CONTINUED OPERATION OF THE PUENTE HILLS LANDFILL

VOLUME IV: TECHNICAL APPENDIX J (1 OF 2) FOR THE DRAFT ENVIRONMENTAL IMPACT REPORT

State Clearinghouse Number 2000041066

SANITATION DISTRICTS OF LOS ANGELES COUNTY

Prepared by:

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June 2001

Cover photo, Typical mature landscaped landfill surface along the entrance road at the Puente Hills Landfill. Groundcover in this area is primarily red fescue. Shrubs and trees present include bottlebrush, bushy yate, California pepper, cypress hybrid, various Eucalyptus species, Crape Myrtle, and a yucca commonly referred to as Our Lord's Candle.

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1997 Puente Hills Landfill Annual Water Quality Monitoring Report (with 5-year trend graphs)

1998 Puente Hills Landfill Annual Water Quality Monitoring Report

1999 Puente Hills Landfill Annual Water Quality Monitoring Report

1993 Annual Water Quality Monitoring Report

WASTEWATER RECLAMATION
SOLID WASTE MANAGEMENT

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

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CHARLES W. CARRY
Chief Engineer and General Manager

March 1, 1994
File No. 31R-109.10B

Mr. Juan Gonzales
Technical Support Group
California Water
Quality Control Board
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Dear Mr. Gonzales:

Puente Hills Landfill No. 6
Annual Report for 1993
Order No. 91-035
File No. 57-220

Enclosed please find the Annual Report for Puente Hills Landfill No. 6 for 1993.

I certify that, to my knowledge, during 1993, all wastes deposited were in compliance with the Board's Order No. 91-035 and that no wastes were deposited outside the boundaries of the site as specified in the Board's Requirements. All laboratory analyses were conducted at laboratories certified for such analyses in accordance with current guideline procedures contained in 40 CFR Part 136, or as specified in this Monitoring Program.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 1st day of March, 1994, at Whittier, California.

Very truly yours,

Charles W. Carry

John H. Gulledge
Assistant Department Head
Solid Waste Management Department

JHG:DLR:leh
Enclosure

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EXECUTIVE SUMMARY

This annual monitoring report summarizes water quality monitoring and waste disposal data at the Puente Hills Landfill for 1993. It is prepared by order of the Regional Water Quality Control Board's (RWQCB) Monitoring and Reporting Program No. 2294 for the Puente Hills Landfill (File No. 57-220), dated March 4, 1991.

The Puente Hills Landfill is located immediately east of the San Gabriel River Freeway (605) and immediately south of the Pomona Freeway (60) on Workman Mill Road in the City of Whittier. The landfill property is underlain by low permeability siltstone and siltstone interlayer formations of marine origin. These formations are considered non-water bearing though small amounts of canyon water do exist in the alluvium and weathered bedrock.

The site is located on the northern tip of the western Puente Hills. The western Puente Hills is bounded to the north by floodplain deposits, including San Jose Creek and the San Gabriel Groundwater Basin, and an isolated bedrock outcrop of the Pico Formation referred to as Avocado Heights; to the west by the Whittier Narrows and the San Gabriel River areas; and to the southwest by the Central Groundwater Basin. Regionally, groundwater in the San Gabriel Groundwater Basin flows from the east to west and exits the San Gabriel Groundwater Basin at the Whittier Narrows.

The water quality data analyzed in monitoring wells are representative of water in equilibrium with the marine and detrital sediments underlying the site. This was verified by both background monitoring wells data and experimental results from soil equilibrium/mineral leaching studies performed by the Sanitation Districts.

Monitoring results and waste disposal summaries are presented in this report in tabular and/or graphic forms for background monitoring wells, barrier downgradient wells, the liquid collection and removal system in Canyon 9, extraction wells, offsite monitoring wells, unsaturated zone lysimeters, and surface runoff samples. Analytical results for general water quality indicator parameters, metals, volatile organic compounds, base neutral/acid extractable compounds, and pesticides do not indicate leachate formation or adverse effects to beneficial uses of groundwater quality from waste disposal activities at the Puente Hills Landfill.

Monitoring of sludge composite samples indicates that the inorganic and organic constituents of sludge were substantially below both soluble and total threshold limit concentrations for hazardous waste identification criteria contained in Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24 of the California Code of Regulations.

In 1993, all incinerator ash accepted at the Puente Hills Landfill was treated. Testing results for treated ash from the Commerce Refuse to Energy Facility and the Southeast Resource Recovery Facility have been separately reported to the RWQCB in monthly ash analysis data reports and are therefore not included in this monitoring report.

PUENTE HILLS LANDFILL ANNUAL REPORT FOR 1993

1.0 INTRODUCTION

This report summarizes water quality conditions at the Puente Hills Landfill during 1993. Included in this report are a description of the site, its geology and hydrogeology, discussions concerning construction activities affecting water quality monitoring, and all monitoring results for surface water, groundwater, and unsaturated zone monitoring facilities. These facilities include background monitoring wells, barrier downgradient monitoring wells, barrier upgradient extraction wells, liquid collection and removal system (LCRS) in Canyon 9, unsaturated zone lysimeters, and runoff monitoring points. Sludge and treated ash disposal tonnages at the site are also summarized in the report.

2.0 SITE DESCRIPTION

The Puente Hills Landfill is a Class III municipal solid waste landfill which accepts municipal solid waste and non-hazardous solid wastes including treated incinerator ash, inert solid wastes, and dewatered sewage sludge. It is located immediately east of the San Gabriel River Freeway (605) and immediately south of the Pomona Freeway (60) on Workman Mill Road in Section 3, Township 2 south, Range 11 west, San Bernardino Meridian (See Exhibit 1). The principal land acquisition for what is now known as the Puente Hills Landfill was completed in June of 1970 with the purchase of a 1,214 acre parcel of the Pellissier Ranch. This portion of the Pellissier Ranch included a landfill operation that began in 1957 by the San Jose Development Company. At the time of the 1970 purchase by the Los Angeles County Sanitation Districts (Sanitation Districts), approximately six million tons of waste had been placed on the property. Since June 1970, the Sanitation Districts have remained the sole owner and operator of the Puente Hills Landfill. An additional 151 acres of land along the north side of the site was purchased in May of 1981 bringing the site to 1,365 acres. The placement of refuse at the site is pursuant to the Conditional Use Permit issued by the Los Angeles County Regional Planning and Waste Discharge Requirements (WDR) issued by the Regional Water Quality Control Board, Los Angeles Region (RWQCB).

The RWQCB, on April 23, 1959, adopted Resolution No. 59-34 which prescribed requirements for the disposal of nonhazardous solid and certain "semi-liquid", and inert wastes at the Puente Hills Landfill. On July 27, 1972 the RWQCB adopted a Monitoring and Reporting Program (MRP), thereby amending Resolution No. 59-34. On April 12, 1983 the RWQCB amended Resolution No. 59-34 and adopted MRP No. 2294 to update the monitoring and reporting requirements to include groundwater and dewatered sewage sludge sampling, analyses, and reporting. On March 27, 1989 the RWQCB adopted WDR Order No. 89-032 and amended MRP No. 2294 to include comprehensive groundwater monitoring requirements at the Puente Hills Landfill. WDR Order No. 89-032

EXHIBIT 1
Site Location

also allowed for the interim disposal of incinerator ash for a one year period in order for the Sanitation Districts to propose and implement new procedures to modify ash characteristics to conform with applicable water quality objectives. On March 26, 1990, the RWQCB adopted WDR Order No. 90-046 which extended the time period for the interim disposal of incinerator ash at the Puente Hills Landfill. On March 4, 1991, the RWQCB adopted WDR Order No. 91-035 and amended MRP No. 2294 to include ash sampling, analyses, and reporting requirements. On November 1, 1993 the RWQCB adopted WDR Order No. 93-070 and MRP No. 7336 for the proposed Eastern Canyons expansion at the Puente Hills Landfill and revised MRP No. 2294 for existing waste disposal at Main Canyon and Canyon 9 such that the monitoring and reporting requirements for the existing site parallel that of the proposed expansion. Exhibit 2 shows the Main Canyon, Canyon 9, and proposed Eastern Canyon expansion.

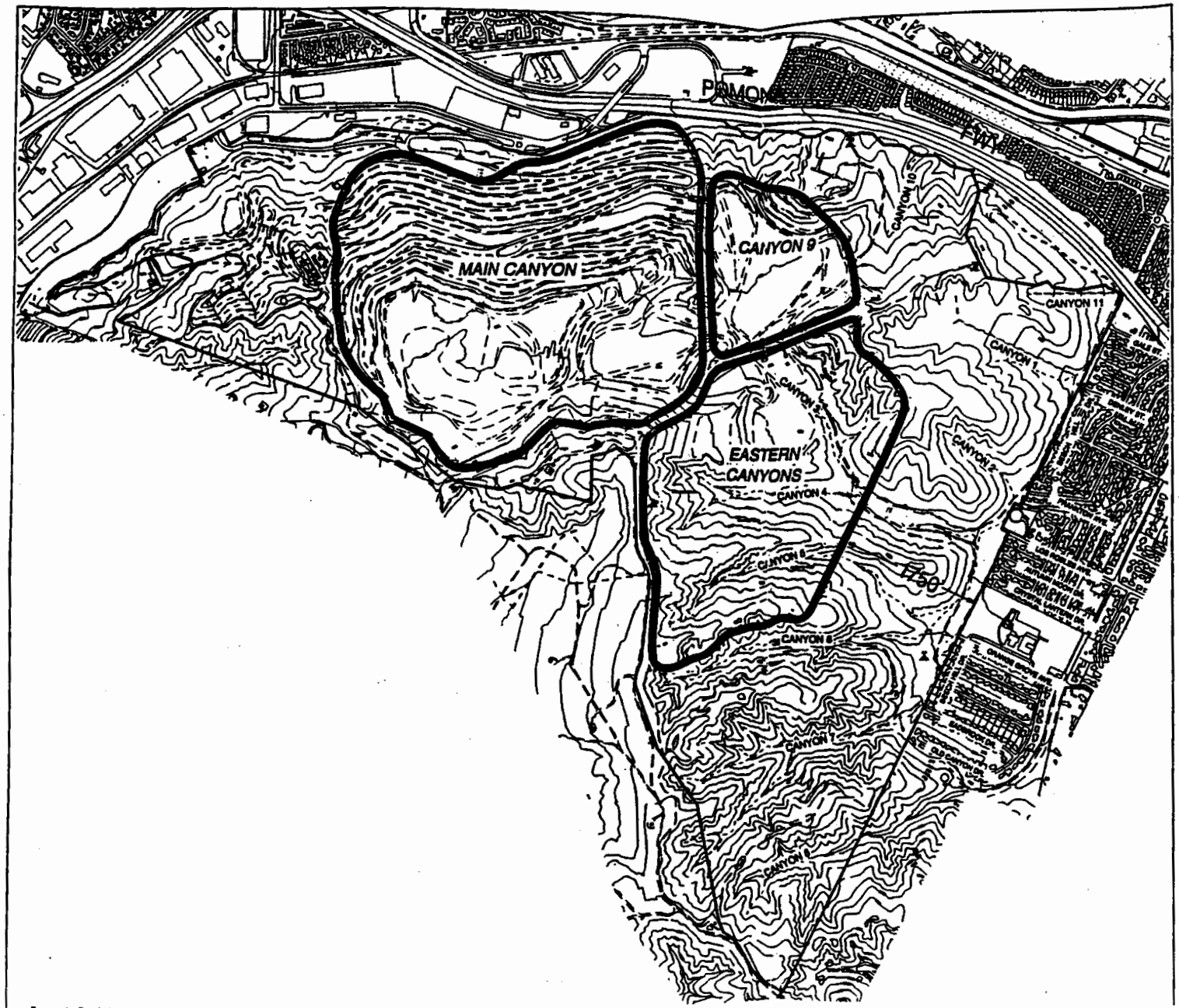
The Puente Hills Landfill is operated as a modified "cut and cover" landfill. As of December 31, 1993, approximately 65.4 million tons of refuse have been deposited since the Sanitation Districts began landfilling in 1970. Monthly waste disposal tonnages in 1993 are summarized in Table 1. Potable water is used on site for landscape irrigation and dust control; Table 2 summarizes the monthly water usage.

3.0 GEOLOGY AND HYDROGEOLOGY

3.1 Regional Geology and Hydrogeology

The Puente Hills Landfill is located on the northern tip of the western Puente Hills. A regional geologic map and cross sections including the Puente Hills Landfill area were produced by the USGS in 1949 based on field mapping and logs of deep (3,000 to 6,000 feet) oil and gas wells in the area. The geologic map and cross sections generated by the USGS in 1949 characterized northwest dipping bedrock units of the Pico, Repetto and Puente Formations beneath the site. The geologic map also documented an isolated bedrock outcrop of the Pico Formation north of the present day Puente Hills Landfill. This area is the area referred to as Avocado Heights.

In February, 1994, the Sanitation Districts commissioned a field surface mapping program to confirm the aerial extent and nature of the geologic materials which outcrop in the Avocado Heights area. The results of the field mapping are presented in Exhibit 3. The surface mapping indicated an area of alluvial materials directly north of the Puente Hills Landfill, referred to as the San Jose Gap. The alluvium was deposited by the San Jose Creek and by the small tributaries exiting the Puente Hills. North of the San Jose Gap, three outcrops of the Pico Formation were identified in the Avocado Heights area. The remainder of the area was characterized as undifferentiated mass wasting material, weathered bedrock, alluvium and colluvium. The occurrence of outcrops of Pico Formation in this area indicate that the Pico Formation bedrock may occur at a shallow depth beneath at least some of the Avocado Heights area. The occurrence of bedrock



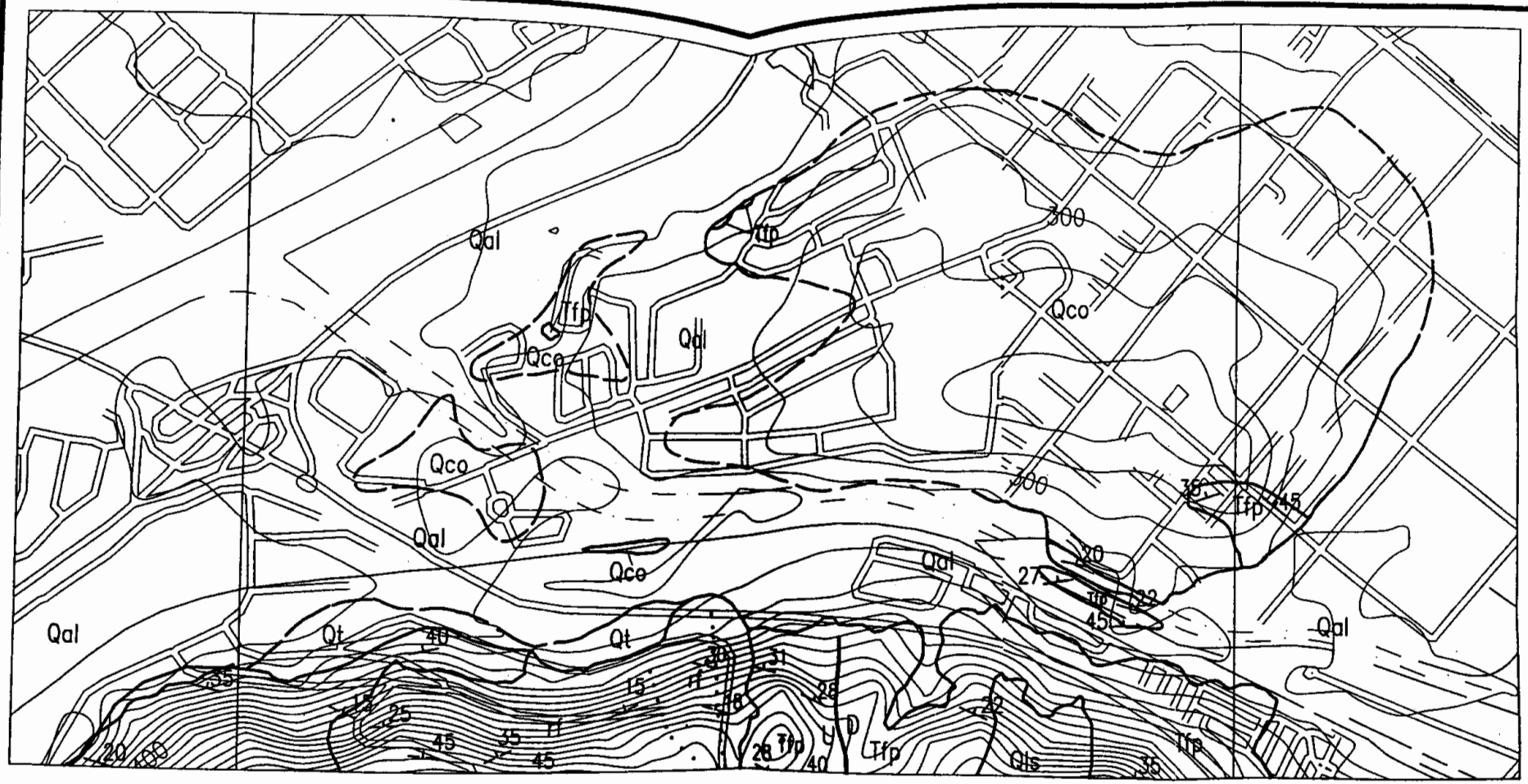
LEGEND

Property Boundary

Topography Dated May 1992.

EXHIBIT 2

Site Topography and Identified Site Areas



Qal | Qco | Qt

Qal – Unconsolidated alluvium. Gravelly and silty sands.
Qco – Unconsolidated colluvium. Mass wasting deposits of gravelly and silty sands, and in-situ soils derived from the Pico member of the Fernando Formation.
Qt – Unconsolidated terrace deposits. Silty sands.

Tfp

Tfp – Pico member of the Fernando Formation. Marine sandstones and siltstones with subordinate layers of conglomerate.

EXHIBIT 3

GEOLOGY OF SAN JOSE GAP

GeoLogic Associates
Geologists, Hydrogeologists, and Engineers

DRAWN BY:	DATE:	JOB NO.
RLG	2-4-94	9326

TABLE 1

SUMMARY OF WASTE DISPOSAL
FOR 1993
PUENTE HILLS LANDFILL

MONTH	NON-HAZARDOUS WASTE	INERT WASTE	TOTAL
JANUARY	291,010	69.5	291,080
FEBRUARY	281,828	87.9	281,916
MARCH	325,567	168.2	325,735
APRIL	313,311	169	313,480
MAY	296,111	179.2	296,290
JUNE	317,184	220.75	317,405
JULY	318,343	171.13	318,514
AUGUST	313,146	175.84	313,322
SEPTEMBER	306,793	245.98	307,039
OCTOBER	306,308	54.45	306,362
NOVEMBER	304,420	204.66	304,625
DECEMBER	303,442	107.62	303,550

Note: All units in tons.

TABLE 2

ESTIMATED POTABLE WATER USE DURING THE CALENDAR YEAR 1993

MONTH	WATER USE (MILLION GALLONS)
JANUARY	8.9
FEBRUARY	9.6
MARCH	12.0
APRIL	15.0
MAY	19.0
JUNE	19.0
JULY	23.6
AUGUST	21.1
SEPTEMBER	22.1
OCTOBER	17.2
NOVEMBER	17.1
DECEMBER	10.8

of the Pico Formation at and/or near the ground surface in the Avocado Heights area indicates that the area may exhibit lower permeabilities that the surrounding alluvial materials of San Jose Gap and adjacent groundwater basins.

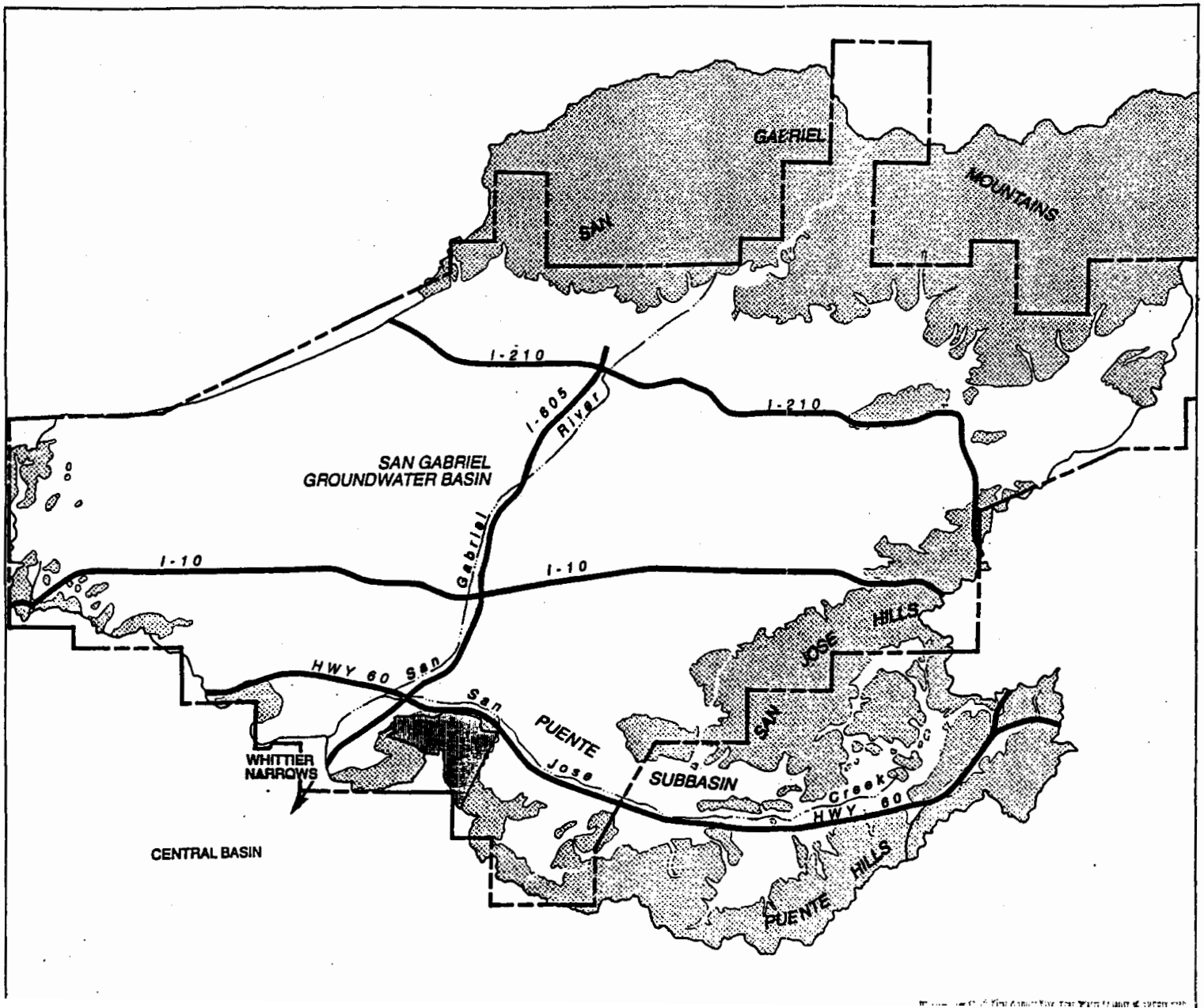
The San Gabriel Groundwater Basin (Basin) is located to the north and west of the Puente Hills Landfill and the Puente Sub-basin is located to the east of the Puente Hills Landfill (see Exhibit 4). Recharge to the Basin occurs by percolation of rainfall and stream flow, principally from the San Gabriel River, Rio Hondo and San Jose Creek. Artificial recharge also takes place in the Basin. Basin discharge occurs by groundwater pumping and outflow at the Whittier Narrows area. Groundwater elevation contours in these adjacent groundwater basins are presented in Exhibit 5. Groundwater flows out of the Puente Sub-basin toward the northeast around the bedrock of the Puente Hills in the vicinity of the Puente Hills Landfill and then flows southwest toward the Whittier Narrows.

