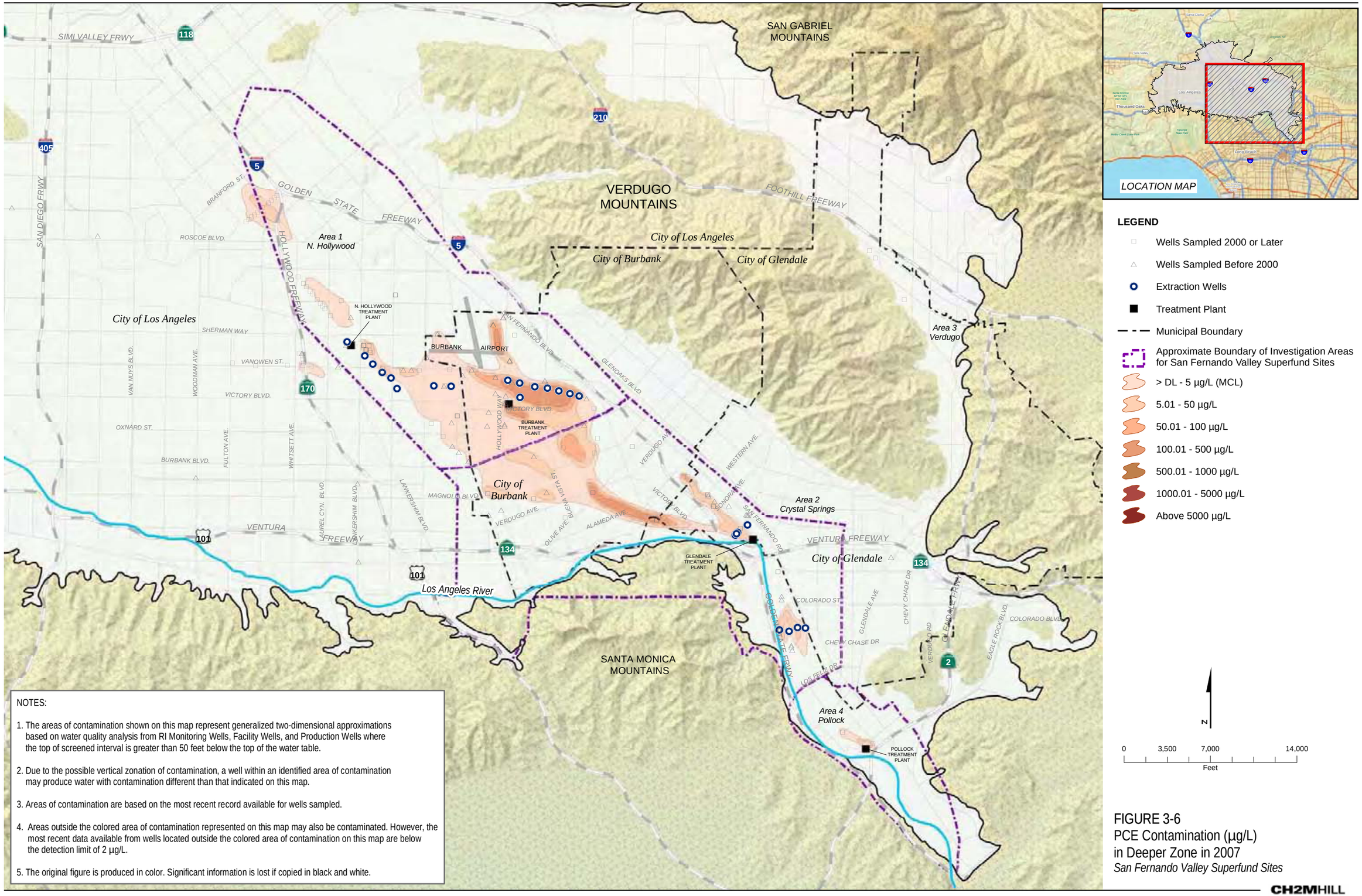

NOTES:

1. The areas of contamination shown on this map represent generalized two-dimensional approximations based on water quality analysis from RI Monitoring Wells, Facility Wells, and Production Wells where the top of screened interval is greater than 50 feet below the top of the water table.