Regional water levels measured in the Fall of 1990 are illustrated in Exhibit 6. Water levels in the San Gabriel Groundwater Basin north of the site range from about 200 to 220 feet above mean sea level (MSL). Water contours are shown to stop at the edge of the Avocado Heights area and do not extend to the edge of the north of the Puente Hills Landfill. Due to the limited number of basin wells east of the site, groundwater levels are not well defined as indicated by dashed contours.

3.2 Site Geology and Hydrogeology

The Puente Hills Landfill is underlain by a thick sequence of north-northwest dipping sedimentary marine bedrock units. Unconsolidated surfical deposits which can be found overlying bedrock units at the site include terrace deposits, alluvium, colluvium, landslide deposits, and artificial fill. Alluvium is found along narrow canyons which incise the bedrock formations. Canyons oriented toward the east are found along the eastern portion of the site while canyons along the northern portion of the site are oriented toward the north. Three canyons also existed in the Main Canyon area prior to landfilling as shown in Exhibit 7. As shown in Exhibit 7, Barriers One, Two and Three, installed along the north side of the site sever all historic drainages which contain landfill materials.

From oldest to youngest, the bedrock units found at the site consist of the Sycamore Canyon member of the Puente Formation, and the Repetto and Pico members of the Fernando Formation. The Sycamore Canyon member outcrops in the southern portion of the Eastern Canyons area. The Sycamore Canyon member is composed of a conglomerate/siltstone unit, two sandstone units, and two conglomerate units. The Repetto member outcrops in the central portion of the Eastern Canyons and underlies the southern landfill materials of Canyon 9 and the Main Canyon. The Repetto member is composed of two conglomerate units, a sandstone/siltstone unit and a siltstone unit. The Pico member occurs at the surface in the northern portion of the site and underlies



LEGEND

- Groundwater Basin Boundary
- Watershed Boundary
- Freeway
- Nonwater-bearing Bedrock
- Puente Hills Waste Management Facilities -Total Site 1,365 Acres, Landfill Footprint (Existing and Proposed) Covers Only 610 Acres

EXHIBIT 4

General Basin Geology

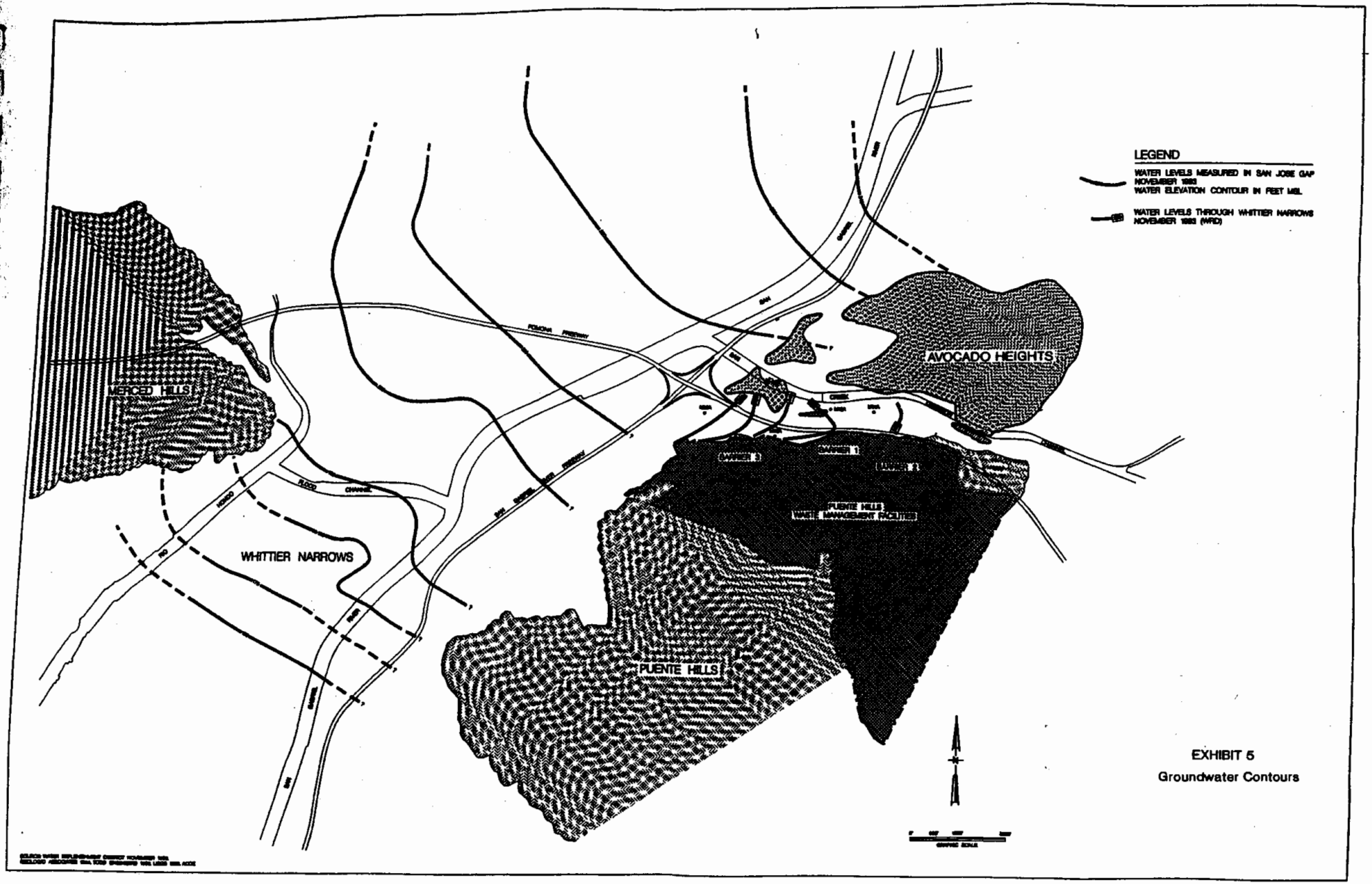
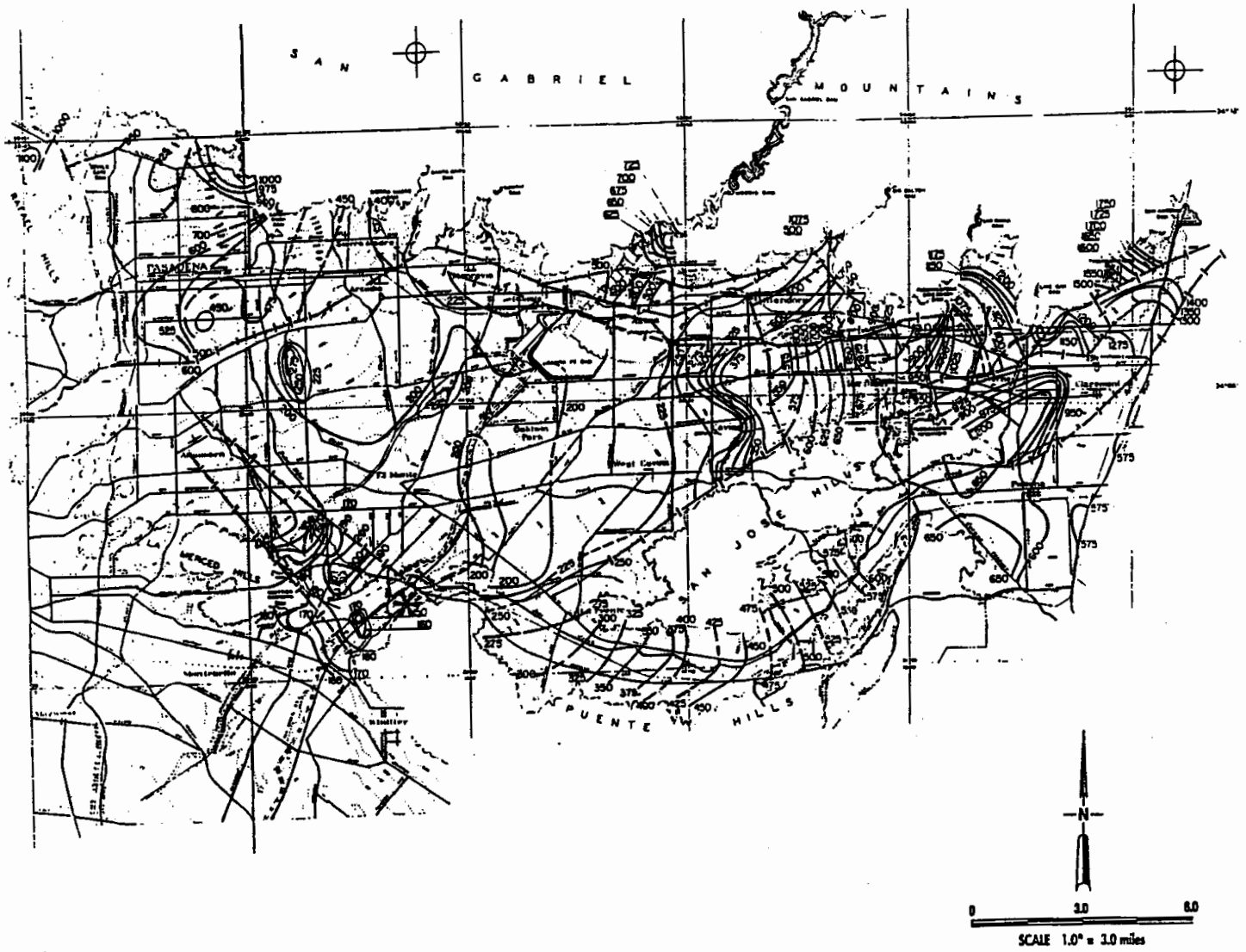


EXHIBIT 5
Groundwater Contours

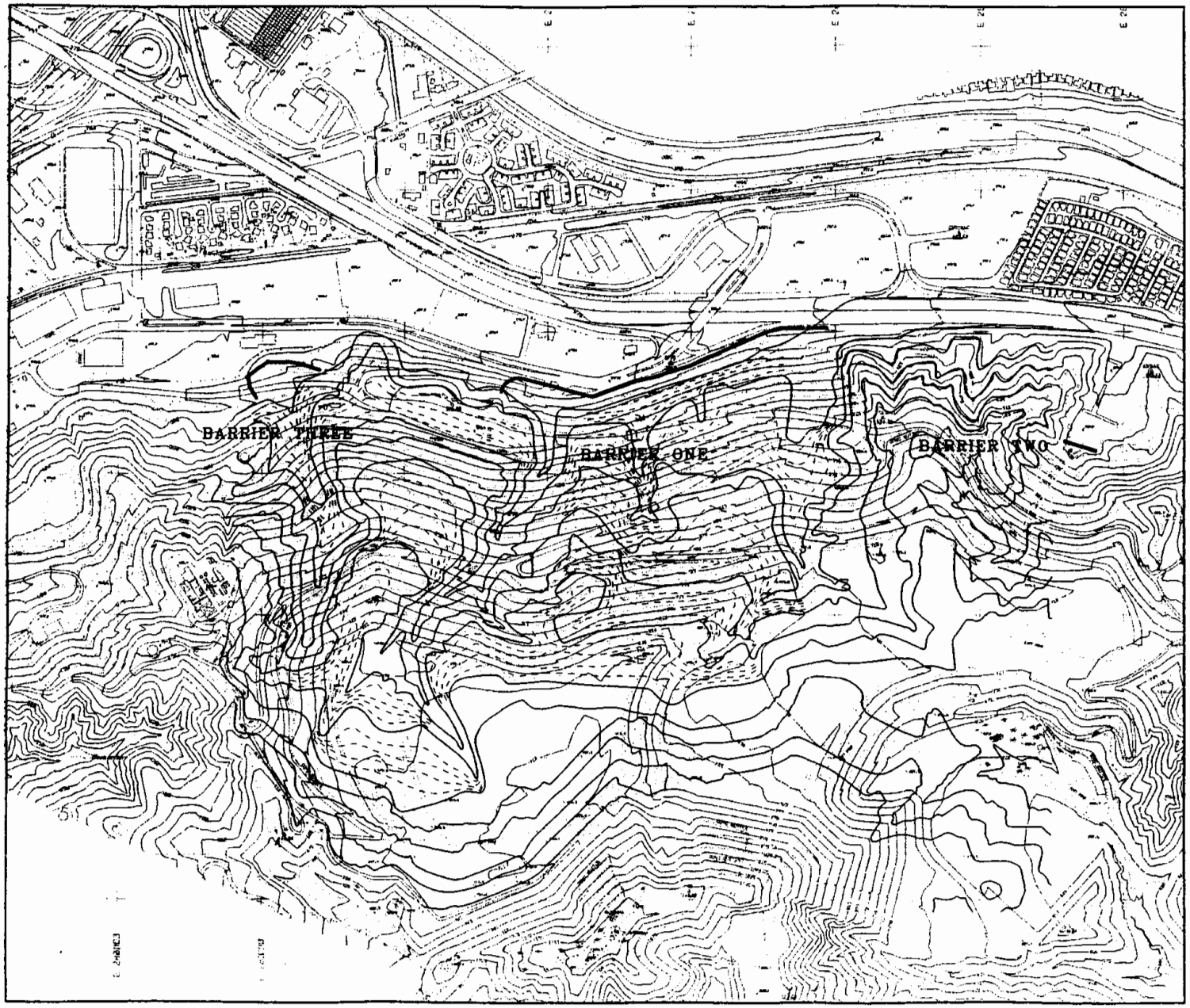


LEGEND

- Lines of Equal Groundwater Levels, (Interpolated Between Wells)
- Lines of Equal Groundwater Levels, (Location Approximate)
- Restrictions and/or Barriers to Groundwater Movement, Geologic and Hydrologic
- Ground Surface Contours
- Spreading Grounds
- Site Location

EXHIBIT 6

1990 Regional Groundwater Contours



LEGEND

Existing Subsurface Barrier

EXHIBIT 7

Cut Topography

landfill material in the northern portion of the Main Canyon and Canyon 9. The Pico member is made up of a conglomerate unit, a sandstone unit, an undifferentiated conglomerate, sandstone, and siltstone unit, and a siltstone unit.

Although the bedrock units are considered to be non-water bearing, small amounts of canyon water originate from seasonal rainfall permeation through the alluvium. The canyon water flow regime is delineated into three individual hydrogeologic microenvironments or subareas. These subareas are delineated on Exhibit 8.

Subarea 1 is located in the southeast corner of the site and is not contiguous to the present landfill development in the Main Canyon and Canyon 9. Canyon water is formed in the alluvial deposits in this region. This is due to the coarse nature of the alluvial soils and the anti-dip orientation of the drainage courses which result in limited percolation of direct precipitation of runoff into the bedrock. Subsurface outflow to the east of Subarea 1 appears minimal and is thought to be confined to the interconnection of onsite alluvium with adjoining offsite older alluvium/terrace deposits of the Puente Sub-basin.

Subarea 2 is located in the northeast area of the landfill site. This subarea is characterized by the absence of free water in the canyon alluvial deposits. Groundwater occurrence is confined to transmissive coarse sandstone and sandstone-conglomerate units in the bedrock. However, the transmissive sandstone strata are confined by extensive siltstone aquitards which effectively bar continuity with the San Gabriel Groundwater Basin. The degree of subsurface outflow, therefore, is limited by overlying siltstone strata which confine the bedrock water below the alluvial material of the San Gabriel Groundwater Basin. Canyon 9, a northern canyon in this subarea, is cut off by an approximately 190 foot long cement-bentonite subsurface barrier (Barrier 2).

Subarea 3 is located in the western portion of the landfill site. These canyon areas are characterized by very low permeability siltstone beds. Potential subsurface outflow in this area is limited to several canyons that exit toward the northern area of the site. Potential outflow from these canyons, however, has been controlled by the placement of two subsurface barriers. The westernmost canyon is cut off by an approximately 750 foot long cement-bentonite subsurface Barrier (Barrier 3). The more eastern canyons are cut off by an approximately 2,400 foot long cement-bentonite subsurface barrier (Barrier One). Canyon waters are removed by the extraction wells at both subsurface barriers and are discharged to the sewer system pursuant to industrial waste discharge permits. The locations of the three subsurface barriers are indicated on Exhibit 8.

4.0 FACILITY CHANGES

In 1993, the Sanitation Districts installed a cement-bentonite barrier (Barrier 3) and extraction and monitoring wells up- and downgradient of Barrier 3, respectively. This

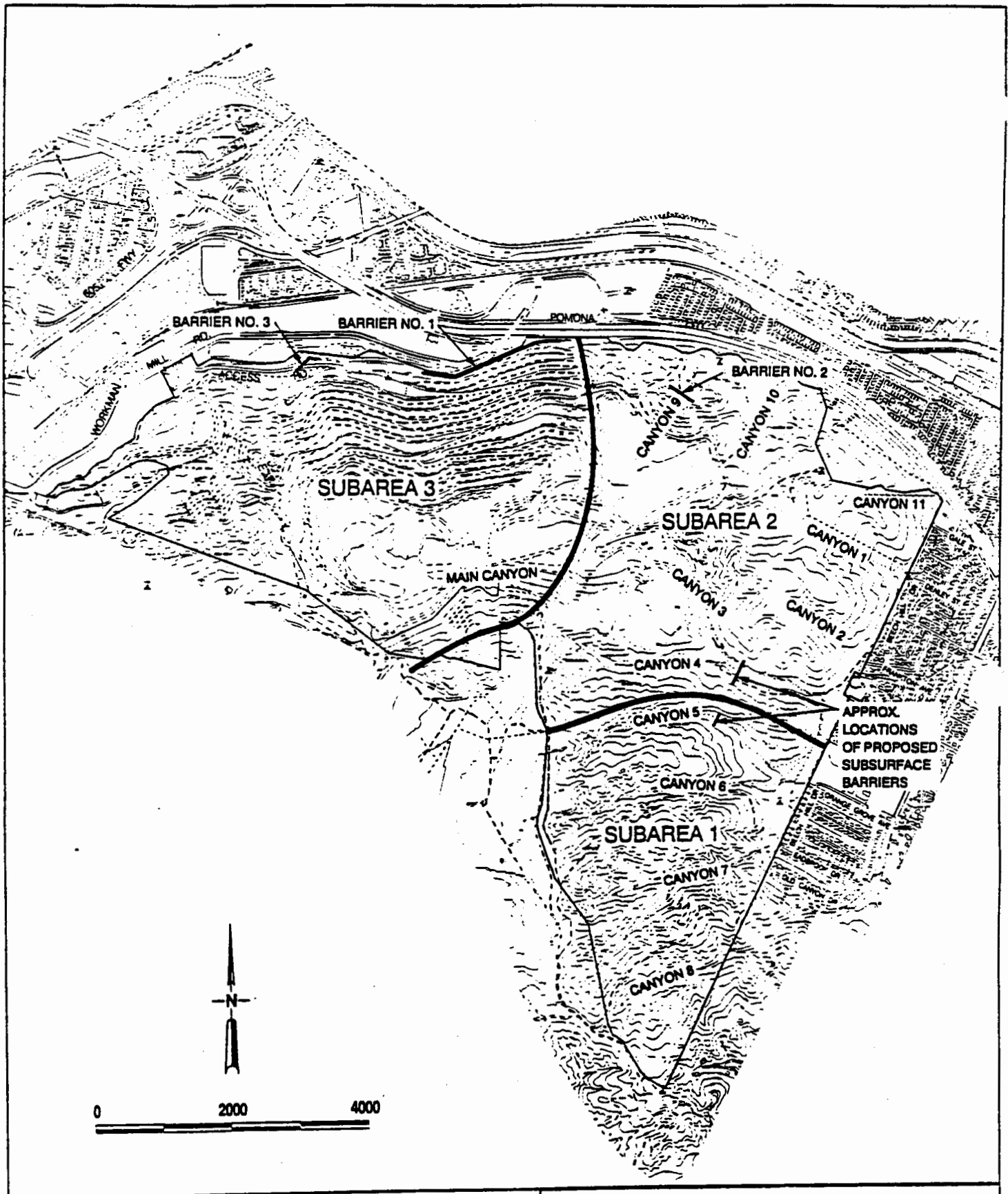


EXHIBIT 8

Hydrogeologic Subareas

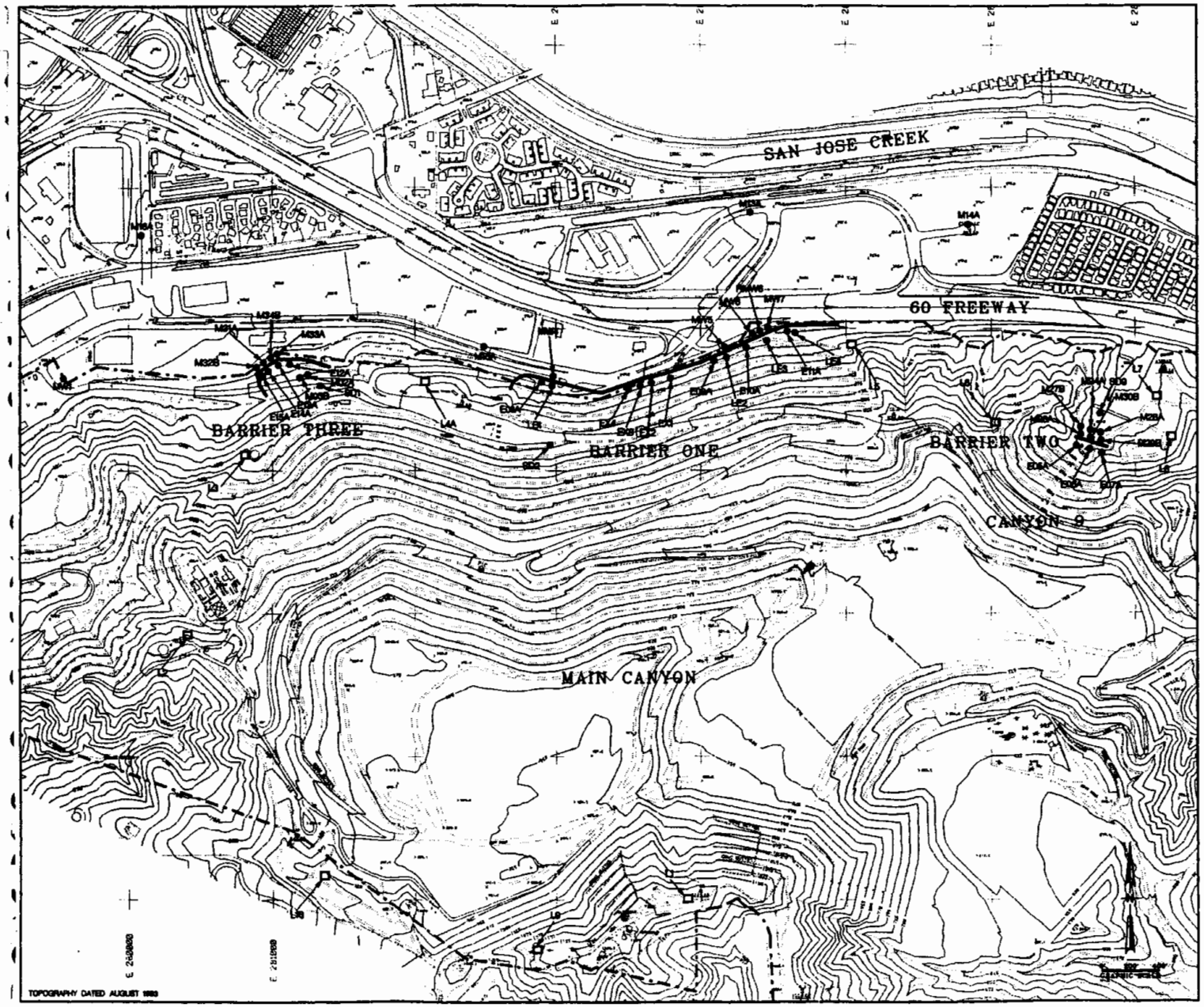
project was requested by the RWQCB in 1990 because low levels of volatile organic compounds were detected at two monitoring wells downgradient of the clay barrier. Exploratory boreholes were drilled in 1991 to obtain geologic information for Barrier 3 design. Design plans and specifications for this project were prepared by the Sanitation Districts, and submitted to RWQCB for review in October 1992. The RWQCB approved the project in a letter dated December 14, 1992. Construction began in February 1993 and was completed in August 1993. As part of the project, four extraction wells (E12A, E13A, E14A, and E15A) and four monitoring wells (alluvial wells M31A and M33A, and bedrock wells M32B and M34B) were also installed. These newly installed Barrier 3 downgradient wells have been monitored since their installation; monitoring of wells M02A and M03B was discontinued after the second quarter of 1993 since their monitoring functions were replaced by the new monitoring wells. Constructions of Barrier 3 and the associated wells were supervised by an independent construction quality assurance consultant; construction quality assurance plan for the project had been approved by the RWQCB before constructions commenced. During the project, it was observed bedrock monitoring well M34B had a bad seal between the alluvium and bedrock. Therefore the Sanitation Districts will require the contractor to replace this well. As-built drawings of Barrier 3 and the associated wells and the construction quality assurance report were submitted to the RWQCB on March 1, 1994.

Moisture was observed during a gas wells installation project in a small area upgradient of Barrier 1 following heavy rainfall in early 1993. Although the wet area did not begin to seep, the Sanitation Districts proposed in the March 1993 Technical Report to install temporary extraction wells to alleviate excess moisture caused by the unusual climatic conditions. Four extraction wells (EX1, EX2, EX3, and EX4) were installed in April 1993. The installation of these wells was reported to the RWQCB in the April 1993 Technical Report. Water extracted from these wells was discharged to the sewer system pursuant to an existing industrial waste discharge permit. As-built drawings for these wells were submitted to the RWQCB pursuant to the WDR.

5.0 WATER QUALITY MONITORING FACILITIES

During 1993, the following water quality monitoring facilities (see Exhibit 9 and Exhibit 10 for locations) were monitored:

- Background monitoring wells (M17A, M18A, M19B, and M23A);
- Barrier 1 downgradient monitoring wells (MW4, MW5, RMW6, and MW7);
- Barrier 1 extraction wells (LE1, LE2, LE3, LE4, E08A, E09A, E10A, E11A, EX1, EX2, EX3, and EX4);
- Barrier 2 downgradient monitoring wells (M24A, M26A, M27B, M28A, M29B, and M30B);
- Barrier 2 extraction wells (E05A, E06A, and E07A);



LEGEND

- Monitoring Well
- Existing Subsurface Barrier

EXHIBIT 9

Water Quality Monitoring Locations

- Barrier 3 downgradient monitoring wells (M31A, M32B, M33A, M34B, and MW1);
- Clay barrier downgradient monitoring wells (M02A and M03B);
- Barrier 3 extraction wells (E12A, E13A, E14A, and E15A);
- Unsaturated zone lysimeters (L2, L3, L4A, L5, L6, L7, L8, L9, and L10);
- Offsite monitoring wells (M13A, M14A, M15A, and M16A);
- Canyon 9 liquid collection and removal system (LCRS);
- Runoff monitoring locations (SD1, SD2, and SD9).

5.1 Background Monitoring Wells

Wells M17A, M18A, M19B, and M23A are background monitoring wells located in three canyons to the east of the site. Wells M17A, M18A, and M23A monitor canyon alluvium waters which are geochemically similar to waters upgradient of Main Canyon and Canyon 9. Well M19B monitors background water quality in bedrock of the Repetto Formation. In 1993, well M23A detected water for the first time since its installation.

These background monitoring wells were proposed by the Sanitation Districts in 1987 to obtain background water quality. The selection of these background wells was based on the following criteria: (1) these wells were close to the landfill but hydraulically separate from, and beyond the influence of, the landfill; (2) these wells provided a reasonable indication of the effects of natural soils and strata on the subsurface water quality; and (3) at least four quarters of monitoring data were available from these wells which allowed for statistical derivation of groundwater quality protection standards. These selection criteria were based on the requirements in Title 23, Subchapter 15, Article 5, Section 2552 (b) of California Administrative Code, which stated: "For an existing waste management unit, the background concentration shall be determined from nearby wells beyond the influence of the unit." The use of these background wells was approved by the RWQCB.

5.2 Barrier 1 Downgradient Monitoring Wells

Barrier 1 downgradient wells include wells MW4, MW5, RMW6, and MW7. Wells MW4, MW5, and MW7 wells are situated in alluvium and RMW6 is in the alluvium/weathered Pico Formation immediately downgradient of Barrier 1. As described in **Puente Hills Landfill Annual Report for 1992**, well RMW6 was installed in 1992 to replace well MW6 which contained insufficient water to obtain representative samples.

5.3 Barrier 1 Extraction Wells

Composite samples of canyon waters extracted from twelve extraction wells (LE1, LE2, LE3, LE4, E08A, E09A, E10A, E11A, EX1, EX2, EX3, and EX4) located immediately upgradient of Barrier 1 were collected and analyzed in 1993. The canyon water extraction system upgradient of Barrier 1 automatically engages submersible pumps to remove any canyon waters built-up against the barrier. Results of analyses performed on the composite samples are included in this report and designated as LE-. Table 3 summarizes the quantities of canyon waters extracted from Barrier 1 extraction wells.

5.4 Barrier 2 Downgradient Monitoring Wells

Wells M24A, M26A, M27B, M28A, M29B, and M30B are situated in alluvium and bedrock of the Pico Formation immediately downgradient of Barrier 2 at the mouth of Canyon 9. No canyon water has been observed in alluvial monitoring wells M26A, M28A, and M30B during 1993. Water was observed, however, in the three bedrock monitoring wells M24A, M27B, and M29B.

5.5 Barrier 2 Extraction Wells

Extraction wells E05A, E06A, and E07A are located in the deepest portion of the alluvium downgradient of the Canyon 9 fill area. A composite liner underlies the entire Canyon 9 area. The three extraction wells have been dry since their installation in 1988.

5.6 Barrier 3 Downgradient Monitoring Wells

Wells M31A, M32B, M33A, and M34B are situated downgradient of Barrier 3. Wells M31A and M33A are completed in alluvium, while wells M32B and M34B are completed in bedrock of the Pico Formation. These wells were installed in 1993 with Barrier 3 (see Section 4.0). These wells replace the monitoring capacity of clay barrier downgradient wells M02A and M03B.

Well MW1 is located in the alluvium downgradient of the Puente Hills Landfill. Although this well was not specified in the WDR as a compliance point, the RWQCB requested in 1990 that it be monitored to provide reference information about groundwater quality downgradient of the Puente Hills Landfill.

TABLE 3

BARRIER EXTRACTION WELLS
AND LIQUIDS COLLECTION REMOVAL SYSTEM
PUMPING VOLUMES FOR THE CALENDAR YEAR 1993

MONTH	BARRIER ONE	BARRIER THREE	LCRS
JANUARY	299,590		14,519
FEBRUARY	310,991		15,920
MARCH	344,004		10,707
APRIL	515,974		6,240
MAY	574,376		5,679
JUNE	457,580		6,039
JULY	425,228		6,836
AUGUST	426,344	94,369	8,390
SEPTEMBER	479,479	551,737	8,086
OCTOBER	456,381	745,711	6,754
NOVEMBER	361,989	656,927	8,491
DECEMBER	452,551	557,749	9,068

Note: All gallons per month.

5.7 Clay Barrier Downgradient Wells

Wells M02A and M03B were monitored in the first two quarters of 1993 before Barrier 3 was installed. These wells are upgradient of Barrier 3. The monitoring function provided by these wells was replaced by Barrier 3 downgradient monitoring wells M31A, M32B, M33A, and M34B. Therefore these wells were no longer monitored after the second quarter of 1993.

5.8 Barrier 3 Extraction Wells

Composite samples of canyon waters extracted from four extraction wells (E12A, E13A, E14A, and E15A) located immediately upgradient of Barrier 3 have been collected and analyzed since August 1993. The canyon water extraction system upgradient of Barrier 3 automatically engages submersible pumps to remove any canyon waters built-up against the barrier. Results of analyses performed on the composite samples (designated as EW3-) are included in this report. The quantities of canyon water extracted from Barrier 3 extraction wells are also summarized in Table 3.

5.9 Unsaturated Zone Lysimeters

An unsaturated zone monitoring system consisting of ten lysimeters (L1, L2, L3, L4A, L5, L6, L7, L8, L9, and L10) and three neutron probe access tubes were installed in 1987 at the Puente Hills Landfill. The system was designed to provide early warning of potential migration of contaminants in the unsaturated zone. Lysimeter L1 was vandalized in 1991. No water had ever been detected in this lysimeter, nor is it a point of compliance. Therefore this lysimeter was not replaced. No water was collected by Lysimeters L2, L8, L9, and L10 during 1993. Lysimeters L3, L4A, L5, L6, and L7 occasionally collected sufficient volume of samples for metals and volatile organic compounds analyses in 1993.

Lysimeters L2, L3, and L5 are listed on MRP No. 2294 as points of compliance. Lysimeter L3 and L5 are located downgradient of the Main Canyon area. Lysimeter L2 is located immediately outside the western region of the main fill area; it has not collected any water since installation.

5.10 Offsite Monitoring Wells

Four offsite monitoring wells (M13A, M14A, M15A, and M16A) were installed in 1987 to obtain information about offsite groundwater quality. These wells are not specified by the RWQCB to be points of compliance in the WDR. Therefore they are not monitored routinely. Well M16A is located in the alluvium that is hydraulically

downgradient of the Puente Hills Landfill. Any potential water quality impacts to groundwater systems downgradient of the Puente Hills Landfill, for example, Whittier Narrows and Central Basin, as a result of the site operations may be indicated from monitoring of this well.

5.11 Canyon 9 Liquid Collection And Removal System

A liquid collection and removal system (LCRS) was installed as part of the composite liner system in Canyon 9 of the Puente Hills Landfill. Water collected from LCRS was treated in a clarifier before being discharged to the sewer system pursuant to an industrial waste discharge permit. Quantities of water collected from the LCRS during 1993 are summarized in Table 3.

5.12 Runoff Monitoring Locations

The drainage system at the Puente Hills Landfill is designed to control runoff and keep it from ponding within the site. In 1992, the Sanitation Districts prepared a Storm Water Pollution Prevention Plan (SWPPP) for the Puente Hills Landfill pursuant to the California General Permit requirements for compliance with the National Pollutant Discharge Elimination System (NPDES) rules. The SWPPP calls for the use of best management practices to minimize the potential for runoff contamination by landfill operations. To fulfill the requirements of the General Permit and to determine the effectiveness of the best management practices, a runoff monitoring program was developed in December 1992 by the Sanitation Districts. The implementation of this program began in 1993 in conjunction with the runoff monitoring program designed to collect background data for compliance with requirements in revised Article 5, Chapter 15, Title 23 of the California Code of Regulations. Two sets of samples were collected from three downgradient monitoring locations in 1993.

6.0 WATER QUALITY

Water quality monitoring results for 1993 are presented in Appendix A of this report. Tabulated monitoring data, and graphs for constituents which were analyzed during three or more monitoring periods throughout the year and were detected above the detection limit for at least one of those periods, are included and grouped by locations as follows:

- Background monitoring wells (M17A, M18A, M19B, and M23A);
- Barrier 1 downgradient monitoring wells (MW4, MW5, RMW6, and MW7);
- Barrier 2 downgradient monitoring wells (M24A, M27B, and M29B);
- Barrier 3 downgradient monitoring wells (M31A, M32B, M33A, and M34B);

- Clay barrier downgradient wells (M02A and M03B);
- Offsite monitoring wells (M13A, M14A, M15A, and M16A);
- Unsaturated zone lysimeters (L3, L4A, L5, L6, and L7);
- Runoff monitoring locations (SD1, SD2, and SD9);
- Barrier 1 extraction wells composite (LE-);
- Barrier 3 extraction wells composite (EW3-);
- Canyon 9 liquid collection and removal system (LCRS);
- Equipment and trip blanks (BLNK or EQIP).

A computer diskette containing all monitoring results collected in 1993 is included in the transmittal of this report to the RWQCB in compliance with the WDR. Incomplete analyses were the result of insufficient sample volume.

Water quality parameters are discussed according to the following categories: (1) general parameters (pH, conductivity, suspended solids, total dissolved solids, hardness, cations, anions, and organic matter); (2) field filtered metals; (3) volatile organic compounds; (4) base neutral/acid extractable compounds; and (5) pesticides. Data are analyzed to identify statistical outliers which may be due to sampling anomalies or laboratory errors. Outliers are included in this report and are presented in tabular and graphical data summary, but are excluded from further evaluation or statistical analyses.

Monitoring results are compared with applicable groundwater quality protection standards in the WDR. Downgradient levels are also compared against background levels as determined from the site background wells and experimental studies conducted by the Sanitation Districts (see Section 6.2 below) as the WDR specified groundwater quality protection standards may not reflect the full range of background water quality conditions. For some monitored water quality parameters, there are maximum contaminant levels (MCLs) which are regulatory limits set for constituents in water based on conservative exposure assumptions and public health risks. The MCLs are convenient, albeit very conservative, regulatory levels for use in a landfill monitoring plan because the naturally occurring canyon water at the Puente Hills Landfill is not suitable as a drinking water supply source based on quantity (non-water bearing) and quality considerations. As discussed below in Section 6.2, site background water quality contains high salinity and heavy metals exceeding drinking water standards.

6.1 San Gabriel Groundwater Basin Water Quality

Before a discussion of 1993 site groundwater quality, it is relevant to first discuss water quality in the San Gabriel Groundwater Basin (Basin). Water in the Basin is used extensively for residential, industrial, and agricultural purposes. The water is essentially calcium bicarbonate rich but local variations do exist. These variations can be attributed to industrial, agricultural and other land uses. General ground water quality in the Basin is considered good. However, local groundwater problems have been identified.

An increasing trend in total dissolved solids (TDS) in the Basin has been observed over the past several decades. The increase can be related to factors which include agricultural and industrial discharges. Another problem has been nitrate contamination. Areas of groundwater in the Basin have contained levels of nitrate in exceedance of the drinking water standards. Although no specific sources have been identified, septic tank leachate and increased fertilizer usage are thought to be among the many speculated sources.

Groundwater contaminated with volatile organic compounds (VOCs) was first detected in the Basin during environmental monitoring activities conducted by Aerojet Electrosystems near Azusa. Trichloroethylene (TCE) was detected in relatively large quantities in one well, and as a result, an intensive water quality monitoring program in wells not associated with the Sanitation Districts was initiated. Monitoring results revealed four plumes of contamination by volatile organic compounds consisting of TCE, tetrachloroethylene (PCE), and carbon tetrachloride (CTC), and prompted the placement of the Basin on the Environmental Protection Agency (EPA) Superfund list in 1984. The four areas were defined based on water quality data available at the time of listing. Subsequent water quality sampling has shown that VOC contamination above drinking water standards is pervasive throughout the entire Basin. EPA currently manages all of the San Gabriel Groundwater Basin as one project with six operable units (Whittier Narrows, Baldwin Park, Richwood, El Monte, South El Monte, and Puente Valley) under its Remedial Investigation (RI) program. To date, more than 100 wells have been found to have varying concentrations of PCE, TCE, and CTC and other organic chemicals. These compounds are commonly used degreasers and cleaning solvents. The EPA has focused its evaluation of the groundwater contamination on the six most commonly occurring VOCs in the Basin groundwater: 1,1,1-trichloroethane (TCA), 1,1-dichloroethylene, 1,2-dichloroethane, TCE, PCE, and CTC although over 200 other organic compounds have also been monitored by EPA. Industrial activities have been identified by EPA to be the sources of the VOC contamination in the Basin. VOCs are present at levels exceeding the drinking water standards both hydraulically upgradient and downgradient of the Puente Hills Landfill.

6.2 Site Background Water Quality

Onsite canyon water is uniformly poor in quality primarily due to contact with naturally occurring mineral salts and organics inherent to marine formations of the region. Mineral salts of calcium, magnesium, and sodium elevate the dissolved solids level and produce a water that is characteristically "hard." Organic residues from marine detritus contribute to elevated COD and oil and grease levels of the water.

The ranges of background water quality conditions at the Puente Hills Landfill are determined by monitoring of four wells (M17A, M18A, M19B, and M23A) not affected by landfill operations and from results of two experimental studies conducted by the

Sanitation Districts. The basis of using experimental studies to obtain background water quality is described in Title 23, Chapter 15, Article 10, Section 2601 of California Code of Regulations which defines background as "the concentrations or measures of constituents or parameters in the water or soil that has not been affected by waste constituents or leachate from the waste management unit being monitored." Background water quality could vary spatially and seasonally as a result of diverse hydrologic and geochemical processes at the Puente Hills Landfill. Hydrologic processes include the seasonal recharge and drainage of alluvial and bedrock formations and the gradual movement and blending of formation waters. Geochemical processes comprise a variety of reactions within rocks and sediments including simple solubilization of salts, equilibria and ion exchange phenomena, irreversible weathering processes, interactions with atmospheric and soil gases, and oxidation or reduction of solid and soluble species. Experimental studies are useful for exploring the variability of background water quality and supplementing background water quality information obtained from background wells.

During 1984, the Sanitation Districts pioneered a study to determine the effect of native sediments on background water quality at the Puente Hills Landfill. Four samples of native soils and bedrock were obtained from areas of the Puente Hills Landfill not affected by waste disposal operations. These samples were extracted with deionized water for approximately three months, which was the amount of time required to establish equilibrium conditions as defined by conductivity. The water samples were then analyzed for major water quality parameters. The results indicated elevated levels of total dissolved solids (TDS), oil and grease, and organic matter. The presence of these constituents reflects the marine origin of the formations at the site. The residual salinity in the formations is evidenced by the high TDS and conductivity levels. Elevated levels of oil and grease and organic matter identified in the samples are due to the breakdown of marine detritus which was deposited in the formations.

A comprehensive mineral leaching study, which was an extension of the 1984 soil equilibrium study, was conducted from 1989 to 1993 to further augment monitoring data collected from the background monitoring wells and the 1984 soil equilibrium study. The mineral leaching study for the Puente Hills Landfill was initiated in 1989 using soil samples collected between 1987 and 1989. Approximately 40 laboratory reactors containing representative soil samples from nine locations at the Puente Hills Landfill were set up. The samples were saturated with deionized water for a period of a few months to a few years. The water was periodically monitored for conductivity until equilibrium conditions, indicated by relatively constant conductivity readings, were established in the reactors. After equilibrium conditions were reached, the water was filtered with a 0.45-micron filter and analyzed.

Details of the mineral leaching study are included in **Mineral Leaching Study Report, Puente Hills Landfill** (1993) prepared by the Sanitation Districts. This report is being separately submitted to the RWQCB. Results from the mineral leaching study, however, are summarized in Table 4 along with results from background monitoring wells

and the 1984 soil equilibrium study. Also summarized in Table 4 are the complete ranges of background water quality conditions observed at the Puente Hills Landfill including both field and experimental results. These results indicate wide ranges of naturally occurring local extreme conditions for the site for various water quality indicator parameters and confirm that the naturally occurring groundwater at the Puente Hills Landfill is not a suitable drinking water source because of naturally high salinity and heavy metals levels. Specifically, eight heavy metals (antimony, arsenic, beryllium, cadmium, chromium, lead, nickel, and selenium) may be naturally present at levels in excess of their MCLs based on the background water quality monitoring and studies.

6.3 Site Water Quality - General Parameters

In 1993, the levels of general water quality parameters found in monitoring wells downgradient of the Puente Hills Landfill were within the range of background water quality summarized in Table 4. It should be noted that the groundwater quality protection standards in the WDR are 5,000 mg/L for TDS, 3,500 mg/L for sulfate, 220 mg/L for chloride, and 2.0 mg/L for boron. Table 4 indicates that these standards do not cover the full range of background water quality. Levels of TDS, sulfate, chloride, and boron have been determined from background monitoring to be as high as 9,490, 7,200, 260, and 2.8 mg/L, respectively. Monitoring results for general parameters do not indicate leachate formation and migration at the Puente Hills Landfill.