2. Due to the possible vertical zonation of contamination, a well within an identified area of contamination may produce water with contamination different than that indicated on this map.

3. Areas of contamination are based on the most recent record available for wells sampled.

4. Areas outside the colored area of contamination represented on this map may also be contaminated. However, the most recent data available from wells located outside the colored area of contamination on this map are below the detection limit of 2 µg/L.

5. The original figure is produced in color. Significant information is lost if copied in black and white.

FIGURE 3-6
PCE Contamination (µg/L)
in Deeper Zone in 2007
San Fernando Valley Superfund Sites

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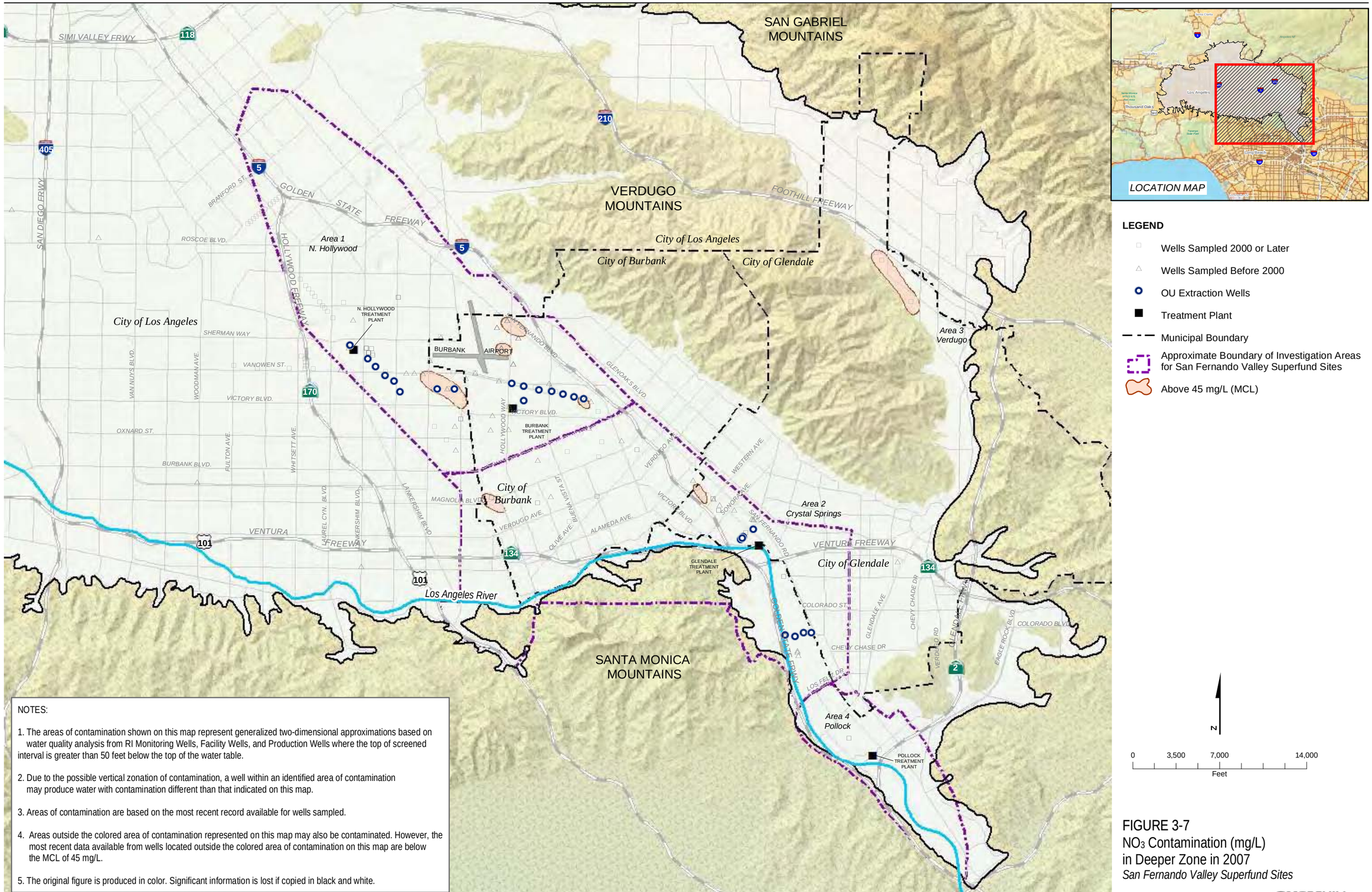