6.4 Site Water Quality - Field Filtered Metals

Both unfiltered and field filtered water samples were collected in 1993, as required by the WDR, and were analyzed for 16 heavy metals. These metals include arsenic, antimony, barium, beryllium, cadmium, total chromium, hexavalent chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. Unfiltered samples were analyzed for total metals while field filtered samples were analyzed for soluble metals. Because the geologic formations being monitored contain high silt and clay contents, high levels of suspended solids were often present in the groundwater samples. The suspended solids in the groundwater samples consist of marine clays and silts which naturally contain metals from the erosion of feldspar and ferromagnesium parent rocks. These minerals undergo weathering processes and a small fraction of their associated metals dissolve. The degree of solubilization depends on the solubility of the metal and the surrounding physical and chemical conditions. The undissolved metals remain associated with the sediment. Because of the low solubility of the metals, a small amount of suspended solids in a groundwater sample will "mask" the dissolved constituent levels when the total metal concentration is analyzed using an unfiltered sample. Therefore, the results of total metal concentration analyses are merely a reflection of the suspended solids levels in the groundwater and will not indicate actual changes in groundwater chemistry which potentially results from the landfill. For this reason, the evaluation of

TABLE 4

PUENTE HILLS LANDFILL BACKGROUND GROUNDWATER QUALITY
RANGE OF BACKGROUND WATER QUALITY CONDITIONS AS REPRESENTED BY BACKGROUND WELLS AND EXPERIMENTAL STUDIES

CONSTITUENTS	UNITS	BACKGROUND WELLS (M17A, M18A, M19B, M23A)	1984 SOIL EQUILIBRIUM STUDY RESULTS	1983 MINERAL LEACHING STUDY RESULTS	OVERALL BACKGROUND RANGE (See Note)
GENERAL					
PH	PH	4.34 - 8.32	6 - 6.7	4.18 - 7.99	4.18 - 8.32
CONDUCTIVITY	UMHOS/CM	2260 - 5500	643 - 9310	284 - 9330	284 - 9330
TOTAL DISSOLVED SOLIDS	MG/L	1781 - 5957	420 - 9490		420 - 9490
SUSPENDED SOLIDS	MG/L	1 - 3330	53 - 1290		1 - 3330
TOTAL CYANIDE	MG/L	< 0.01 - 0.02			< 0.01 - 0.02
TOTAL SULFIDE	MG/L	< 0.1 - 0.1			< 0.1 - 0.1
TOTAL HARDNESS	MG/L	913 - 3380	420 - 5990	67 - 6983	67 - 6983
TOTAL PHOSPHATE	MG/L	0.2 - 19.8	0.33 - 11	0.01 - 0.5	0.01 - 19.8
PHENOLS	MG/L	< 0.001 - 0.13	0.008 - 0.03		< 0.001 - 0.13
BORON	MG/L	0.13 - 1.5	< 0.9 - 1.1	0.05 - 2.8	0.05 - 2.8
ANIONS					-
NITRATE NITROGEN	MG/L	< 0.01 - 22.3	0.2 - 1	0.01 - 19.19	< 0.01 - 22.3
SULFATE	MG/L	594 - 4000	40 - 5990	13 - 7200	13 - 7200
CHLORIDE	MG/L	69 - 260	26 - 84.2	8 - 220	8 - 260
TOTAL ALKALINITY	MG/L	299 - 856	210 - 343	12 - 470	12 - 856
BICARBONATE ALKALINITY	MG/L	299 - 856			299 - 856
FLUORIDE	MG/L	0.43 - 3.23		0.3 - 6	0.3 - 6
CATIONS					
CALCIUM-HARDNESS	MG/L	457 - 1360	330 - 2890	45 - 1650	45 - 2890
MAGNESIUM-HARDNESS	MG/L	316 - 2050	77 - 3220	20 - 5833	20 - 5833
SODIUM	MG/L	189 - 563	20 - 170	16 - 1200	16 - 1200
POTASSIUM	MG/L	4 - 13	9 - 44	2 - 55	2 - 55
IRON	MG/L	< 0.02 - 15.5	1.9 - 36.2	0.04 - 0.7	< 0.02 - 36.2
MANGANESE	MG/L	< 0.01 - 14.2	1.8 - 3.69	0.01 - 15	< 0.01 - 15
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L	< 0.01 - 2.3	1.7 - 5.9	0.1 - 6.7	< 0.01 - 6.7
TOTAL BOD	MG/L	< 1 - 6			< 1 - 6
SOLUBLE BOD	MG/L	< 1 - 6.9	< 2.8 - <4.5		< 1 - 6.9
TOTAL COD	MG/L	< 1 - 59		5 - 120	< 1 - 120
SOLUBLE COD	MG/L	< 1 - 40	61 - 150		< 1 - 150
TOTAL ORGANIC CARBON	MG/L	1.6 - 13	23.6 - 134	3.2 - 64	1.6 - 134
TANNIN & LIGNIN	MG/L	0.02 - 1.3	1.4 - 3		0.02 - 3
OIL & GREASE	MG/L	< 0.91 - 4	150 - 1430		< 0.91 - 1430
TOTAL ORGANIC HALOGEN	MG/L	< 0.08 - 52			< 0.08 - 52
METALS					
ARSENIC	MG/L	< 0.001 - 0.003	0.0096 - 0.06	0.002 - 0.01	< 0.001 - 0.06
BARIUM	MG/L	< 0.02 - 0.11		0.01 - 0.09	< 0.02 - 0.11
CADMIUM	MG/L	< 0.005 - 0.05	< 0.005 - 0.011	0.001 - 0.06	< 0.005 - 0.06
TOTAL CHROMIUM	MG/L	< 0.02 - 0.15	< 0.03 - <0.06	0.005 - 0.12	0.005 - 0.15
HEXAVALENT CHROMIUM	MG/L	< 0.02 - <0.02			< 0.02 - <0.02
COBALT	MG/L	< 0.04 - 0.42			< 0.04 - 0.42
COPPER	MG/L	< 0.002 - 0.16	0.041 - 0.16	0.02 - 0.05	< 0.002 - 0.16
LEAD	MG/L	< 0.04 - 0.04	0.2 - 0.3	0.002 - 0.04	0.002 - 0.3
MERCURY	MG/L	< - 0.0004	0.0006 - 0.0014	0.0001 - 0.002	0.0001 - 0.002
NICKEL	MG/L	< 0.03 - 1.49	0.083 - 0.11	0.04 - 0.39	< 0.03 - 1.49
SELENIUM	MG/L	< 0.0009 - 0.029	< 0.002 - 0.019	0.004 - 0.29	< 0.0009 - 0.29
SILVER	MG/L	< 0.005 - 0.014		0.001 - 0.022	< 0.005 - 0.022
ZINC	MG/L	< 0.02 - 0.85	0.06 - 0.11	0.01 - 0.07	< 0.02 - 0.85
ANTIMONY	MG/L	< 0.001 - 0.008			< 0.001 - 0.008
BERYLLIUM	MG/L	< 0.0005 - 0.02			< 0.0005 - 0.02
THALLIUM	MG/L	< 0.002 - <0.10			< 0.002 - <0.10

NOTE: 1984 conglomerate sample was not included because of high suspended solids.

metals analysis results uses only filtered metals concentrations for any indication of landfill impact on groundwater quality. The RWQCB supports this position, as do independent groundwater experts such as David K. Todd who stated (see Appendix B) "results of unfiltered samples are not always indicative of the quality of groundwater, due to the lack of the filtration of solids; MCLs are not generally applied to results of unfiltered samples. Metals are naturally occurring elements in the environment and in groundwater. Metals may be found at concentrations above MCLs in natural groundwater. In order to support any conclusions regarding the migration of metals in landfill leachate, the concentration of metals in the leachate, the concentration of metals in background groundwater, and the pH of groundwater must be considered."

Of the 16 heavy metals monitored, eight (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) have effective state or federal MCLs in 1993. Four metals (antimony, beryllium, nickel, and thallium) have federal MCLs which became effective in January 1994, but no established state MCLs. Hexavalent chromium, cobalt, and zinc do not have any established drinking water standard. Both copper and lead have federal "at the tap" MCLs. However, the "at the tap" level is primarily a limit for water purveyors to comply with for the purpose of controlling pipe corrosion and is not applicable for the evaluation of natural groundwater quality. Therefore these "at the tap" MCLs for copper and lead are not considered in water quality evaluation. Detection limits used by the Sanitation Districts' laboratories for all metals are lower than or equal to California MCLs as required in the WDR. By the fourth quarter of 1993, detection limits used by the Sanitation Districts' laboratories were also lower than or equal to all federal MCLs including those that became effective in January 1994.

In 1993, the water quality analysis results for field filtered metals indicated that metals concentrations downgradient of the site are either below MCLs or equivalent to background conditions. Therefore the Puente Hills Landfill has not had any effect on downgradient metals concentrations.

6.5 Site Water Quality - Volatile Organic Compounds

Volatile organic compounds (VOCs) were analyzed with detection limits lower than or equal to the state MCLs as required in the WDR. In 1993, VOCs were not consistently detected in monitoring wells downgradient of the Puente Hills Landfill except for one well (RMW6) downgradient of Barrier 1 and the two alluvial wells downgradient of Barrier 3. No VOCs were detected in runoff samples. Several VOCs including methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, 1,2-dichloroethane, benzene, toluene, ethylbenzene, acetone, and 2-butonone were detected in quality assurance/quality control samples during 1993.

The detections of VOCs downgradient of Barrier 1 were sporadic and at very low levels in 1993 except at well RMW6. The detected VOC levels at RMW6 were low

(typically less than 5 parts per billion) and were consistent with levels expected from landfill gas contact with groundwater. The Sanitation Districts expanded landfill gas control near this well in 1992 and installed additional gas control wells on the second bench in 1993 to further minimize potential landfill gas contact with canyon water. In addition, the operation of the canyon water extraction system near well RMW6 was enhanced by increasing the extraction rates. The changes in monitoring well water quality was carefully assessed through frequent monitoring of RMW6 (typically twice a month). The Sanitation Districts concluded based on monitoring data collected in 1993 that the expanded landfill gas control and the enhanced canyon water extraction have resulted in decreased VOC concentrations. However, a consistent reduction in VOC concentration levels to below MCLs has not been accomplished by the end of 1993. The Sanitation Districts plan to further investigate possible enhancements to the operation of landfill gas control and canyon water extraction systems. Ongoing evaluation of the effectiveness of this expanded mitigation program will be provided by the Sanitation Districts through water quality sampling as well as direct involvement and review by the RWQCB. It should be noted that at offsite monitoring well M16A, which is located downgradient of the Puente Hills Landfill, but hydraulically upgradient of Whittier Narrows, there was no detections of those VOCs detected at RMW6, for example, vinyl chloride, TCE, 1,2-dichloroethane, and p-dichlorobenzene except for PCE. The detection of PCE at M16A is believed to be associated with the Basin contamination.

Very low levels of VOCs were also detected at well M31A and M33A downgradient of Barrier 3. The levels of VOCs previously detected at monitoring well M02A, such as chlorobenzene, p-dichlorobenzene, 1,2-dichloroethane, and TCE, have shown a steady decreasing trend since the operation of the Barrier 3 extraction system. By the end of 1993, only 1,2-dichloroethane was detected at levels slightly above MCLs. Further downgradient of these wells at monitoring wells MW1 and M16A, however, there was no detection of 1,2-dichloroethane. This indicates that the low levels of VOCs detected onsite do not affect the groundwater in Whittier Narrows or San Gabriel Groundwater Basin.

In summary, there were low levels of VOCs detected onsite downgradient of Barriers 1 and 3 in 1993. The Sanitation Districts will continue to implement and enhance landfill gas control and canyon water extraction, with RWQCB's oversight, to ensure that the site remains to have no adverse effects on the beneficial uses of groundwater in any receiving groundwater bodies.

6.6 Site Water Quality - Base Neutral/Acid Extractable Compounds

In 1993, there were no water quality concerns related to the base neutral/acid extractable (BNA) compounds. Phthalates were the only BNA compounds frequently detected in water quality samples. Phthalates are widely used plasticizers and are commonly found in laboratory control blanks and are therefore not considered meaningful

water quality indicator parameters; other water quality indicator parameters also need to be examined draw conclusion about water quality. The monitoring results in 1993 do not indicate the BNA compounds are a water quality concern.

6.7 Site Water Quality - Pesticides

In 1993, pesticides were not detected at any monitoring wells at the site except for well MW4 which once detected DDD and DDT at very low levels (at laboratory detection limits). These detected compounds have no MCLs and were not subsequently detected. Therefore the Puente Hills Landfill has not has any effect on downgradient groundwater related to pesticides.

7.0 SLUDGE MONITORING

The dewatered sewage sludge disposed of at the landfill originates at the Sanitation Districts' Joint Water Pollution Control Plant. Summaries of the monthly average sludge percent solids content and tons disposed are presented in Table 5. Two different types of analyses are performed on a regular basis: a bimonthly modified citrate extract procedure for metals analyses, and a semiannual sludge cake analysis for detection of pesticides and VOCs. Monitoring performed during 1993 did not indicate any exceedances of Title 22 criteria for the identification of hazardous wastes for those analyses required in the March 4, 1991 MRP No. 2294. Results of sludge analyses have been separately reported to the RWQCB in quarterly monitoring reports and are not included in this report.

8.0 TREATED INCINERATOR ASH MONITORING

Treated incinerator ash from Commerce Refuse to Energy Facility (Commerce) and the Southeast Resources Recovery Facility (SERRF) located in Long Beach was disposed at the Puente Hills Landfill during 1993. All incinerator ash accepted at the Puente Hills Landfill during 1993 was treated by a solidification/stabilization process. This process forms a concrete-like material designed to conform with applicable water quality objectives.

In accordance with WDR Order No. 91-035, the treated ash from Commerce and SERRF was analyzed by the Waste Extraction Test (WET), by citrate buffer and deionized water extraction. In addition, WET citrate for dioxin was performed pursuant to the Order. These results and disposal summaries have been separately submitted to RWQCB on a monthly basis and are not included in this monitoring report.

TABLE 5

SEWAGE SLUDGE DISPOSAL SUMMARY
FOR CALENDAR YEAR 1993

MONTH	TOTAL (tons)	SLUDGE - SOLIDS CONTENT (%)
JANUARY	30,958	25.9
FEBRUARY	28,228	26.2
MARCH	22,418	25.9
APRIL	18,329	25.7
MAY	17,547	24.9
JUNE	18,495	25.2
JULY	18,841	25.2
AUGUST	22,214	25.6
SEPTEMBER	18,012	25.3
OCTOBER	20,490	24.6
NOVEMBER	18,867	25.4
DECEMBER	17,040	25.9

APPENDIX A

WATER QUALITY MONITORING DATA - PUENTE HILLS LANDFILL, 1993

APPENDIX A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI LE-SJ53411 03/04/93	WEFI LE-SJ59147 06/25/93	WEFI LE-SJ62455 09/03/93	WEFI LE-SJ67409 12/17/93
ANIONS					
SULFATE	MG/L SO4	598	750	195	950
CHLORIDE	MG/L CL	356	349	604	558
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	682	762	589	919
MAGNESIUM-HARDNESS	MG/L CACO3	527	679	691	938
SODIUM	MG/L NA	209	271	411	341
POTASSIUM	MG/L K	11.2	17.3	77.8	28.8
IRON	MG/L FE	0.68	0.04	6.79	6.70
MANGANESE	MG/L MN	4.66	5.11	2.12	2.14
METALS					
ARSENIC	MG/L AS	0.004	0.002	0.006	0.008
BARIUM	MG/L BA	0.10	0.08	0.63	0.09
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	0.04	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001 A	<.0001
NICKEL	MG/L NI	0.03	0.03	0.03	0.04
SELENIUM	MG/L SE	<0.001	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.04	0.06	0.03	< 0.02
ANTIMONY	MG/L SB	0.001	0.002	0.001	<0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ50766 01/15/93	WELL LE-SJ51924 02/05/93	WELL LE-SJ53414 03/04/93	WELL LE-SJ57043 05/13/93	WELL LE-SJ59149 06/25/93	WELL LE-SJ60077 07/16/93	WELL LE-SJ62130 08/26/93	WELL LE-SJ62460 09/03/93	WELL LE-SJ64137 10/08/93	WELL LE-SJ66404 11/24/93
FIELD PARAMETERS											
FIELD WATER TEMPERATURE	DEG C	1.5	17	19	19	22	20	29	18	20.3	20.7
FIELD PH	PH	7.16	6.99	7.11	6.60	6.79	6.88	6.90	6.77	6.97	7.15
FIELD CONDUCTIVITY	UMHOS/CM	4000	3100	3400	3300	3360	2390	3510	3310	3030	3060
FIELD DISSOLVED O2	MG/L	4.20	3.5	4.00	4.0	3.3	3.9	3.1	2.6	5.0	6.0
FIELD DISSOLVED CO2	MG/L	73.9	82.7	77.4	183.0	193.6	66.9	158.8	133.8	89.8	88.0
FIELD TOTAL ALKALINITY	MG/L	922	794	756	870	890	702	978	930	730	792
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
GENERAL											
PH	PH	7.32	7.10	7.76	7.48	7.54 B	7.45	7.46	7.72	7.68 B	7.06
CONDUCTIVITY	UMHOS/CM			3210 B		3390			4160		
SUSPENDED SOLIDS	MG/L			8		62			2125		
TOTAL DISSOLVED SOLIDS	MG/L	2671	2390	2167	2766	2516	1798	2431	2510	2362	2598
TOTAL HARDNESS	MG/L CACO3			1400 C		1460 C			1760 C		
TOTAL CYANIDE	MG/L CN			< 0.01		< 0.01			0.05		
PHENOLS	MG/L C6H5OH			0.005		0.001			0.004		
BORON	MG/L B			1.42 A		1.64			1.48		
ANIONS											
NITRATE NITROGEN	MG/L N			0.37		0.26			0.09		
SULFATE	MG/L SO4	685 A	685 A	614	760	750	318	382	500	770	775
CHLORIDE	MG/L CL	428	332	354	417	352	314	379	448	368	335
TOTAL ALKALINITY	MG/L CACO3			785		802			947		
BICARBONATE ALKALINITY	MG/L CACO3			785		802			947		
TOTAL PHOSPHATE	MG/L PO4			0.39		0.98			9.60		
TOTAL SULFIDE	MG/L S			< 0.1		< 0.1			0.2		
FLUORIDE	MG/L F			0.83		0.79			0.85		
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3			789		774			856		
MAGNESIUM-HARDNESS	MG/L CACO3			613		691			906		
SODIUM	MG/L NA			242		276			270		
POTASSIUM	MG/L K			13.3		17.5			59.8		
IRON	MG/L FE			10.9		20.2			263		
MANGANESE	MG/L MN			4.79		5.4			5.32		
SOLUBLE IRON	MG/L FE			< 0.1		1.15					
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N			3.2		6.3			51.0		

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUPLICATE SPIKE E-INTERFERENCE
F-VALUE <MDL, >IDL G-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ50766 01/15/93	WELL LE-SJ51924 02/05/93	WELL LE-SJ53414 03/04/93	WELL LE-SJ57043 05/13/93	WELL LE-SJ59149 06/25/93	WELL LE-SJ60077 07/16/93	WELL LE-SJ62130 08/26/93	WELL LE-SJ62460 09/03/93	WELL LE-SJ64137 10/08/93	WELL LE-SJ66404 11/24/93
ORGANIC MATTER											
TOTAL BOD	MG/L O	9	7	6	10	5	5	17	27	6	11
SOLUBLE BOD	MG/L O			5		3			12 B		
TOTAL COD	MG/L O	302	145	83	111	81	88	205 A	362	76	69
SOLUBLE COD	MG/L O			76 A		77 A			220		
TOTAL ORGANIC CARBON	MG/L C			27 D		22			92		
OIL & GREASE	MG/L EXTRAC			1.2		< 1			5.6		
TOTAL ORGANIC HALOGEN(TOX	UG/L			180		240			290		
ACETIC ACID	MG/L			< 2.0		< 2.0			< 2.0		
PROPIONIC ACID	MG/L			< 2.0		< 2.0			< 2.0		
ISOBUTYRIC ACID	MG/L			< 2.0		< 2.0			< 2.0		
BUTYRIC ACID	MG/L			< 2.0		< 2.0			< 2.0		
ISOVALERIC ACID	MG/L			< 2.0		< 2.0			< 2.0		
VALERIC ACID	MG/L			< 2.0		< 2.D			< 2.0		
METALS											
ARSENIC	MG/L AS			0.021		0.038			0.066		
BARIUM	MG/L BA			0.13		0.11			1.29		
CADMIUM	MG/L CD			< 0.01		< 0.01			< 0.01 G		
TOTAL CHROMIUM	MG/L CR			0.03		< 0.02			0.45		
HEXAVALENT CHROMIUM	MG/L CR			< 0.02		< 0.02 D			< 0.02		
COBALT	MG/L CO			< 0.04		< 0.04			0.12		
COPPER	MG/L CU			0.08		0.08			0.32		
LEAD	MG/L PB			< 0.04		< 0.04			0.8		
MERCURY	MG/L HG			<.0001		.0001			<.0001		
NICKEL	MG/L NI			0.04		< 0.03			0.21		
SELENIUM	MG/L SE			<0.001		<0.001			0.002		
SILVER	MG/L AG			<0.005		<0.005			<0.005		
ZINC	MG/L ZN			0.10		0.03			1.16		
ANTIMONY	MG/L SB			<0.001		<0.001			0.012		
BERYLLIUM	MG/L BE			< 0.01		<.0005			.0042		
THALLIUM	MG/L TL			<0.050		<0.002			<0.002		
PESTICIDES											
PP'-DDE	UG/L			< 0.01		< 0.01			0.05		
PP'-DDD	UG/L			< 0.01		< 0.01			0.07		
PP'-DDT	UG/L			< 0.01		< 0.01			< 0.01		
ALPHA-BHC	UG/L			< 0.01		< 0.01			< 0.01		
LINDANE (GAMMA-BHC)	UG/L			< 0.01		< 0.01			< 0.01		
HEPTACHLOR	UG/L			< 0.01		< 0.01			0.02		
HEPTACHLOR EPOXIDE	UG/L			< 0.01		< 0.01			< 0.01		
ALDRIN	UG/L			< 0.01		< 0.01			< 0.01		

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

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PESTICIDES											
DIELDRIN	UG/L			< 0.01		< 0.01			0.01		
ENDRIN	UG/L			< 0.01		< 0.01			< 0.01		
TOXAPHENE	UG/L			< 5		< 5			< 5		
METHOXYCLOR	UG/L			< 2		< 2			< 2		
AROCLOR 1242	UG/L			< 0.1		< 0.1			1.7		
AROCLOR 1254	UG/L			< 0.1		< 0.1			0.4		
BETA-BHC	UG/L			< 0.01		< 0.01			< 0.01		
DELTA-BHC	UG/L			< 0.01		< 0.01			< 0.01		
ENDOSULFAN I	UG/L			< 0.01		< 0.01			< 0.01		
ENDOSULFAN II	UG/L			< 0.01		< 0.01			< 0.01		
ENDOSULFAN SULFATE	UG/L			< 0.01		< 0.01			< 0.01		
ENDRIN ALDEHYDE	UG/L			< 0.01		< 0.01			< 0.01		
AROCLOR 1016	UG/L			< 0.1		< 0.1			< 0.1		
AROCLOR 1221	UG/L			< 0.1		< 0.1			< 0.1		
AROCLOR 1232	UG/L			< 0.1		< 0.1			< 0.1		
AROCLOR 1248	UG/L			< 0.1		< 0.1			< 0.1		
AROCLOR 1260	UG/L			< 0.1		< 0.1			< 0.1		
TECHNICAL CHLORDANE	UG/L			< 0.1		< 0.1			0.4		
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L			< 1.0		< 1.0			2.0		
CHLOROFORM	UG/L			< 0.5		< 0.5			< 0.5		
1,1,1-TRICHLOROETHANE	UG/L			< 0.5		< 0.5			< 0.5		
CARBON TETRACHLORIDE	UG/L			< 0.3		< 0.3			< 0.3		
1,1-DICHLOROETHENE	UG/L			< 0.3		< 0.3 D			< 0.3		
TRICHLOROETHYLENE	UG/L			0.9		2.2 D			2.4		
TETRACHLOROETHYLENE	UG/L			< 0.3		< 0.3			0.3		
BROMODICHLOROMETHANE	UG/L			< 0.5		< 0.5			< 0.5		
DIBROMOCHLOROMETHANE	UG/L			< 0.5		< 0.5			< 0.5		
BROMOFORM	UG/L			< 0.5		< 0.5			< 0.5		
CHLOROBENZENE	UG/L			0.8		0.8 D			1.0		
VINYL CHLORIDE	UG/L			0.9		1.2			1.2		
O-DICHLOROBENZENE	UG/L			0.5		< 0.5			0.7		
M-DICHLOROBENZENE	UG/L			< 0.5		< 0.5			< 0.5		
P-DICHLOROBENZENE	UG/L			2.7		2.3			4.4		
1,1-DICHLOROETHANE	UG/L			1.0		2.3			2.5		
1,1,2-TRICHLOROETHANE	UG/L			< 0.3		< 0.3			< 0.3		
1,2-DICHLOROETHANE	UG/L			1.2		1.3			1.8		
BENZENE	UG/L			0.4		0.4 D			0.7		
TOLUENE	UG/L			< 0.3		< 0.3 D			0.4		
ETHYL BENZENE	UG/L			< 0.3		< 0.3			0.7		
TRANS-1,2-DICHLOROETHYLEN	UG/L			< 0.3		< 0.3			0.4		

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ50766 01/15/93	WELL LE-SJ51924 02/05/93	WELL LE-SJ53414 03/04/93	WELL LE-SJ57043 05/13/93	WELL LE-SJ59149 06/25/93	WELL LE-SJ60077 07/16/93	WELL LE-SJ62130 08/26/93	WELL LE-SJ62460 09/03/93	WELL LE-SJ64137 10/08/93	WELL LE-SJ66404 11/24/93
VOLATILE ORGANIC COMPOUND											
BROMOMETHANE	UG/L			< 2.5		< 2.5			< 2.5		
CHLOROETHANE	UG/L			< 2.5		< 2.5			< 2.5		
2-CHLOROETHYLVINYLETHER	UG/L			< 1.0		< 1.0			< 1.0		
CHLOROMETHANE	UG/L			< 2.5		< 2.5			< 2.5		
1,2-DICHLOROPROPANE	UG/L			< 0.5		< 0.5			< 0.5		
CIS-1,3-DICHLOROPROPENE	UG/L			< 0.5		< 0.5			< 0.5		
TRANS-1,3-DICHLOROPROPENE	UG/L			< 0.5		< 0.5			0.9		
1,1,2,2-TETRACHLOROETHANE	UG/L			< 0.5		< 0.5			< 0.5		
ACROLEIN	UG/L			< 2.5		< 2.5			< 2.5		
ACRYLONITRILE	UG/L			< 10 E		< 1.0			< 1.0		
ACETONE	UG/L			< 5.0		< 5.0			7.3		
CIS-1,2-DICHLOROETHYLENE	UG/L					37			21		
2-BUTANONE	UG/L			2.1		< 1.0			1.2		
ACID-BASE NEUTRAL EXTRACT											
ACENAPHTHENE	UG/L			< 20		< 2			< 20		
ACENAPHTHYLENE	UG/L			< 20		< 2			< 20		
ANTHRACENE	UG/L			< 10		< 1			< 10		
BENZIDINE	UG/L			< 620		< 62			< 620		
BENZO(A)ANTHRACENE	UG/L			< 20		< 2			< 20		
BENZO(A)PYRENE	UG/L			< 70		< 7			< 70		
BENZO(B)FLUORANTHENE	UG/L			< 20		< 2			< 20		
BENZO(G,H,I,)PERYLENE	UG/L			< 60		< 6			< 60		
BENZO(K)FLUORANTHENE	UG/L			< 20		< 2			< 20		
BIS(2-CL-ETHOXY)METHANE	UG/L			< 30		< 3			< 30		
BIS(2-CHLOROETHYL)ETHER	UG/L			< 50		< 5			< 50		
BIS(2-CL-ISOPROPYL)ETHER	UG/L			< 30		< 3			< 30		
DIETHYLHEXYL PHTHALATE	UG/L			10 F		< 10			< 100		
4-BROMOPHENYL PHENYLETHER	UG/L			< 90		< 9			< 90		
BUTYLBENZYL PHTHALATE	UG/L			< 30		< 3			< 30		
2-CHLORONAPHTHALENE	UG/L			< 10		< 1			< 10		
4-CHLOROPHENYLPHENYLETHER	UG/L			< 20		< 2			< 20		
CHRYSENE	UG/L			< 20		< 2			< 20		
DIBENZO(A,H)ANTHRACENE	UG/L			< 60		< 6			< 60		
1,2-DICHLOROBENZENE	UG/L			< 100		< 10			< 100		
1,3-DICHLOROBENZENE	UG/L			< 100		< 10			< 100		
1,4-DICHLOROBENZENE	UG/L			< 20		< 2			< 20		
3,3'-DICHLOROBENZIDINE	UG/L			< 1000		< 100			< 1000		
DIETHYL PHTHALATE	UG/L			< 20		< 2			< 20		
DIMETHYL PHTHALATE	UG/L			< 30		< 3			< 30		
DI-N-BUTYL PHTHALATE	UG/L			< 40		< 4			< 40		
2,4-DINITROTOLUENE	UG/L			< 30		< 3			< 30		

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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ACID-BASE NEUTRAL EXTRACT											
2,6-DINITROTOLUENE	UG/L			< 50		< 5			< 50		
DI-N-OCTYL PHTHALATE	UG/L			< 50		< 5			< 50		
1,2-DIPHENYLHYDRAZINE	UG/L			< 10		< 1			< 10		
FLUORANTHENE	UG/L			< 20		< 2			< 20		
FLUORENE	UG/L			< 20		< 2			< 20		
HEXACHLOROBENZENE	UG/L			< 10		< 1			< 10		
HEXACHLOROBUTADIENE	UG/L			< 100		< 10			< 100		
HEXACHLOROCYCLOPENTADIENE	UG/L			< 1000		< 100			< 1000		
HEXACHLOROETHANE	UG/L			< 120		< 12			< 120		
INDENO(1,2,3-C,D)PYRENE	UG/L			< 60		< 6			< 60		
ISOPHORONE	UG/L			< 30		< 3			< 30		
NAPHTHALENE	UG/L			< 20		< 2			< 20		
NITROBENZENE	UG/L			< 20		< 2			< 20		
N-NITROSODIMETHYLAMINE	UG/L			< 300		< 30			< 300		
N-NITROSODI-N-PROPYLAMINE	UG/L			< 20		< 2			< 20		
PHENANTHRENE	UG/L			< 10		< 1			< 10		
PYRENE	UG/L			< 20		< 2			< 20		
2,3,7,8-TCDD	UG/L			< 30		< 3			< 30		
2-CHLOROPHENOL	UG/L			< 80		< 8			< 80		
1,2,4-TRICHLOROBENZENE	UG/L			< 30		< 3			< 30		
2,4-DICHLOROPHENOL	UG/L			< 30		< 3			< 30		
2,4-DIMETHYLPHENDL	UG/L			< 30		< 3			< 30		
2,4-DINITROPHENOL	UG/L			< 390		< 39			< 390		
2-METHYL-4,6DINITROPHENOL	UG/L			< 170		< 17			< 170		
2-NITROPHENOL	UG/L			< 50		< 5			< 50		
4-NITROPHENOL	UG/L			< 60		< 6			< 60		
4-CHLORO-3-METHYLPHENOL	UG/L			< 20		< 2			< 20		
PENTACHLOROPHENOL	UG/L			< 160		< 16			< 160		
PHENOL	UG/L			< 30		< 3			< 30		
2,4,6-TRICHLORDPHENOL	UG/L			< 20		< 2			< 20		
N-NITROSODIPHENYLAMINE	UG/L			< 20		< 2			< 20		

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WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ67411 12/17/93
FIELD PARAMETERS		
FIELD WATER TEMPERATURE	DEG C	18.5
FIELD PH	PH	6.66
FIELD CONDUCTIVITY	UMHOS/CM	4210
FIELD DISSOLVED O2	MG/L	4.0
FIELD DISSOLVED CO2	MG/L	181.3
FIELD TOTAL ALKALINITY	MG/L	968
FIELD HYDROGEN SULFIDE	PPM	< 0.1
GENERAL		
PH	PH	7.83
CONDUCTIVITY	UMHOS/CM	3960
SUSPENDED SOLIDS	MG/L	35
TOTAL DISSOLVED SOLIDS	MG/L	2845
TOTAL HARDNESS	MG/L CACO3	1580 C
TOTAL CYANIDE	MG/L CN	< 0.01
PHENOLS	MG/L C6H5OH	0.008
BORON	MG/L B	1.54
ANIONS		
NITRATE NITROGEN	MG/L N	0.51
SULFATE	MG/L SO4	875
CHLORIDE	MG/L CL	465
TOTAL ALKALINITY	MG/L CACO3	823
BICARBONATE ALKALINITY	MG/L CACO3	823
TOTAL PHOSPHATE	MG/L PO4	0.90
TOTAL SULFIDE	MG/L S	< 0.1
FLUORIDE	MG/L F	0.65
CATIONS		
CALCIUM-HARDNESS	MG/L CACO3	799
MAGNESIUM-HARDNESS	MG/L CACO3	778
SODIUM	MG/L NA	311
POTASSIUM	MG/L K	32.7
IRON	MG/L FE	10.0
MANGANESE	MG/L MN	2.93
ORGANIC MATTER		
AMMONIA NITROGEN	MG/L N	17.5
TOTAL BOD	MG/L O	17

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F-VALUE <MDL, >IDL G-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ67411 12/17/93
ORGANIC MATTER		
SOLUBLE BOD	MG/L O	2
TOTAL COD	MG/L O	130
SOLUBLE COD	MG/L O	122
TOTAL ORGANIC CARBON	MG/L C	41
OIL & GREASE	MG/L EXTRAC	< 0.91
TOTAL ORGANIC HALOGEN(TOX	UG/L	290
ACETIC ACID	MG/L	< 2.5
PROPIONIC ACID	MG/L	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0
BUTYRIC ACID	MG/L	< 2.0
ISOVALERIC ACID	MG/L	< 2.0
VALERIC ACID	MG/L	< 2.0
METALS		
ARSENIC	MG/L AS	0.009
BARIUM	MG/L BA	0.14
CADMIUM	MG/L CD	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02
HEXAVALENT CHROMIUM	MG/L CR	<.0004
COBALT	MG/L CO	< 0.04
COPPER	MG/L CU	< 0.02
LEAD	MG/L PB	< 0.04
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	0.03
SELENIUM	MG/L SE	<0.001
SILVER	MG/L AG	<0.005
ZINC	MG/L ZN	< 0.02
ANTIMONY	MG/L SB	<0.001
BERYLLIUM	MG/L BE	<.0005
THALLIUM	MG/L TL	<0.002
PESTICIDES		
PP'-DDE	UG/L	< 0.01
PP'-DDD	UG/L	< 0.01
PP'-DDT	UG/L	< 0.01
ALPHA-BHC	UG/L	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01
HEPTACHLOR	UG/L	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01
ALDRIN	UG/L	< 0.01
DIELDRIN	UG/L	< 0.01

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUPLICATE SPIKE E-INTERFERENCE
F-VALUE <MDL, >IDL G-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ67411 12/17/93
PESTICIDES		
ENDRIN	UG/L	< 0.01
TOXAPHENE	UG/L	< 3
METHOXYCLOR	UG/L	< 2
AROCLOR 1242	UG/L	< 0.1
AROCLOR 1254	UG/L	< 0.1
BETA-BHC	UG/L	< 0.01
DELTA-BHC	UG/L	< 0.01
ENDOSULFAN I	UG/L	< 0.01
ENDOSULFAN II	UG/L	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01
AROCLOR 1016	UG/L	< 0.1
AROCLOR 1221	UG/L	< 0.1
AROCLOR 1232	UG/L	< 0.1
AROCLOR 1248	UG/L	< 0.1
AROCLOR 1260	UG/L	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1
VOLATILE ORGANIC COMPOUND		
METHYLENE CHLORIDE	UG/L	< 1.0
CHLOROFORM	UG/L	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3
TRICHLOROETHYLENE	UG/L	0.6
TETRACHLOROETHYLENE	UG/L	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5
BROMOFORM	UG/L	< 0.5
CHLOROBENZENE	UG/L	1.1
VINYL CHLORIDE	UG/L	1.6
O-DICHLOROBENZENE	UG/L	0.9
M-DICHLOROBENZENE	UG/L	< 0.5
P-DICHLOROBENZENE	UG/L	3.1
1,1-DICHLOROETHANE	UG/L	0.6
1,1,2-TRICHLOROETHANE	UG/L	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3
BENZENE	UG/L	0.6
TOLUENE	UG/L	< 0.3
ETHYL BENZENE	UG/L	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3
BROMOMETHANE	UG/L	< 2.5

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUPLICATE SPIKE E-INTERFERENCE
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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ67411 12/17/93	
VOLATILE ORGANIC COMPOUND			
CHLOROETHANE	UG/L	< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	
1,2-DICHLOROPROPANE	UG/L	< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	
ACROLEIN	UG/L	< 2.5	D
ACRYLONITRILE	UG/L	< 1.0	D
ACETONE	UG/L	< 5.0	D
CIS-1,2-DICHLOROETHYLENE	UG/L	15	
2-BUTANONE	UG/L	3.0	D
ACID-BASE NEUTRAL EXTRACT			
ACENAPHTHENE	UG/L	< 2	
ACENAPHTHYLENE	UG/L	< 2	
ANTHRACENE	UG/L	< 1	
BENZIDINE	UG/L	< 62	
BENZO(A)ANTHRACENE	UG/L	< 2	
BENZO(A)PYRENE	UG/L	< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	1	F
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	
CHRYSENE	UG/L	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	
1,4-DICHLOROBENZENE	UG/L	1	F
3,3'-DICHLOROBENZIDINE	UG/L	< 100	
DIETHYL PHTHALATE	UG/L	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	
2,4-DINITROTOLUENE	UG/L	< 3	
2,6-DINITROTOLUENE	UG/L	< 5	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUPLICATE SPIKE E-INTERFERENCE
F-VALUE <MDL, >IDL G-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANOFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ67411 12/17/93
ACID-BASE NEUTRAL EXTRACT		
DI-N-OCTYL PHTHALATE	UG/L	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1
FLUORANTHENE	UG/L	< 2
FLUORENE	UG/L	< 2
HEXACHLOROBENZENE	UG/L	< 1
HEXACHLOROBUTADIENE	UG/L	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100
HEXACHLOROETHANE	UG/L	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6
ISOPHORONE	UG/L	< 3
NAPHTHALENE	UG/L	< 2
NITROBENZENE	UG/L	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2
PHENANTHRENE	UG/L	< 1
PYRENE	UG/L	< 2
2,3,7,8-TCDD	UG/L	< 3
2-CHLOROPHENOL	UG/L	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3
2,4-DICHLOROPHENOL	UG/L	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3
2,4-DINITROPHENOL	UG/L	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17
2-NITROPHENOL	UG/L	< 5
4-NITROPHENOL	UG/L	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2
PENTACHLOROPHENOL	UG/L	< 16
PHENOL	UG/L	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 2

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI MW4 SJ53314 03/03/93	WEFI MW4 SJ58840 06/18/93	WEFI MW4 SJ63190 09/20/93
ANIONS				
SULFATE	MG/L SO4	757	827	1000
CHLORIDE	MG/L CL	104	115	146
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	899	1020	1170
MAGNESIUM-HARDNESS	MG/L CACO3	258	290	315
SODIUM	MG/L NA	103	113	130
POTASSIUM	MG/L K	9.3	9.6	10.1
IRON	MG/L FE	0.05	< 0.02	0.65
MANGANESE	MG/L MN	0.59	0.58	0.72
METALS				
ARSENIC	MG/L AS	0.002	0.001	0.002
BARIUM	MG/L BA	0.04	0.05	0.04
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	0.001	0.001	<0.001
SILVER	MG/L AG	0.005	<0.005	<0.005
ZINC	MG/L ZN	0.02	0.02	< 0.02
ANTIMONY	MG/L SB	0.002	0.009	<0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.002	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ53319 03/03/93		WELL MW4 SJ58844 06/18/93		WELL MW4 SJ63195 09/20/93		WELL MW4 SJ67181 12/13/93	
FIELD PARAMETERS									
DEPTH TO WATER	FT	42.6		42.6		42.5		42.9	
DEPTH TO BOTTOM	FT	44.5		44.5		44.5		44.5	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%02	18		19		20		13	
FIELD WATER TEMPERATURE	DEG C	19		21		22.7		16.4	
FIELD PH	PH	6.70		6.37		6.69		6.68	
FIELD CONDUCTIVITY	UMHOS/CM	2500		2370		2710		2160	
FIELD DISSOLVED 02	MG/L	1.3		2.00		2.00			
FIELD DISSOLVED C02	MG/L	71.9		183.9		76.9		73.9	
FIELD TOTAL ALKALINITY	MG/L	420		262		502		502	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1		< 0.1	
GENERAL									
PH	PH	7.60		7.38	E	7.68			
CONDUCTIVITY	UMHOS/CM	2110		2340		2700			
SUSPENDED SOLIDS	MG/L	13340		231		976			
TOTAL DISSOLVED SOLIDS	MG/L	1640		1922		2268			
TOTAL HARDNESS	MG/L CACO3	2230	A	1430	A	1610	A		
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01		0.01	
PHENOLS	MG/L C6H5OH	0.002		0.003		0.002			
BORON	MG/L B	0.35		0.64		0.54		0.33	
ANIONS									
NITRATE NITROGEN	MG/L N	5.46		2.06		0.98			
SULFATE	MG/L SO4	680		840		980			
CHLORIDE	MG/L CL	98.0		114		149			
TOTAL ALKALINITY	MG/L CACO3	660		455		481			
BICARBONATE ALKALINITY	MG/L CACO3	660		455		481			
TOTAL PHOSPHATE	MG/L PO4	91.0		3.02		7.44			
TOTAL SULFIDE	MG/L S	0.5		< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.89		0.68		0.84		0.83	
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	1320		1060		1210			
MAGNESIUM-HARDNESS	MG/L CACO3	910		367		401			
SODIUM	MG/L NA	95.0		109		133			
POTASSIUM	MG/L K	79.4		20.1		21.8			
IRON	MG/L FE	545		74.5		78.1			
MANGANESE	MG/L MN	6		1.41		1.27			
SOLUBLE IRON	MG/L FE	< 0.1		0.10					

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-INSUFFICIENT SAMPLE D-VALUE <MDL, >IDL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ53319 03/03/93	WELL MW4 SJ58844 06/18/93	WELL MW4 SJ63195 09/20/93	WELL MW4 SJ67181 12/13/93
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.8	< 0.1	< 0.1	0.4
TOTAL BOD	MG/L O	24	3	9	
SOLUBLE BOD	MG/L O	2	1	1	
TOTAL COD	MG/L O	204	33	46	
SOLUBLE COD	MG/L O	8	8	8	
TOTAL ORGANIC CARBON	MG/L C	30	5.9	3.5	5.7
OIL & GREASE	MG/L EXTRAC	< 1 B	< 1	< 1	< 1 B
TOTAL ORGANIC HALOGEN(TOX	UG/L	55	40	< 40	< 40
ACETIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
METALS					
ARSENIC	MG/L AS	0.055	0.014	0.006	
BARIUM	MG/L BA	2.5	0.54	0.47	
CADMIUM	MG/L CD	< 0.04	< 0.01	< 0.01	
TOTAL CHROMIUM	MG/L CR	0.73	0.09	0.13	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	0.22	0.04	< 0.04	
COPPER	MG/L CU	0.48	0.1	0.09	
LEAD	MG/L PB	0.14	0.04	0.04	
MERCURY	MG/L HG	C	.0004	.0006	
NICKEL	MG/L NI	0.32	0.06	< 0.08	
SELENIUM	MG/L SE	0.003	0.001	<0.001	
SILVER	MG/L AG	0.015	<0.005	<0.005	
ZINC	MG/L ZN	1.09	0.20	0.21	
ANTIMONY	MG/L SB	0.006	0.002	0.001	
BERYLLIUM	MG/L BE	< 0.01	.0013	.0022	
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	
PESTICIDES					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-INSUFFICIENT SAMPLE D-VALUE <MDL, >IOL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ53319 03/03/93	WELL MW4 SJ58844 06/18/93	WELL MW4 SJ63195 09/20/93	WELL MW4 SJ67181 12/13/93
PESTICIDES					
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUNO					
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	0.7	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLORDETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	0.7	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	0.3	< 0.3

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-INSUFFICIENT SAMPLE D-VALUE <MDL, >IDL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ53319 03/03/93	WELL MW4 SJ58844 05/18/93	WELL MW4 SJ63195 09/20/93	WELL MW4 SJ67181 12/13/93
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.3	< 0.3	0.8
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 4		< 2	
ACENAPHTHYLENE	UG/L	< 4		< 2	
ANTHRACENE	UG/L	< 2		< 1	
BENZIDINE	UG/L	< 124		< 62	
BENZO(A)ANTHRACENE	UG/L	< 4		< 2	
BENZO(A)PYRENE	UG/L	< 14		< 7	
BENZO(B)FLUORANTHENE	UG/L	< 4		< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 12		< 6	
BENZO(K)FLUORANTHENE	UG/L	< 4		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 6		< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 10		< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 6		< 3	
DIETHYLHEXYL PHTHALATE	UG/L	7 D		7 D	
4-BROMOPHENYL PHENYLETHER	UG/L	< 18		< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 6		< 3	
2-CHLORONAPHTHALENE	UG/L	< 2		< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 4		< 2	
CHRYSENE	UG/L	< 4		< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 12		< 6	
1,2-DICHLOROBENZENE	UG/L	< 20		< 10	
1,3-DICHLOROBENZENE	UG/L	< 20		< 10	
1,4-DICHLOROBENZENE	UG/L	< 4		< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 200		< 100	
DIETHYL PHTHALATE	UG/L	< 4		< 2	
DIMETHYL PHTHALATE	UG/L	< 6		< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 8		< 4	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-INSUFFICIENT SAMPLE D-VALUE <MDL, >IDL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ53319 03/03/93	WELL MW4 SJ58844 06/18/93	WELL MW4 SJ63195 09/20/93	WELL MW4 SJ67181 12/13/93
ACID-BASE NEUTRAL EXTRACT					
2,4-DINITROTOLUENE	UG/L	< 6		< 3	
2,6-DINITROTOLUENE	UG/L	< 10		< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 10		< 5	
1,2-DIPHENYLHYDRAZINE	UG/L	< 2		< 1	
FLUORANTHENE	UG/L	< 4		< 2	
FLUORENE	UG/L	< 4		< 2	
HEXACHLOROBENZENE	UG/L	< 2		< 1	
HEXACHLOROBUTADIENE	UG/L	< 20		< 10	
HEXACHLOROCYCLOPENTADIENE	UG/L	< 200		< 100	
HEXACHLOROETHANE	UG/L	< 24		< 12	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 12		< 6	
ISOPHORONE	UG/L	< 6		< 3	
NAPHTHALENE	UG/L	< 4		< 2	
NITROBENZENE	UG/L	< 4		< 2	
N-NITROSODIMETHYLAMINE	UG/L	< 60		< 30	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 4		< 2	
PHENANTHRENE	UG/L	< 2		< 1	
PYRENE	UG/L	< 4		< 2	
2,3,7,8-TCDD	UG/L	< 6		< 3	
2-CHLOROPHENOL	UG/L	< 16		< 8	
1,2,4-TRICHLOROBENZENE	UG/L	< 6		< 3	
2,4-DICHLOROPHENOL	UG/L	< 6		< 3	
2,4-DIMETHYLPHENOL	UG/L	< 6		< 3	
2,4-DINITROPHENOL	UG/L	< 78		< 39	
2-METHYL-4,6DINITROPHENOL	UG/L	< 34		< 17	
2-NITROPHENOL	UG/L	< 10		< 5	
4-NITROPHENOL	UG/L	< 12		< 6	
4-CHLORO-3-METHYLPHENOL	UG/L	< 4		< 2	
PENTACHLOROPHENOL	UG/L	< 32		< 16	
PHENOL	UG/L	< 6		< 3	
2,4,6-TRICHLOROPHENOL	UG/L	< 4		< 2	
N-NITROSODIPHENYLAMINE	UG/L	< 4		< 2	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-INSUFFICIENT SAMPLE D-VALUE <MDL, >IDL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI MW5 SJ53315 03/03/93	WEFI MW5 SJ58841 06/18/93	WEFI MW5 SJ63191 09/20/93	WEFI MW5 SJ67178 12/13/93
ANIONS					
SULFATE	MG/L SO4	265	200	179	182
CHLORIDE	MG/L CL	104	274	250 A	262
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	250	255	239	204
MAGNESIUM-HARDNESS	MG/L CACO3	144	164	149	133
SODIUM	MG/L NA	366	526	538	527
POTASSIUM	MG/L K	5.0	12.3	13.6	11.1
IRON	MG/L FE	0.16	0.02	0.03	0.12
MANGANESE	MG/L MN	0.90	0.50	0.69	1.00
METALS					
ARSENIC	MG/L AS	0.004	0.003	0.005	0.007
BARIUM	MG/L BA	0.11	0.09	0.09	0.09
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	.0002	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.08	0.02	< 0.02	< 0.02
ANTIMONY	MG/L SB	0.002	0.002	<0.001	<0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	<0.002