NOTES:

1. The areas of contamination shown on this map represent generalized two-dimensional approximations based on water quality analysis from RI Monitoring Wells, Facility Wells, and Production Wells where the top of screened interval is greater than 50 feet below the top of the water table.

2. Due to the possible vertical zonation of contamination, a well within an identified area of contamination may produce water with contamination different than that indicated on this map.

3. Areas of contamination are based on the most recent record available for wells sampled.

4. Areas outside the colored area of contamination represented on this map may also be contaminated. However, the most recent data available from wells located outside the colored area of contamination on this map are below the MCL of 45 mg/L.

5. The original figure is produced in color. Significant information is lost if copied in black and white.

FIGURE 3-7
NO_3 Contamination (mg/L)
in Deeper Zone in 2007
San Fernando Valley Superfund Sites

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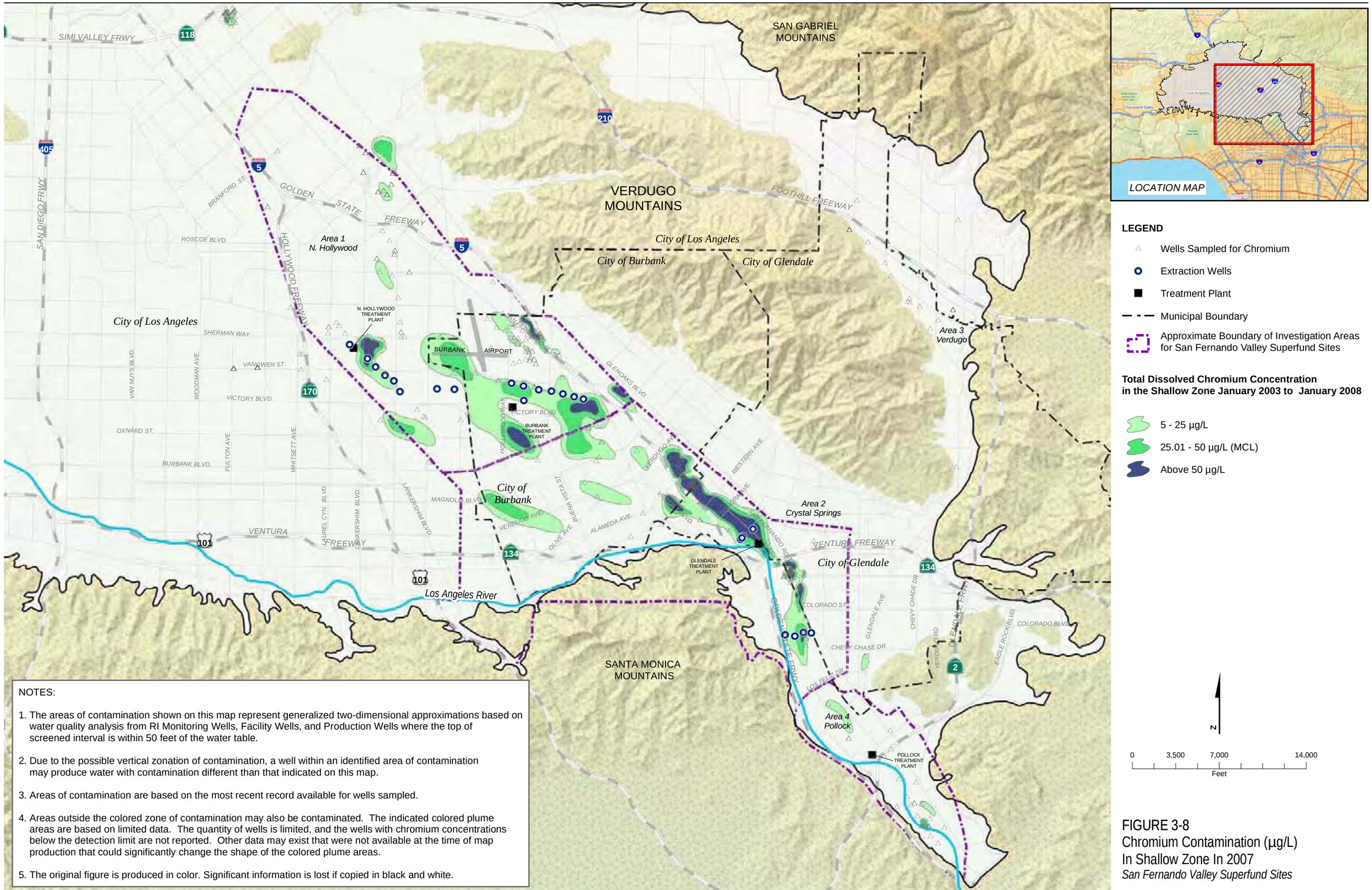