FOOTNOTES : A-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ53320 03/03/93	WELL MW5 SJ58845 06/18/93	WELL MW5 SJ63196 09/20/93	WELL MW5 SJ67182 12/13/93
FIELD PARAMETERS					
DEPTH TO WATER	FT	59.3	57.7	58.1	58.8
DEPTH TO BOTTOM	FT	61.6	61.6	61.6	61.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	19	20	12
FIELD WATER TEMPERATURE	DEG C	19.1	21.8	21.0	20.2
FIELD PH	PH	7.16	7.01	7.32	7.19
FIELD CONDUCTIVITY	UMHOS/CM	2200	2730	2590	2630
FIELD DISSOLVED O2	MG/L	1.3	1.35	2.50	
FIELD DISSOLVED CO2	MG/L	45.1	88.6	18.4	58.1
FIELD TOTAL ALKALINITY	MG/L	744	950	102.6	946
FIELD HYDROGEN SULFIDE	PPM	0.1	< 0.1	< 0.1	< 0.1
GENERAL					
PH	PH	8.10	8.00	8.13	8.26
CONDUCTIVITY	UMHOS/CM	2110	2790	2840	2720
SUSPENDED SOLIDS	MG/L	3110	56	119	157
TOTAL DISSOLVED SOLIDS	MG/L	1354	1776	1809	1689
TOTAL HARDNESS	MG/L CACO3	715 B	415 B	417 B	425
TOTAL CYANIDE	MG/L CN	0.02	< 0.01	< 0.01	0.01
PHENOLS	MG/L C6H5OH	0.002	0.005	0.012	0.003
BORON	MG/L B	0.22	0.47	0.40	0.24
ANIONS					
NITRATE NITROGEN	MG/L N	0.17	0.40	0.36	0.14 C
SULFATE	MG/L SO4	253	202	185	188 D
CHLORIDE	MG/L CL	106	274	253	254
TOTAL ALKALINITY	MG/L CACO3	785	947	1010	989
BICARBONATE ALKALINITY	MG/L CACO3	785	947	1010	989
TOTAL PHOSPHATE	MG/L PO4	11.6	1.08	2.14	2.52
TOTAL SULFIDE	MG/L S	0.3 A	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.83	0.77	0.96	0.84
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	355	246	252	235
MAGNESIUM-HARDNESS	MG/L CACO3	360	169	165	190
SODIUM	MG/L NA	363	522	543	537
POTASSIUM	MG/L K	32.9	13.7	15.8	18.8
IRON	MG/L FE	201	11.2	13.5	40.1
MANGANESE	MG/L MN	3.09	0.73	0.95	1.63
SOLUBLE IRON	MG/L FE	< 0.1	0.78		

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ53320 03/03/93	WELL MW5 SJ58845 06/18/93	WELL MW5 SJ63196 09/20/93	WELL MW5 SJ67182 12/13/93
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.3	< 0.1	< 0.1	0.2
TOTAL BOD	MG/L O	10	2	3	3
SOLUBLE BOD	MG/L O	2	1	1	1
TOTAL COD	MG/L O	114	49	50	48
SOLUBLE COD	MG/L O	15	42	35	34
TOTAL ORGANIC CARBON	MG/L C	19	14	13 C	11
OIL & GREASE	MG/L EXTRAC	< 1	< 1	< 1	< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L	75	130	110	98
ACETIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.5
PROPIDNIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
METALS					
ARSENIC	MG/L AS	0.036	0.007	0.009	0.011
BARIUM	MG/L BA	1.32	0.38	0.42	0.54
CADMIUM	MG/L CD	< 0.04	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	0.26	< 0.02	0.02	0.04
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	0.09	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	0.22	0.02	0.05	0.05
LEAD	MG/L PB	0.1	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	.0009	.0001	.0001 C	.0001
NICKEL	MG/L NI	0.08	< 0.03	< 0.03	0.04
SELENIUM	MG/L SE	0.001	<0.001	<0.001	<0.001
SILVER	MG/L AG	0.006	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.62	0.04	0.08	0.10
ANTIMONY	MG/L SB	0.004	0.001	<0.001	0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005	.0007
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	<0.002
PESTICIDES					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ53320 03/03/93	WELL MW5 SJ58845 06/18/93	WELL MW5 SJ63196 09/20/93	WELL MW5 SJ67182 12/13/93
PESTICIDES					
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND					
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	1.6	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	0.6	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	0.6	0.8	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	0.7	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	0.6	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-OUPLICATE SPIKE D-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ53320 03/03/93	WELL MW5 SJ58845 06/18/93	WELL MW5 SJ63196 09/20/93	WELL MW5 SJ67182 12/13/93
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L		0.5	0.4	< 0.3
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 4	< 2	< 2	< 2
ACENAPHTHYLENE	UG/L	< 4	< 2	< 2	< 2
ANTHRACENE	UG/L	< 2	< 1	< 1	< 1
BENZIDINE	UG/L	< 124	< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 4	< 2	< 2	< 2
BENZO(A)PYRENE	UG/L	< 14	< 7	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 4	< 2	< 2	< 2
BENZO(G,H,I,)PERYLENE	UG/L	< 12	< 6	< 6	< 6
BENZO(K)FLUORANTHENE	UG/L	< 4	< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 6	< 3	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 10	< 5	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 6	< 3	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	35	14	23	12
4-BROMOPHENYL PHENYLETHER	UG/L	< 18	< 9	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 6	< 3	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 2	< 1	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 4	< 2	< 2	< 2
CHRYSENE	UG/L	< 4	< 2	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 12	< 6	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 20	< 10	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 20	< 10	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 4	< 2	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 200	< 100	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 4	< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 6	< 3	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 8	< 4	< 4	< 4

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ53320 03/03/93		WELL MW5 SJ58845 06/18/93		WELL MW5 SJ63196 09/20/93		WELL MW5 SJ67182 12/13/93	
ACID-BASE NEUTRAL EXTRACT									
2,4-DINITROTOLUENE	UG/L	<	6	<	3	<	3	<	3
2,6-DINITROTOLUENE	UG/L	<	10	<	5	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	10	<	5	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	2	<	1	<	1	<	1
FLUORANTHENE	UG/L	<	4	<	2	<	2	<	2
FLUORENE	UG/L	<	4	<	2	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	2	<	1	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	20	<	10	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	200	<	100	<	100	<	100
HEXACHLDROETHANE	UG/L	<	24	<	12	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	12	<	6	<	6	<	6
ISOPHDRONE	UG/L	<	6	<	3	<	3	<	3
NAPHTHALENE	UG/L	<	4	<	2	<	2	<	2
NITROBENZENE	UG/L	<	4	<	2	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	60	<	30	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	4	<	2	<	2	<	2
PHENANTHRENE	UG/L	<	2	<	1	<	1	<	1
PYRENE	UG/L	<	4	<	2	<	2	<	2
2,3,7,8-TCDD	UG/L	<	6	<	3	<	3	<	3
2-CHLOROPHENOL	UG/L	<	16	<	8	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	6	<	3	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	6	<	3	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	6	<	3	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	78	<	39	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	34	<	17	<	17	<	17
2-NITROPHENOL	UG/L	<	10	<	5	<	5	<	5
4-NITROPHENOL	UG/L	<	12	<	6	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	4	<	2	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	32	<	16	<	16	<	16
PHENOL	UG/L	<	6	<	3	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	4	<	2	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	4	<	2	<	2	<	2

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI RMW6 SJ53410 03/04/93	WEFI RMW6 SJ58487 06/11/93	WEFI RMW6 SJ63188 09/20/93	WEFI RMW6 SJ67671 12/28/93
ANIONS					
SULFATE	MG/L SO4	677	700	750	735
CHLORIDE	MG/L CL	110	112	120	117
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	557	539	587	499
MAGNESIUM-HARDNESS	MG/L CACO3	440	440	486	482
SODIUM	MG/L NA	158	148	157	151
POTASSIUM	MG/L K	6.1	5.7	6.4	6.2
IRON	MG/L FE	0.09	< 0.02	0.03	0.04
MANGANESE	MG/L MN	4.46	5.56	5.59	5.43
METALS					
ARSENIC	MG/L AS	0.002	<0.001	<0.001	<0.001
BARIUM	MG/L BA	0.04	0.04	0.04	0.04
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001	<0.001	0.002
SILVER	MG/L AG	<0.005	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.02	0.14	0.02	< 0.02
ANTIMONY	MG/L SB	0.002	0.008	<0.001	<0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ51066 01/22/93	WELL RMW6 SJ51927 02/05/93	WELL RMW6 SJ53413 03/04/93	WELL RMW6 SJ54402 03/24/93	WELL RMW6 SJ55289 04/13/93	WELL RMW6 SJ55858 04/23/93	WELL RMW6 SJ56246 04/30/93	WELL RMW6 SJ56743 05/10/93	WELL RMW6 SJ57108 05/14/93	WELL RMW6 SJ57546 05/21/93
FIELD PARAMETERS											
DEPTH TO WATER	FT	54.1	53.6	52.4	51.4		55.4	55.1		54.8	51.5
DEPTH TO BOTTOM	FT	90.8	90.8	90.8	90.8		90.8	90.8		90.8	90.8
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1		< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%02	20	21	20	21		21	20		19	17
FIELD WATER TEMPERATURE	DEG C	19	19	21			19	22		20	20
FIELD PH	PH	7.33	6.89	7.20			7.19	7.45		6.53	6.67
FIELD CONDUCTIVITY	UMHOS/CM	2300	2000	2400			2000	1974		2060	2130
FIELD DISSOLVED O2	MG/L	2.75	2.2	4.80			5.4	6.1		1.8	1.6
FIELD DISSOLVED CO2	MG/L	65.1	45.8	59.8			31.8	28.2		170.7	75.7
FIELD TOTAL ALKALINITY	MG/L	460	456	450			438	460		426	438
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1			< 0.1	< 0.1		< 0.1	< 0.1
GENERAL											
PH	PH			7.89							
CONDUCTIVITY	UMHOS/CM			2200							
SUSPENDED SOLIDS	MG/L			31							
TOTAL DISSOLVED SOLIDS	MG/L			1693							
TOTAL HARDNESS	MG/L CACO3			993 A							
TOTAL CYANIDE	MG/L CN			< 0.01							
PHENOLS	MG/L C6H5OH			0.001							
BORON	MG/L B			0.67							
ANIONS											
NITRATE NITROGEN	MG/L N			0.07							
SULFATE	MG/L SO4			660							
CHLORIDE	MG/L CL			110							
TOTAL ALKALINITY	MG/L CACO3			437							
BICARBONATE ALKALINITY	MG/L CACO3			437							
TOTAL PHOSPHATE	MG/L PO4			0.35							
TOTAL SULFIDE	MG/L S			< 0.1							
FLUORIDE	MG/L F			0.53 B							
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3			557 D							
MAGNESIUM-HARDNESS	MG/L CACO3			436 D							
SODIUM	MG/L NA			157 D							
POTASSIUM	MG/L K			6.8 D							
IRON	MG/L FE			3.22 D							
MANGANESE	MG/L MN			4.48 D							
SOLUBLE IRON	MG/L FE			< 0.1 D							

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-INSUFFICIENT SAMPLE D-DUPLICATE SPIKE E-VALUE <MDL, >IDL
F-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ51066 01/22/93	WELL RMW6 SJ51927 02/05/93	WELL RMW6 SJ53413 03/04/93	WELL RMW6 SJ54402 03/24/93	WELL RMW6 SJ55289 04/13/93	WELL RMW6 SJ55858 04/23/93	WELL RMW6 SJ56246 04/30/93	WELL RMW6 SJ56743 05/10/93	WELL RMW6 SJ57108 05/14/93	WELL RMW6 SJ57546 05/21/93
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N			< 0.1							
TOTAL BOD	MG/L O			2							
SOLUBLE BOD	MG/L O			< 1							
TOTAL COD	MG/L O			10							
SOLUBLE COD	MG/L O			9							
TOTAL ORGANIC CARBON	MG/L C			2.7							
OIL & GREASE	MG/L EXTRAC			< 1							
TOTAL ORGANIC HALOGEN(TOX	UG/L			42							
ACETIC ACID	MG/L			< 2.0							
PROPIONIC ACID	MG/L			< 2.0							
ISOBUTYRIC ACID	MG/L			< 2.0							
BUTYRIC ACID	MG/L			< 2.0							
ISOVALERIC ACID	MG/L			< 2.0							
VALERIC ACID	MG/L			< 2.0							
METALS											
ARSENIC	MG/L AS			0.001							
BARIUM	MG/L BA			0.07 D							
CADMIUM	MG/L CD			< 0.01 D							
TOTAL CHROMIUM	MG/L CR			< 0.02 D							
HEXAVALENT CHROMIUM	MG/L CR			< 0.02 D							
COBALT	MG/L CO			< 0.04 D							
COPPER	MG/L CU			< 0.02 D							
LEAD	MG/L PB			< 0.04 D							
MERCURY	MG/L HG			<.0001							
NICKEL	MG/L NI			< 0.03 D							
SELENIUM	MG/L SE			<0.001							
SILVER	MG/L AG			<0.005 D							
ZINC	MG/L ZN			0.03 D							
ANTIMONY	MG/L SB			<0.001							
BERYLLIUM	MG/L BE			< 0.01 D							
THALLIUM	MG/L TL			<0.050 D							
PESTICIDES											
PP'-DDE	UG/L			< 0.01							
PP'-DDD	UG/L			< 0.01							
PP'-DDT	UG/L			< 0.01							
ALPHA-BHC	UG/L			< 0.01							
LINDANE (GAMMA-BHC)	UG/L			< 0.01							
HEPTACHLOR	UG/L			< 0.01							
HEPTACHLOR EPOXIDE	UG/L			< 0.01							

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-INSUFFICIENT SAMPLE D-DUPLICATE SPIKE E-VALUE <MDL, >IDL
F-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ51066 01/22/93	WELL RMW6 SJ51927 02/05/93	WELL RMW6 SJ53413 03/04/93	WELL RMW6 SJ54402 03/24/93	WELL RMW6 SJ55289 04/13/93	WELL RMW6 SJ55858 04/23/93	WELL RMW6 SJ56246 04/30/93	WELL RMW6 SJ56743 05/10/93	WELL RMW6 SJ57108 05/14/93	WELL RMW6 SJ57546 05/21/93
PESTICIDES											
ALDRIN	UG/L			< 0.01							
DIELDRIN	UG/L			< 0.01							
ENDRIN	UG/L			< 0.01							
TOXAPHENE	UG/L			< 5							
METHOXYCLOR	UG/L			< 2							
AROCLOR 1242	UG/L			< 0.1							
AROCLOR 1254	UG/L			< 0.1							
BETA-BHC	UG/L			< 0.01							
DELTA-BHC	UG/L			< 0.01							
ENDOSULFAN I	UG/L			< 0.01							
ENDOSULFAN II	UG/L			< 0.01							
ENDDSULFAN SULFATE	UG/L			< 0.01							
ENDRIN ALDEHYDE	UG/L			< 0.01							
AROCLOR 1016	UG/L			< 0.1							
AROCLOR 1221	UG/L			< 0.1							
AROCLOR 1232	UG/L			< 0.1							
AROCLOR 1248	UG/L			< 0.1							
AROCLOR 1260	UG/L			< 0.1							
TECHNICAL CHLORDANE	UG/L			< 0.1							
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3 D	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	7.8	8.5	7.4	2.0	2.4 D	1.5	1.2	6.6	5.8	7.3
TETRACHLOROETHYLENE	UG/L	1.8	2.1	2.1	0.6	0.5	0.4	< 0.3	1.7	1.2	1.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 D	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	1.8	2.4	1.9	< 0.5	0.7	< 0.5	< 0.5	2.2	1.8	2.4
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	1.9	2.0	1.9	< 0.5	1.0	0.7	0.8	1.8	1.6	1.8
1,1-DICHLOROETHANE	UG/L	4.8	5.1	5.0	1.6	1.7	1.1	1.1	4.1	3.5	4.0
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	0.8	0.9	0.8	0.4	0.5	0.4	0.6	0.9	0.7	0.9
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3 D	< 0.3	0.6	< 0.5	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3 D	< 0.3	2.6	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-INSUFFICIENT SAMPLE D-DUPLICATE SPIKE E-VALUE <MOL, >IOL
F-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANOFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ51066 01/22/93	WELL RMW6 SJ51927 02/05/93	WELL RMW6 SJ53413 03/04/93	WELL RMW6 SJ54402 03/24/93	WELL RMW6 SJ55289 04/13/93	WELL RMW6 SJ55858 04/23/93	WELL RMW6 SJ56246 04/30/93	WELL RMW6 SJ56743 05/10/93	WELL RMW6 SJ57108 05/14/93	WELL RMW6 SJ57546 05/21/93
VOLATILE ORGANIC COMPDUND											
TRANS-1,2-DICHLOROETHYLEN	UG/L	0.4	0.5	0.5	< 0.3	< 0.3	< 0.3	< 0.3	0.4	< 0.3	0.4
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLORDETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L			C		< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
ACRYLONITRILE	UG/L			C		< 1.0	< 5.0 F	< 5.0 F		< 1.0	< 1.0
ACETONE	UG/L			C							
2-BUTANONE	UG/L			C							
ACID-BASE NEUTRAL EXTRACT											
ACENAPHTHENE	UG/L			< 2							
ACENAPHTHYLENE	UG/L			< 2							
ANTHRACENE	UG/L			< 1							
BENZIDINE	UG/L			< 62							
BENZO(A)ANTHRACENE	UG/L			< 2							
BENZO(A)PYRENE	UG/L			< 7							
BENZO(B)FLUORANTHENE	UG/L			< 2							
BENZO(G,H,I,)PERYLENE	UG/L			< 6							
BENZO(K)FLUORANTHENE	UG/L			< 2							
BIS(2-CL-ETHOXY)METHANE	UG/L			< 3							
BIS(2-CHLOROETHYL)ETHER	UG/L			< 5							
BIS(2-CL-ISOPROPYL)ETHER	UG/L			< 3							
DIETHYLHEXYL PHTHALATE	UG/L			2 E							
4-BROMOPHENYL PHENYLETHER	UG/L			< 9							
BUTYLBENZYL PHTHALATE	UG/L			< 3							
2-CHLORONAPHTHALENE	UG/L			< 1							
4-CHLOROPHENYLPHENYLETHER	UG/L			< 2							
CHRYSENE	UG/L			< 2							
DIBENZO(A,H)ANTHRACENE	UG/L			< 6							
1,2-DICHLOROBENZENE	UG/L			< 10							
1,3-DICHLOROBENZENE	UG/L			< 10							
1,4-DICHLOROBENZENE	UG/L			1 E							
3,3'-DICHLOROBENZIDINE	UG/L			< 100							
DIETHYL PHTHALATE	UG/L			< 2							
DIMETHYL PHTHALATE	UG/L			< 3							
DI-N-BUTYL PHTHALATE	UG/L			< 4							
2,4-DINITROTOLUENE	UG/L			< 3							

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-INSUFFICIENT SAMPLE D-OUPLICATE SPIKE E-VALUE <MDL, >IDL
F-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ51066 01/22/93	WELL RMW6 SJ51927 02/05/93	WELL RMW6 SJ53413 03/04/93	WELL RMW6 SJ54402 03/24/93	WELL RMW6 SJ55289 04/13/93	WELL RMW6 SJ55858 04/23/93	WELL RMW6 SJ56246 04/30/93	WELL RMW6 SJ56743 05/10/93	WELL RMW6 SJ57108 05/14/93	WELL RMW6 SJ57546 05/21/93
ACID-BASE NEUTRAL EXTRACT											
2,6-DINITROTOLUENE	UG/L			< 5							
DI-N-OCTYL PHTHALATE	UG/L			< 5							
1,2-DIPHENYLHYDRAZINE	UG/L			< 1							
FLUORANTHENE	UG/L			< 2							
FLUORENE	UG/L			< 2							
HEXACHLOROBENZENE	UG/L			< 1							
HEXACHLOROBUTADIENE	UG/L			< 10							
HEXACHLOROCYCLOPENTADIENE	UG/L			< 100							
HEXACHLOROETHANE	UG/L			< 12							
INDENO(1,2,3-C,D)PYRENE	UG/L			< 8							
ISOPHORONE	UG/L			< 3							
NAPHTHALENE	UG/L			< 2							
NITROBENZENE	UG/L			< 2							
N-NITROSODIMETHYLAMINE	UG/L			< 30							
N-NITROSODI-N-PROPYLAMINE	UG/L			< 2							
PHENANTHRENE	UG/L			< 1							
PYRENE	UG/L			< 2							
2,3,7,8-TCDD	UG/L			< 3							
2-CHLOROPHENOL	UG/L			< 8							
1,2,4-TRICHLOROBENZENE	UG/L			< 3							
2,4-DICHLOROPHENOL	UG/L			< 3							
2,4-DIMETHYLPHENOL	UG/L			< 3							
2,4-DINITROPHENOL	UG/L			< 39							
2-METHYL-4,6DINITROPHENOL	UG/L			< 17							
2-NITROPHENOL	UG/L			< 5							
4-NITROPHENOL	UG/L			< 6							
4-CHLORO-3-METHYLPHENOL	UG/L			< 2							
PENTACHLOROPHENOL	UG/L			< 16							
PHENOL	UG/L			< 3							
2,4,6-TRICHLOROPHENOL	UG/L			< 2							
N-NITROSODIPHENYLAMINE	UG/L			< 2							

FOOTNOTES : A-CALCULATED VALUE B-OUP & SPIKE C-INSUFFICIENT SAMPLE D-DUPLICATE SPIKE E-VALUE <MDL, >IDL
F-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ58492 06/11/93	WELL RMW6 SJ59151 06/25/93	WELL RMW6 SJ59734 07/09/93	WELL RMW6 SJ60475 07/23/93	WELL RMW6 SJ61156 08/06/93	WELL RMW6 SJ61865 08/20/93	WELL RMW6 SJ62471 09/03/93	WELL RMW6 SJ63193 09/20/93	WELL RMW6 SJ64260 10/12/93	WELL RMW6 SJ64848 10/22/93
FIELD PARAMETERS											
DEPTH TO WATER	FT	55.1		51.5	54.0		56.1		56.1		
DEPTH TO BOTTOM	FT	90.8		90.6	90.8		90.8		90.6		
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1			< 0.1		< 0.1		
PERCENT OXYGEN IN GAS	%O2	20		20			20		20		
FIELD WATER TEMPERATURE	DEG C	20		23	22.2		22		21.5		
FIELD PH	PH	6.80		6.81	6.88		6.74		6.77		
FIELD CONDUCTIVITY	UMHOS/CM	1928		2170	2240		2210		2250		
FIELD DISSOLVED O2	MG/L	1.85		1.4	2.4		1.6		1.00		
FIELD DISSOLVED CO2	MG/L	175.6		153.1	66.9		73.6		66.9		
FIELD TOTAL ALKALINITY	MG/L	500		514	5680		440		492		
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1	< 0.1		< 0.1		< 0.1		
GENERAL											
PH	PH	7.78							7.54		
CONDUCTIVITY	UMHOS/CM	2155	B						2300		
SUSPENDED SOLIDS	MG/L	< 1							4		
TOTAL DISSOLVED SOLIDS	MG/L	1646							3580		
TOTAL HARDNESS	MG/L CACO3	955	D						1070	D	
TOTAL CYANIDE	MG/L CN	< 0.01							< 0.01		
PHENOLS	MG/L C6H5OH	0.001							0.004		
BORON	MG/L B	0.79							0.67		
ANIONS											
NITRATE NITROGEN	MG/L N	0.02							0.01		
SULFATE	MG/L SO4	705	B						780		
CHLORIDE	MG/L CL	118	B						118		
TOTAL ALKALINITY	MG/L CACO3	420	A						456		
BICARBONATE ALKALINITY	MG/L CACO3	420							456		
TOTAL PHOSPHATE	MG/L PO4	0.13							0.18		
TOTAL SULFIDE	MG/L S	< 0.1	B						< 0.1		
FLUORIDE	MG/L F	0.64							0.75		
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3	519							587		
MAGNESIUM-HARDNESS	MG/L CACO3	436							482		
SODIUM	MG/L NA	141							156		
POTASSIUM	MG/L K	5.6							6.1		
IRON	MG/L FE	0.42							0.08		
MANGANESE	MG/L MN	5.17							5.45		
SOLUBLE IRON	MG/L FE	< 0.02									

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-ND = NONE DETECTED O-CALCULATED VALUE E-DUPLICATE SPIKE
F-VALUE <MDL, >IOL G-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ58492 06/11/93	WELL RMW6 SJ59151 06/25/93	WELL RMW6 SJ59734 07/09/93	WELL RMW6 SJ60475 07/23/93	WELL RMW6 SJ61156 08/06/93	WELL RMW6 SJ61865 08/20/93	WELL RMW6 SJ62471 09/03/93	WELL RMW6 SJ63193 09/20/93	WELL RMW6 SJ64260 10/12/93	WELL RMW6 SJ64848 10/22/93
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N	0.1							0.3		
TOTAL BOD	MG/L O	1							1		
SOLUBLE BOD	MG/L O	1 B							< 1		
TOTAL COD	MG/L O	7							12		
SOLUBLE COD	MG/L O	7							10		
TOTAL ORGANIC CARBON	MG/L C	2.7							2.5		
OIL & GREASE	MG/L EXTRAC	< 1							< 1		
TOTAL ORGANIC HALOGEN(TOX	UG/L	58							52		
ACETIC ACID	MG/L	< 2.0							< 2.0		
PROPIONIC ACID	MG/L	< 2.0							< 2.0		
ISOBUTYRIC ACID	MG/L	< 2.0							< 2.0		
BUTYRIC ACID	MG/L	< 2.0							< 2.0		
ISOVALERIC ACID	MG/L	< 2.0							< 2.0		
VALERIC ACID	MG/L	< 2.0							< 2.0		
METALS											
ARSENIC	MG/L AS	<0.001							0.002		
BARIUM	MG/L BA	0.04							0.04		
CADMIUM	MG/L CD	< 0.01							< 0.01		
TOTAL CHROMIUM	MG/L CR	< 0.02							< 0.02		
HEXAVALENT CHROMIUM	MG/L CR	< 0.02 E							< 0.02		
COBALT	MG/L CO	< 0.04							< 0.04		
COPPER	MG/L CU	< 0.02							< 0.02		
LEAD	MG/L PB	< 0.04							< 0.04		
MERCURY	MG/L HG	<.0001							<.0001		
NICKEL	MG/L NI	< 0.03							< 0.03		
SELENIUM	MG/L SE	<0.001 C							<0.001		
SILVER	MG/L AG	<0.005							<0.005		
ZINC	MG/L ZN	< 0.02							< 0.02		
ANTIMONY	MG/L SB	<0.001							<0.001		
BERYLLIUM	MG/L BE	<.0005							<.0005		
THALLIUM	MG/L TL	<0.002							<0.002		
PESTICIDES											
PP'-DDE	UG/L	< 0.01							< 0.01		
PP'-DDD	UG/L	< 0.01							< 0.01		
PP'-DDT	UG/L	< 0.01							< 0.01		
ALPHA-BHC	UG/L	< 0.01							< 0.01		
LINDANE (GAMMA-BHC)	UG/L	< 0.01							< 0.01		
HEPTACHLOR	UG/L	< 0.01							< 0.01		
HEPTACHLOR EPOXIDE	UG/L	< 0.01							< 0.01		

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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PESTICIDES											
ALDRIN	UG/L	< 0.01							< 0.01		
DIELDRIN	UG/L	< 0.01							< 0.01		
ENDRIN	UG/L	< 0.01							< 0.01		
TOXAPHENE	UG/L	< 5							< 5		
METHOXYCLOR	UG/L	< 2							< 2		
AROCLOR 1242	UG/L	< 0.1							< 0.1		
AROCLOR 1254	UG/L	< 0.1							< 0.1		
BETA-BHC	UG/L	< 0.01							< 0.01		
DELTA-BHC	UG/L	< 0.01							< 0.01		
ENDOSULFAN I	UG/L	< 0.01							< 0.01		
ENDOSULFAN II	UG/L	< 0.01							< 0.01		
ENDOSULFAN SULFATE	UG/L	< 0.01							< 0.01		
ENDRIN ALDEHYDE	UG/L	< 0.01							< 0.01		
AROCLOR 1016	UG/L	< 0.1							< 0.1		
AROCLOR 1221	UG/L	< 0.1							< 0.1		
AROCLOR 1232	UG/L	< 0.1							< 0.1		
AROCLOR 1248	UG/L	< 0.1							< 0.1		
AROCLOR 1260	UG/L	< 0.1							< 0.1		
TECHNICAL CHLORDANE	UG/L	< 0.1							< 0.1		
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 2.0	1.8
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 1.0	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.4	< 0.3	< 0.5	< 0.3
TRICHLOROETHYLENE	UG/L	5.9	6.4	6.6	6.6	6.9	6.4	11	7.6	8.9	3.1
TETRACHLOROETHYLENE	UG/L	1.0	1.3	1.2	1.2	1.2	1.0	3.1	2.2	2.3	0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	0.7	< 1.0	< 0.5
VINYL CHLORIDE	UG/L	1.6	1.7	2.9	3.1	3.5	2.8	4.5	< 0.5	2.1	1.2
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
P-DICHLOROBENZENE	UG/L	1.6	2.0	2.0	2.5	2.4	2.1	4.4	4.2	3.3	1.9
1,1-DICHLOROETHANE	UG/L	3.4	4.1	4.2	4.1	4.9	4.4	7.4	5.4	5.5	2.4
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3
1,2-DICHLOROETHANE	UG/L	0.8	0.9	1.0	0.9	1.2	1.0	2.4	1.9	1.4	1.1
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.6	0.8	< 0.5	0.4
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.8	0.8	0.6	4.6
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	1.1

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ58492 06/11/93	WELL RMW6 SJ59151 06/25/93	WELL RMW6 SJ59734 07/09/93	WELL RMW6 SJ60475 07/23/93	WELL RMW6 SJ61156 08/06/93	WELL RMW6 SJ61865 08/20/93	WELL RMW6 SJ62471 09/03/93	WELL RMW6 SJ63193 09/20/93	WELL RMW6 SJ64260 10/12/93	WELL RMW6 SJ64848 10/22/93
VOLATILE ORGANIC COMPOUND											
TRANS-1,2-DICHLOROETHYLEN	UG/L	0.4	0.4	0.4	0.4	0.5	0.5	1.3	0.8	0.6	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 5.0	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 5.0	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 5.0	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	0.6	< 1.0	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
ACROLEIN	UG/L	< 2.5 E	< 2.5 E						< 2.5 E		
ACRYLONITRILE	UG/L	< 1.0 E	< 1.0 E						< 1.0 E		
ACETONE	UG/L	< 5.0 E							< 5.0 E		
CIS-1,2-DICHLOROETHYLENE	UG/L	36							66		
2-BUTANONE	UG/L	< 1.0 E							< 1.0 E		
ACID-BASE NEUTRAL EXTRACT											
ACENAPHTHENE	UG/L	< 2							< 2		
ACENAPHTHYLENE	UG/L	< 2							< 2		
ANTHRACENE	UG/L	< 1							< 1		
BENZIDINE	UG/L	< 62							< 62		
BENZO(A)ANTHRACENE	UG/L	< 2							< 2		
BENZO(A)PYRENE	UG/L	< 7							< 7		
BENZO(B)FLUORANTHENE	UG/L	< 2							< 2		
BENZO(G,H,I,)PERYLENE	UG/L	< 6							< 6		
BENZO(K)FLUORANTHENE	UG/L	< 2							< 2		
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3							< 3		
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5							< 5		
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3							< 3		
DIETHYLHEXYL PHTHALATE	UG/L	< 10							< 10		
4-BROMOPHENYL PHENYLETHER	UG/L	< 9							< 9		
BUTYLBENZYL PHTHALATE	UG/L	< 3							< 3		
2-CHLORONAPHTHALENE	UG/L	< 1							< 1		
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2							< 2		
CHRYSENE	UG/L	< 2							< 2		
DIBENZO(A,H)ANTHRACENE	UG/L	< 6							< 6		
1,2-DICHLOROBENZENE	UG/L	< 10							< 10		
1,3-DICHLOROBENZENE	UG/L	< 10							< 10		
1,4-DICHLOROBENZENE	UG/L	1 F							< 2		
3,3'-DICHLOROBENZIDINE	UG/L	< 100							< 100		
DIETHYL PHTHALATE	UG/L	< 2							< 2		
DIMETHYL PHTHALATE	UG/L	< 3							< 3		
DI-N-BUTYL PHTHALATE	UG/L	< 4							< 4		

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

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ACID-BASE NEUTRAL EXTRACT											
2,4-DINITROTOLUENE	UG/L	< 3							< 3		
2,6-DINITROTOLUENE	UG/L	< 5							< 5		
DI-N-OCTYL PHTHALATE	UG/L	< 5							< 5		
1,2-DIPHENYLHYDRAZINE	UG/L	< 1							< 1		
FLUORANTHENE	UG/L	< 2							< 2		
FLUORENE	UG/L	< 2							< 2		
HEXACHLOROBENZENE	UG/L	< 1							< 1		
HEXACHLOROBUTADIENE	UG/L	< 10							< 10		
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100							< 100		
HEXACHLOROETHANE	UG/L	< 12							< 12		
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6							< 6		
ISOPHORONE	UG/L	< 3							< 3		
NAPHTHALENE	UG/L	< 2							< 2		
NITROBENZENE	UG/L	< 2							< 2		
N-NITROSODIMETHYLAMINE	UG/L	< 30							< 30		
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2							< 2		
PHENANTHRENE	UG/L	< 1							< 1		
PYRENE	UG/L	< 2							< 2		
2,3,7,8-TCDD	UG/L	< 3							< 3		
2-CHLOROPHENOL	UG/L	< 8							< 8		
1,2,4-TRICHLOROBENZENE	UG/L	< 3							< 3		
2,4-DICHLOROPHENOL	UG/L	< 3							< 3		
2,4-DIMETHYLPHENOL	UG/L	< 3							< 3		
2,4-DINITROPHENOL	UG/L	< 39							< 39		
2-METHYL-4,6DINITROPHENOL	UG/L	< 17							< 17		
2-NITROPHENOL	UG/L	< 5							< 5		
4-NITROPHENOL	UG/L	< 6							< 6		
4-CHLORO-3-METHYLPHENOL	UG/L	< 2							< 2		
PENTACHLOROPHENOL	UG/L	< 16							< 16		
PHENOL	UG/L	< 3							< 3		
2,4,6-TRICHLOROPHENOL	UG/L	< 2							< 2		
N-NITRDSODIPHENYLAMINE	UG/L	< 2							< 2		

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ66420 11/24/93	WELL RMW6 SJ67408 12/17/93	WELL RMW6 SJ67675 12/28/93
FIELD PARAMETERS				
DEPTH TO WATER	FT			55.5
DEPTH TO BOTTOM	FT			90.6
PERCENT METHANE IN GAS	%CH4			< 0.1
PERCENT OXYGEN IN GAS	%O2			19
FIELD WATER TEMPERATURE	DEG C			19.7
FIELD PH	PH			6.88
FIELD CONDUCTIVITY	UMHOS/CM			2090
FIELD DISSOLVED O2	MG/L			2.25
FIELD DISSOLVED CO2	MG/L			58.1
FIELD TOTAL ALKALINITY	MG/L			476
FIELD HYDROGEN SULFIDE	PPM			< 0.1
GENERAL				
PH	PH			7.75
CONDUCTIVITY	UMHOS/CM			2240
SUSPENDED SOLIDS	MG/L			1
TOTAL DISSOLVED SOLIDS	MG/L			1677
TOTAL HARDNESS	MG/L CACO3			981 D
TOTAL CYANIDE	MG/L CN			< 0.01
PHENOLS	MG/L C6H5OH			0.008
BORON	MG/L B			0.79
ANIONS				
NITRATE NITROGEN	MG/L N			0.02
SULFATE	MG/L SO4			735
CHLORIDE	MG/L CL			115
TOTAL ALKALINITY	MG/L CACO3			449
BICARBONATE ALKALINITY	MG/L CACO3			449
TOTAL PHOSPHATE	MG/L PO4			0.26
TOTAL SULFIDE	MG/L S			< 0.1
FLUORIDE	MG/L F			0.66
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3			504
MAGNESIUM-HARDNESS	MG/L CACO3			477
SODIUM	MG/L NA			153
POTASSIUM	MG/L K			6.4
IRON	MG/L FE			0.12
MANGANESE	MG/L MN			5.47

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CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ66420 11/24/93	WELL RMW6 SJ67408 12/17/93	WELL RMW6 SJ67675 12/28/93
ORGANIC MATTER				
AMMONIA NITROGEN	MG/L N			0.2
TOTAL BOD	MG/L O			1
SOLUBLE BOD	MG/L O			1
TOTAL COD	MG/L O			8
SOLUBLE COD	MG/L O			7
TOTAL ORGANIC CARBON	MG/L C			3.1 E
OIL & GREASE	MG/L EXTRAC			< 0.91 E
TOTAL ORGANIC HALOGEN(TOX	UG/L			61
ACETIC ACID	MG/L			< 2.5
PROPIONIC ACID	MG/L			< 2.0
ISOBUTYRIC ACID	MG/L			< 2.0
BUTYRIC ACID	MG/L			< 2.0
ISOVALERIC ACID	MG/L			< 2.0
VALERIC ACID	MG/L			< 2.0
METALS				
ARSENIC	MG/L AS			<0.001
BARIUM	MG/L BA			0.04
CADMIUM	MG/L CD			<0.005
TOTAL CHROMIUM	MG/L CR			< 0.02
HEXAVALENT CHROMIUM	MG/L CR			<.0004
COBALT	MG/L CO			< 0.04
COPPER	MG/L CU			< 0.02
LEAD	MG/L PB			< 0.04
MERCURY	MG/L HG			<.0001
NICKEL	MG/L NI			< 0.03
SELENIUM	MG/L SE			<0.001
SILVER	MG/L AG			<0.005
ZINC	MG/L ZN			< 0.02
ANTIMONY	MG/L SB			<0.001
BERYLLIUM	MG/L BE			<.0005
THALLIUM	MG/L TL			<0.002
PESTICIDES				
PP'-DDE	UG/L			< 0.01
PP'-DDD	UG/L			< 0.01
PP'-DDT	UG/L			< 0.01
ALPHA-BHC	UG/L			< 0.01
LINDANE (GAMMA-BHC)	UG/L			< 0.01
HEPTACHLOR	UG/L			< 0.01
HEPTACHLOR EPOXIDE	UG/L			< 0.01

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-ND = NONE DETECTED D-CALCULATED VALUE E-DUPLICATE SPIKE
F-VALUE <MDL, >IDL G-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ66420 11/24/93	WELL RMW8 SJ67408 12/17/93	WELL RMW6 SJ67675 12/28/93
PESTICIDES				
ALDRIN	UG/L			< 0.01
DIELDRIN	UG/L			< 0.01
ENDRIN	UG/L			< 0.01
TOXAPHENE	UG/L			< 3
METHOXYCLOR	UG/L			< 2
AROCLOR 1242	UG/L			< 0.1
AROCLOR 1254	UG/L			< 0.1
BETA-BHC	UG/L			< 0.01
DELTA-BHC	UG/L			< 0.01
ENDOSULFAN I	UG/L			< 0.01
ENDOSULFAN II	UG/L			< 0.01
ENDOSULFAN SULFATE	UG/L			< 0.01
ENDRIN ALDEHYDE	UG/L			< 0.01
AROCLOR 1016	UG/L			< 0.1
AROCLOR 1221	UG/L			< 0.1
AROCLOR 1232	UG/L			< 0.1
AROCLOR 1248	UG/L			< 0.1
AROCLOR 1260	UG/L			< 0.1
TECHNICAL CHLORDANE	UG/L			< 0.1
VOLATILE ORGANIC COMPOUND				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	6.1 G
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	0.4
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	0.7
TRICHLOROETHYLENE	UG/L	6.9	7.3	9.9
TETRACHLOROETHYLENE	UG/L	1.1	1.2	3.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	0.8
VINYL CHLORIDE	UG/L	3.2	3.2	4.1
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	2.3	2.4	4.5
1,1-DICHLOROETHANE	UG/L	4.6	5.1	7.2
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	1.0	1.0	2.3
BENZENE	UG/L	< 0.3	< 0.3	0.6
TOLUENE	UG/L	< 0.3	< 0.3	0.8 G
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-ND = NONE DETECTED D-CALCULATED VALUE E-DUPLICATE SPIKE
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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ66420 11/24/93	WELL RMW6 SJ67408 12/17/93	WELL RMW6 SJ67675 12/28/93
VOLATILE ORGANIC COMPOUND				
TRANS-1,2-DICHLOROETHYLEN	UG/L	0.5	0.5	1.4
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5
1,2-DICHLORDPROPANE	UG/L	< 0.5	< 0.5	1.0
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L			< 2.5
ACRYLONITRILE	UG/L			< 1.0
ACETONE	UG/L			66
CIS-1,2-DICHLOROETHYLENE	UG/L		49 G	40
2-BUTANONE	UG/L			44
ACID-BASE NEUTRAL EXTRACT				
ACENAPHTHENE	UG/L			< 2
ACENAPHTHYLENE	UG/L			< 2
ANTHRACENE	UG/L			< 1
BENZIDINE	UG/L			< 62
BENZO(A)ANTHRACENE	UG/L			< 2
BENZO(A)PYRENE	UG/L			< 7
BENZO(B)FLUORANTHENE	UG/L			< 2
BENZO(G.H.I.)PERYLENE	UG/L			< 6
BENZO(K)FLUORANTHENE	UG/L			< 2
BIS(2-CL-ETHOXY)METHANE	UG/L			< 3
BIS(2-CHLOROETHYL)ETHER	UG/L			< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L			< 3
DIETHYLHEXYL PHTHALATE	UG/L			< 10
4-BROMOPHENYL PHENYLETHER	UG/L			< 9
BUTYLBENZYL PHTHALATE	UG/L			< 3
2-CHLORONAPHTHALENE	UG/L			< 1
4-CHLOROPHENYLPHENYLETHER	UG/L			< 2
CHRYSENE	UG/L			< 2
DIBENZO(A,H)ANTHRACENE	UG/L			< 6
1,2-DICHLOROBENZENE	UG/L			< 10
1,3-DICHLOROBENZENE	UG/L			< 10
1,4-DICHLOROBENZENE	UG/L			< 2
3,3'-DICHLOROBENZIDINE	UG/L			< 100
DIETHYL PHTHALATE	UG/L			< 2
DIMETHYL PHTHALATE	UG/L			< 3
DI-N-BUTYL PHTHALATE	UG/L			< 4

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-ND = NONE DETECTED D-CALCULATED VALUE E-DUPLICATE SPIKE
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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ66420 11/24/93	WELL RMW6 SJ67408 12/17/93	WELL RMW6 SJ67675 12/28/93							
ACID-BASE NEUTRAL EXTRACT											
2,4-DINITROTOLUENE	UG/L			< 3							
2,6-DINITROTOLUENE	UG/L			< 5							
DI-N-OCTYL PHTHALATE	UG/L			< 5							
1,2-DIPHENYLHYDRAZINE	UG/L			< 1							
FLUORANTHENE	UG/L			< 2							
FLUORENE	UG/L			< 2							
HEXACHLOROBENZENE	UG/L			< 1							
HEXACHLOROBUTADIENE	UG/L			< 10							
HEXACHLOROCYCLOPENTADIENE	UG/L			< 100							
HEXACHLOROETHANE	UG/L			< 12							
INDENO(1,2,3-C,D)PYRENE	UG/L			< 6							
ISOPHORONE	UG/L			< 3							
NAPHTHALENE	UG/L			< 2							
NITROBENZENE	UG/L			< 2							
N-NITROSODIMETHYLAMINE	UG/L			< 30							
N-NITROSODI-N-PROPYLAMINE	UG/L			< 2							
PHENANTHRENE	UG/L			< 1							
PYRENE	UG/L			< 2							
2,3,7,8-TCDD	UG/L			< 3							
2-CHLOROPHENOL	UG/L			< 8							
1,2,4-TRICHLOROBENZENE	UG/L			< 3							
2,4-DICHLOROPHENOL	UG/L			< 3							
2,4-DIMETHYLPHENOL	UG/L			< 3							
2,4-DINITROPHENOL	UG/L			< 39							
2-METHYL-4,6DINITROPHENOL	UG/L			< 17							
2-NITROPHENOL	UG/L			< 5							
4-NITROPHENOL	UG/L			< 6							
4-CHLORO-3-METHYLPHENOL	UG/L			< 2							
PENTACHLOROPHENOL	UG/L			< 16							
PHENOL	UG/L			< 3							
2,4,6-TRICHLOROPHENOL	UG/L			< 2							
N-NITROSODIPHENYLAMINE	UG/L			< 2							

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-ND = NONE DETECTED D-CALCULATED VALUE E-DUPLICATE SPIKE
F-VALUE <MDL, >IDL G-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI MW7 SJ53317 03/03/93		WEFI MW7 SJ58842 06/18/93		WEFI MW7 SJ63192 09/20/93		WEFI MW7 SJ67179 12/13/93	
ANIONS									
SULFATE	MG/L SO4	330		258		286		296	
CHLORIDE	MG/L CL	142			A	152		157	
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	447		467	B	489		407	
MAGNESIUM-HARDNESS	MG/L CACO3	238		258	B	252		240	
SODIUM	MG/L NA	230		234	B	226		221	
POTASSIUM	MG/L K	6.4		7.6	B	7.5		6.4	
IRON	MG/L FE	0.55		0.26	B	0.28		0.03	
MANGANESE	MG/L MN	2.75		1.52	B	1.81		1.30	
METALS									
ARSENIC	MG/L AS	0.005		0.003		0.003		0.001	
BARIUM	MG/L BA	0.09		0.10	B	0.10		0.09	
CADMIUM	MG/L CD	< 0.01		< 0.01	B	< 0.01		<0.005	
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.02	B	< 0.02		< 0.02	
COBALT	MG/L CO	< 0.04		< 0.04	B	< 0.04		< 0.04	
COPPER	MG/L CU	< 0.02		< 0.02	B	< 0.02		< 0.02	
LEAD	MG/L PB	< 0.04		< 0.04	B	< 0.04		< 0.04	
MERCURY	MG/L HG	<.0001		<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.03		< 0.03	B	< 0.03		< 0.03	
SELENIUM	MG/L SE	<0.001		<0.001		<0.001		<0.001	
SILVER	MG/L AG	<0.005		<0.005	B	<0.005		<0.005	
ZINC	MG/L ZN	< 0.02		< 0.02	B	< 0.02		< 0.02	
ANTIMONY	MG/L SB	0.001		0.002		<0.001		<0.001	
BERYLLIUM	MG/L BE	< 0.01		<.0005	B	<.0005		<.0005	
THALLIUM	MG/L TL	<0.050		<0.002	B	<0.002		<0.002	