NOTES:

1. The areas of contamination shown on this map represent generalized two-dimensional approximations based on water quality analysis from RI Monitoring Wells, Facility Wells, and Production Wells where the top of screened interval is within 50 feet of the water table.

2. Due to the possible vertical zonation of contamination, a well within an identified area of contamination may produce water with contamination different than that indicated on this map.

3. Areas of contamination are based on the most recent record available for wells sampled.

4. Areas outside the colored zone of contamination may also be contaminated. The indicated colored plume areas are based on limited data. The quantity of wells is limited, and the wells with chromium concentrations below the detection limit are not reported. Other data may exist that were not available at the time of map production that could significantly change the shape of the colored plume areas.

5. The original figure is produced in color. Significant information is lost if copied in black and white.

FIGURE 3-8
Chromium Contamination (µg/L)
In Shallow Zone In 2007
San Fernando Valley Superfund Sites

CH2MHILL

4.0 References

CH2M HILL. 2007. *2006 Report: San Fernando Valley Basin Groundwater Monitoring Program, San Fernando Valley, Los Angeles County, California*. December.

E2 Consulting Engineers. 1999a. *Revised Sampling and Analysis Plan for San Fernando* Groundwater *Monitoring Program, San Fernando Valley Basin, Burbank, Glendale, North Hollywood and Los Angeles, California*. October.

_____. 1999b. *Revised Quality Assurance Project Plan for San Fernando Groundwater Monitoring* Program*, San Fernando Valley Basin, Burbank, Glendale, North Hollywood and Los Angeles, California*. October.

_____. 1999c. *Addendum No. 2 to the Quality Assurance Project Plan for San Fernando* Groundwater *Monitoring Program, San Fernando Valley Basin, Burbank, Glendale, North Hollywood and Los Angeles, California*. November.

_____. 1999d. *Addendum No. 3 to the Revised Sampling and Analysis Plan for San Fernando* Groundwater *Monitoring Program, San Fernando Valley Basin, Burbank, Glendale, North Hollywood and Los Angeles, California*. November.

James M. Montgomery Consulting Engineers, Inc. 1992. *Remedial Investigation of Groundwater Contamination in the San Fernando Valley, Remedial Investigation Report*. December.

U.S. Environmental Protection Agency (USEPA). 2004. 40 CFR Part 300 48398 - 48400 Federal Register – Direct Final Notice of Deletion of the San Fernando Valley Basin Area 3, Verdugo Study Area Superfund Site from the National Priorities List (NPL). Vol. 69, No. 153. Tuesday, August 10, 2004.