FOOTNOTES : A-INSUFFICIENT SAMPLE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ53322 03/03/93		WELL MW7 SJ58846 06/18/93		WELL MW7 SJ63197 09/20/93		WELL MW7 SJ67183 12/13/93	
FIELD PARAMETERS									
DEPTH TO WATER	FT	54.2		53.7		54.5		55.3	
DEPTH TO BOTTOM	FT	57.4		57.4		57.4		57.4	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	18		19		21		19	
FIELD WATER TEMPERATURE	DEG C	20		22.0		20.7		21.0	
FIELD PH	PH	7.03		6.62		7.02		7.02	
FIELD CONDUCTIVITY	UMHOS/CM	2100		2040		2100		1950	
FIELD DISSOLVED O2	MG/L	1.9		1.50		2.10			
FIELD DISSOLVED CO2	MG/L	65.2		115.4		58.5		65.1	
FIELD TOTAL ALKALINITY	MG/L	646		762		730		608	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1		< 0.1	
GENERAL									
PH	PH	8.06		7.80		7.94	C	7.97	
CONDUCTIVITY	UMHOS/CM	1960		2120	C	2120	C	1950	
SUSPENDED SOLIDS	MG/L	704		72		223	C	155	
TOTAL DISSOLVED SOLIDS	MG/L	1298	A	1380		1372	A	1226	
TOTAL HARDNESS	MG/L CACO3	727	B	740	B	759	B	995	
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01		0.01	
PHENOLS	MG/L C6H5OH	0.004		0.003		0.011		0.003	
BORON	MG/L B	0.79		1.23		1.15		0.84	
ANIONS									
NITRATE NITROGEN	MG/L N	0.26		0.09		0.30		0.21	
SULFATE	MG/L SO4	347		258		272		314	
CHLORIDE	MG/L CL	146		149		152		162	
TOTAL ALKALINITY	MG/L CACO3	547		665		715		595	
BICARBONATE ALKALINITY	MG/L CACO3	547		665		715		595	
TOTAL PHOSPHATE	MG/L PO4	3.06		1.34	A	1.53	A	5.10	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.85		0.50		0.66		0.57	
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	464		479		499	D	592	
MAGNESIUM-HARDNESS	MG/L CACO3	263		261		260	D	403	
SODIUM	MG/L NA	230		235		233	D	223	
POTASSIUM	MG/L K	12.7		8.3		9.4	D	25.8	
IRON	MG/L FE	38.5		4.71		6.62	D	125	
MANGANESE	MG/L MN	2.62		1.55		1.71	D	2.97	
SOLUBLE IRON	MG/L FE	4.02		0.05					

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ53322 03/03/93	WELL MW7 SJ58846 06/18/93	WELL MW7 SJ63197 09/20/93	WELL MW7 SJ67183 12/13/93
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.5	< 0.1	< 0.1	0.8
TOTAL BOD	MG/L O	14	1	5	5
SOLUBLE BOD	MG/L O	2	1 C	1 C	1
TOTAL COD	MG/L O	104	26	34	63
SOLUBLE COD	MG/L O	7	22	24 A	25
TOTAL ORGANIC CARBON	MG/L C	11	7.6	7.5 D	16
OIL & GREASE	MG/L EXTRAC	< 1	< 1	< 1	< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40	76	60	140
ACETIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
METALS					
ARSENIC	MG/L AS	0.013	0.006	0.006	0.018
BARIUM	MG/L BA	0.45	0.16	0.18 D	1.03
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01 D	0.007
TOTAL CHROMIUM	MG/L CR	0.05	< 0.02	< 0.02 D	0.20
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	< 0.02 D	< 0.02 D	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04 D	0.05
COPPER	MG/L CU	0.07	< 0.02	0.02 D	0.16
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04 D	0.05
MERCURY	MG/L HG	.0003	.0001	<.0001	.0002
NICKEL	MG/L NI	0.05	0.03	< 0.03 D	0.12
SELENIUM	MG/L SE	0.001	<0.001	<0.001	0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005 D	<0.005
ZINC	MG/L ZN	0.15	0.02	0.036 D	0.35
ANTIMONY	MG/L SB	0.001	0.001	0.001	0.003
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005 D	.0022
THALLIUM	MG/L TL	<0.050	<0.002	<0.002 D	<0.002
PESTICIDES					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITDRING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ53322 03/03/93	WELL MW7 SJ58846 06/18/93	WELL MW7 SJ63197 09/20/93	WELL MW7 SJ67183 12/13/93
PESTICIDES					
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< D.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND					
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< D.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	D.7	0.6	1.7	0.6
VINYL CHLORIDE	UG/L	0.6	0.5	< 0.5	0.7
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	0.9	0.6	2.6	0.9
1,1-DICHLOROETHANE	UG/L	0.4	0.5	1.1	0.6
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	0.7	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	1.0	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ53322 03/03/93	WELL MW7 SJ58846 06/18/93	WELL MW7 SJ63107 09/20/93	WELL MW7 SJ67183 12/13/93						
VOLATILE ORGANIC COMPOUND											
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0						
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0						
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0						
CIS-1,2-DICHLOROETHYLENE	UG/L		1.3	3.1	2.2						
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0						
ACID-BASE NEUTRAL EXTRACT											
ACENAPHTHENE	UG/L	< 20	< 20	< 20	< 2						
ACENAPHTHYLENE	UG/L	< 20	< 20	< 20	< 2						
ANTHRACENE	UG/L	< 10	< 10	< 10	< 1						
BENZIDINE	UG/L	< 620	< 620	< 620	< 62						
BENZO(A)ANTHRACENE	UG/L	< 20	< 20	< 20	< 2						
BENZO(A)PYRENE	UG/L	< 70	< 70	< 70	< 7						
BENZO(B)FLUORANTHENE	UG/L	< 20	< 20	< 20	< 2						
BENZO(G.H.I.)PERYLENE	UG/L	< 60	< 60	< 60	< 6						
BENZO(K)FLUORANTHENE	UG/L	< 20	< 20	< 20	< 2						
BIS(2-CL-ETHOXY)METHANE	UG/L	< 30	< 30	< 30	< 3						
BIS(2-CHLOROETHYL)ETHER	UG/L	< 50	< 50	< 50	< 5						
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 30	< 30	< 30	< 3						
DIETHYLHEXYL PHTHALATE	UG/L	163	< 100	< 100	7 E						
4-BROMOPHENYL PHENYLETHER	UG/L	< 90	< 90	< 90	< 9						
BUTYLBENZYL PHTHALATE	UG/L	< 30	< 30	< 30	< 3						
2-CHLORONAPHTHALENE	UG/L	< 10	< 10	< 10	< 1						
4-CHLOROPHENYLPHENYLETHER	UG/L	< 20	< 20	< 20	< 2						
CHRYSENE	UG/L	< 20	< 20	< 20	< 2						
DIBENZO(A,H)ANTHRACENE	UG/L	< 60	< 60	< 60	< 6						
1,2-DICHLOROBENZENE	UG/L	< 100	< 100	< 100	< 10						
1,3-DICHLOROBENZENE	UG/L	< 100	< 100	< 100	< 10						
1,4-DICHLOROBENZENE	UG/L	< 20	< 20	< 20	< 2						
3,3'-DICHLOROBENZIDINE	UG/L	< 1000	< 1000	< 1000	< 100						
DIETHYL PHTHALATE	UG/L	< 20	< 20	< 20	< 2						
DIMETHYL PHTHALATE	UG/L	< 30	< 30	< 30	< 3						
DI-N-BUTYL PHTHALATE	UG/L	< 40	< 40	< 40	1 E						

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ53322 03/03/93	WELL MW7 SJ58846 06/18/93	WELL MW7 SJ63197 09/20/93	WELL MW7 SJ67183 12/13/93
ACID-BASE NEUTRAL EXTRACT					
2,4-DINITROTOLUENE	UG/L	< 30	< 30	< 30	< 3
2,6-DINITROTOLUENE	UG/L	< 50	< 50	< 50	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 50	< 50	< 50	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	< 10	< 10	< 1
FLUORANTHENE	UG/L	< 20	< 20	< 20	< 2
FLUORENE	UG/L	< 20	< 20	< 20	< 2
HEXACHLOROBENZENE	UG/L	< 10	< 10	< 10	< 1
HEXACHLOROBUTADIENE	UG/L	< 100	< 100	< 100	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 1000	< 1000	< 1000	< 100
HEXACHLOROETHANE	UG/L	< 120	< 120	< 120	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 60	< 60	< 60	< 6
ISOPHORONE	UG/L	< 30	< 30	< 30	< 3
NAPHTHALENE	UG/L	< 20	< 20	< 20	< 2
NITROBENZENE	UG/L	< 20	< 20	< 20	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 300	< 300	< 300	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 20	< 20	< 20	< 2
PHENANTHRENE	UG/L	< 10	< 10	< 10	< 1
PYRENE	UG/L	< 20	< 20	< 20	< 2
2,3,7,8-TCDD	UG/L	< 30	< 30	< 30	< 3
2-CHLOROPHENOL	UG/L	< 80	< 80	< 80	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 30	< 30	< 30	< 3
2,4-DICHLOROPHENOL	UG/L	< 30	< 30	< 30	< 3
2,4-DIMETHYLPHENOL	UG/L	< 30	< 30	< 30	< 3
2,4-DINITROPHENOL	UG/L	< 390	< 390	< 390	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 170	< 170	< 170	< 17
2-NITROPHENOL	UG/L	< 50	< 50	< 50	< 5
4-NITROPHENOL	UG/L	< 60	< 60	< 60	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 20	< 20	< 20	< 2
PENTACHLOROPHENOL	UG/L	< 160	< 160	< 160	< 16
PHENOL	UG/L	< 30	< 30	< 30	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 20	< 20	< 20	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 20	< 20	< 20	< 2

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

APPENDIX A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M24A SJ51362 01/27/93	WEFI M24A SJ53521 03/08/93	WEFI M24A SJ58732 06/16/93	WEFI M24A SJ63338 09/22/93	WEFI M24A SJ67559 12/22/93
ANIONS						
SULFATE	MG/L SO4	212	290	318	268	237
CHLORIDE	MG/L CL	19	18	18.6	21	22
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3	315	429	414	372	335
MAGNESIUM-HARDNESS	MG/L CACO3	119	147	165	138	132
SODIUM	MG/L NA	27.2	30.2	41.3	48.7	59.5
POTASSIUM	MG/L K	6	6.1	6.7	6.1	6.5
IRON	MG/L FE	1.76	2.40	0.32	0.09	0.13
MANGANESE	MG/L MN	0.39	0.40	0.46	0.34	0.32
METALS						
ARSENIC	MG/L AS	<0.001	0.001	<0.001	<0.001	<0.001
BARIUM	MG/L BA	0.04	0.04	0.04	0.04	0.04
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001 A	<.0001
NICKEL	MG/L NI	< 0.08	< 0.03	< 0.03	< 0.03	0.03
SELENIUM	MG/L SE	0.001	<0.001	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.05	0.05	< 0.02	0.02	0.85
ANTIMONY	MG/L SB	0.006	0.003	0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	< 0.01	< 0.01	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.050	<0.002	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ51367 01/27/93	WELL M29B SJ53526 03/08/93	WELL M29B SJ58886 06/21/93	WELL M29B SJ63397 09/23/93	WELL M29B SJ67564 12/22/93
PESTICIDES						
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND						
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3 D	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3 D	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5 D	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3 D	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3 D	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL
F-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ51367 01/27/93	WELL M29B SJ53526 03/08/93	WELL M29B SJ58886 06/21/93	WELL M29B SJ63397 09/23/93	WELL M29B SJ67564 12/22/93
VOLATILE ORGANIC COMPOUND						
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACT						
ACENAPHTHENE	UG/L	< 2	< 2	< 2	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	< 2	< 2
ANTHRACENE	UG/L	< 1	< 1	< 1	< 1	< 1
BENZIDINE	UG/L	< 62	< 62	< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	< 2	< 2
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2	< 2
BENZO(G.H.I.)PERYLENE	UG/L	< 6	< 6	< 6	< 6	< 6
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	2 E	4 E	6 E	2 F	< 10
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	< 2	< 2
CHRYSENE	UG/L	< 2	< 2	< 2	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	< 4	< 4

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL
F-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ51367 01/27/93	WELL M29B SJ53526 03/08/93	WELL M29B SJ58886 06/21/93	WELL M29B SJ63397 09/23/93	WELL M29B SJ67564 12/22/93
ACID-BASE NEUTRAL EXTRACT						
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3	< 3	< 3
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1	< 1	< 1
FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2	< 2
FLUORENE	UG/L	< 2	< 2	< 2	< 2	< 2
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100	< 100	< 100
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12	< 12	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6	< 6	< 6
ISOPHORONE	UG/L	< 3	< 3	< 3	< 3	< 3
NAPHTHALENE	UG/L	< 2	< 2	< 2	< 2	< 2
NITROBENZENE	UG/L	< 2	< 2	< 2	< 2	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30	< 30	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2	< 2	< 2
PHENANTHRENE	UG/L	< 1	< 1	< 1	< 1	< 1
PYRENE	UG/L	< 2	< 2	< 2	< 2	< 2
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3	< 3	< 3
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8	< 8	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3	< 3	< 3
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3	< 3	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3	< 3	< 3
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39	< 39	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17	< 17	< 17
2-NITROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5
4-NITROPHENOL	UG/L	< 6	< 6	< 6	< 6	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2	< 2	< 2
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16	< 16	< 16
PHENOL	UG/L	< 3	< 3	< 3	< 3	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2	< 2	< 2
N-NITROSODIPHENYLAMINE	UG/L	4	< 2	< 2	< 2	< 2

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL
F-AMENDED TEST RESULT

APPENDIX A.3

WATER QUALITY DATA - COMPACTED CLAY BARRIER MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M02A SJ53451 03/05/93	WEFI M02A SJ58631 06/15/93
ANIONS			
SULFATE	MG/L SO4	2330	2360
CHLORIDE	MG/L CL	714 A	751 A
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	1550	1530
MAGNESIUM-HARDNESS	MG/L CACO3	2010	2070
SODIUM	MG/L NA	436	414
POTASSIUM	MG/L K	9.8	9.6
IRON	MG/L FE	29.7	29.6
MANGANESE	MG/L MN	5.52	6.35
METALS			
ARSENIC	MG/L AS	0.010	0.011
BARIUM	MG/L BA	0.04	< 0.02
CADMIUM	MG/L CD	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001
SILVER	MG/L AG	0.012	<0.005
ZINC	MG/L ZN	0.03	< 0.02
ANTIMONY	MG/L SB	0.001	0.006
BERYLLIUM	MG/L BE	< 0.01	<.0005
THALLIUM	MG/L TL	<0.050	<0.002

FOOTNOTES : A-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M02A SJ53453 03/05/93		WELL M02A SJ58635 06/15/93	
FIELD PARAMETERS					
DEPTH TO WATER	FT	78.6		78.1	
DEPTH TO BOTTOM	FT	94.4		94.4	
PERCENT METHANE IN GAS	%CH4	26		50	
PERCENT OXYGEN IN GAS	%O2	12		6	
FIELD WATER TEMPERATURE	DEG C	19		23.1	
FIELD PH	PH	6.48		6.95	
FIELD CONDUCTIVITY	UMHOS/CM	7000		5890	
FIELD DISSOLVED O2	MG/L	1.8		1.5	
FIELD DISSOLVED CO2	MG/L	265.8		369.5	
FIELD TOTAL ALKALINITY	MG/L	1124		1094	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1	
GENERAL					
PH	PH	7.08		7.41	
CONDUCTIVITY	UMHOS/CM	6450		6520	
SUSPENDED SOLIDS	MG/L	79	A	35	
TOTAL DISSOLVED SOLIDS	MG/L	5728		6045	
TOTAL HARDNESS	MG/L CACO3	3490	B	3590	B
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01	
PHENOLS	MG/L C6H5OH	0.003		0.002	
BORON	MG/L B	1.14		1.45	
ANIONS					
NITRATE NITROGEN	MG/L N	0.14		0.08	
SULFATE	MG/L SO4	2290		2320	
CHLORIDE	MG/L CL	743		746	
TOTAL ALKALINITY	MG/L CACO3	977		986	
BICARBONATE ALKALINITY	MG/L CACO3	977		986	
TOTAL PHOSPHATE	MG/L PO4	0.87		0.90	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1	
FLUORIDE	MG/L F	1.07		0.93	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	1520		1510	
MAGNESIUM-HARDNESS	MG/L CACO3	1970		2080	
SODIUM	MG/L NA	437		407	
POTASSIUM	MG/L K	10.2		9.6	
IRON	MG/L FE	28.1		28.9	
MANGANESE	MG/L MN	5.66		6.3	
SOLUBLE IRON	MG/L FE	< 0.2		12.8	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M02A SJ53453 03/05/93	WELL M02A SJ58635 06/15/93
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1
TOTAL BOD	MG/L O	2	2
SOLUBLE BOD	MG/L O	1	2
TOTAL COD	MG/L O	67	54
SOLUBLE COD	MG/L O	60	53
TOTAL ORGANIC CARBON	MG/L C	16	17
OIL & GREASE	MG/L EXTRAC	1.0 C	< 1 C
TOTAL ORGANIC HALOGEN(TOX	UG/L	78	150
ACETIC ACID	MG/L	< 2.0	< 2.0
PROPIONIC ACID	MG/L	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0
METALS			
ARSENIC	MG/L AS	0.011	0.011
BARIUM	MG/L BA	0.04	0.04
CADMIUM	MG/L CD	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001
SILVER	MG/L AG	0.012	<0.005
ZINC	MG/L ZN	0.03	< 0.02
ANTIMONY	MG/L SB	<0.001	<0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005
THALLIUM	MG/L TL	<0.050	<0.002
PESTICIDES			
PP'-DDE	UG/L	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MO2A SJ53453 03/05/93	WELL MO2A SJ58635 06/15/93
PESTICIDES			
ALDRIN	UG/L	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5
METHOXYCLOR	UG/L	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND			
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	1.6	1.4
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5
CHLOROBENZENE	UG/L	11	10
VINYL CHLORIDE	UG/L	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	1.9	2.0
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	13	11
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.6
BENZENE	UG/L	0.5	0.5
TOLUENE	UG/L	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M02A SJ53453 03/05/93		WELL M02A SJ58635 06/15/93	
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3		< 0.3	
BROMOMETHANE	UG/L	< 2.5		< 2.5	
CHLOROETHANE	UG/L	< 2.5		< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0		< 1.0	
CHLOROMETHANE	UG/L	< 2.5		< 2.5	
1,2-DICHLOROPROPANE	UG/L	< 0.5		0.6	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5		< 0.5	
ACROLEIN	UG/L	< 2.5		< 2.5	
ACRYLONITRILE	UG/L	< 10	D	< 1.0	
ACETONE	UG/L	< 5.0		< 5.0	
CIS-1,2-DICHLOROETHYLENE	UG/L	31		29	
2-BUTANONE	UG/L	2.0		< 1.0	
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 2		< 2	
ACENAPHTHYLENE	UG/L	< 2		< 2	
ANTHRACENE	UG/L	< 1		< 1	
BENZIDINE	UG/L	< 62		< 62	
BENZO(A)ANTHRACENE	UG/L	< 2		< 2	
BENZO(A)PYRENE	UG/L	< 7		< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2		< 2	
BENZO(G.H.I.)PERYLENE	UG/L	< 6		< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3		< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5		< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3		< 3	
DIETHYLHEXYL PHTHALATE	UG/L	48		< 10	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9		< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3		< 3	
2-CHLORONAPHTHALENE	UG/L	< 1		< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2		< 2	
CHRYSENE	UG/L	< 2		< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6		< 6	
1,2-DICHLOROBENZENE	UG/L	< 10		< 10	
1,3-DICHLOROBENZENE	UG/L	< 10		< 10	
1,4-DICHLOROBENZENE	UG/L	7		7	
3,3'-DICHLOROBENZIDINE	UG/L	< 100		< 100	
DIETHYL PHTHALATE	UG/L	< 2		< 2	
DIMETHYL PHTHALATE	UG/L	< 3		< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4		< 4	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M02A SJ53453 03/05/93		WELL M02A SJ58635 06/15/93	
ACID-BASE NEUTRAL EXTRACT					
2,4-DINITROTOLUENE	UG/L	<	3	<	3
2,6-DINITROTOLUENE	UG/L	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2
FLUORENE	UG/L	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1
PYRENE	UG/L	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3
2-CHLOROPHENOL	UG/L	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5
4-NITROPHENOL	UG/L	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16
PHENOL	UG/L	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUPLICATE SPIKE D-INTERFERENCE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M03B SJ53452 03/05/93	WEFI M03B SJ58632 06/15/93
ANIONS			
SULFATE	MG/L SO4	1790	1870
CHLORIDE	MG/L CL	162	157
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	709	712
MAGNESIUM-HARDNESS	MG/L CACO3	1180	1260
SODIUM	MG/L NA	268	264
POTASSIUM	MG/L K	8.4	9
IRON	MG/L FE	0.11	0.13
MANGANESE	MG/L MN	0.28	0.28
METALS			
ARSENIC	MG/L AS	0.002	0.001
BARIUM	MG/L BA	0.02	0.04
CADMIUM	MG/L CD	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001
SILVER	MG/L AG	0.008	<0.005
ZINC	MG/L ZN	< 0.02	< 0.02
ANTIMONY	MG/L SB	0.001	0.002
BERYLLIUM	MG/L BE	< 0.01	<.0005
THALLIUM	MG/L TL	<0.050	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M03B SJ53454 03/05/93	WELL M03B SJ58636 06/15/93
FIELD PARAMETERS			
DEPTH TO WATER	FT	66.8	66.4
DEPTH TO BOTTOM	FT	117.8	117.8
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%02	19	18
FIELD WATER TEMPERATURE	OEG C	20	24.3
FIELD PH	PH	7.27	6.77
FIELD CONDUCTIVITY	UMHOS/CM	4000	3380
FIELD DISSOLVED 02	MG/L	1.6	1.20
FIELD DISSOLVED CO2	MG/L	47.5	178.9
FIELD TOTAL ALKALINITY	MG/L	416	378
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1
GENERAL			
PH	PH	7.59	8.04
CONDUCTIVITY	UMHOS/CM	3680	3660
SUSPENDED SOLIDS	MG/L	395	234
TOTAL DISSOLVED SOLIDS	MG/L	3213	3308
TOTAL HARDNESS	MG/L CACO3	1919 A	1950 A
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	0.002	<0.001
BORON	MG/L B	0.42	0.54
ANIONS			
NITRATE NITROGEN	MG/L N	0.07	0.08
SULFATE	MG/L SO4	1710	1790
CHLORIDE	MG/L CL	164	156
TOTAL ALKALINITY	MG/L CACO3	358	366
BICARBONATE ALKALINITY	MG/L CACO3	358	366
TOTAL PHOSPHATE	MG/L PO4	0.37 B	0.72
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1
FLUORIDE	MG/L F	0.32	0.50
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	719	687
MAGNESIUM-HARDNESS	MG/L CACO3	1200	1260
SODIUM	MG/L NA	270	260
POTASSIUM	MG/L K	12.2	10.7
IRON	MG/L FE	< 0.02	13.8
MANGANESE	MG/L MN	0.42	0.36
SOLUBLE IRON	MG/L FE	< 0.1	0.42

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M03B SJ53454 03/05/93		WELL M03B SJ58636 06/15/93	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	1.3		1.1	
TOTAL BOD	MG/L O	7		7	
SOLUBLE BOD	MG/L O	1	C <	1	
TOTAL COD	MG/L O	25		14	B
SOLUBLE COD	MG/L O	6		8	
TOTAL ORGANIC CARBON	MG/L C	4.5		3.6	
OIL & GREASE	MG/L EXTRAC	< 1		< 1	
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40		< 40	
ACETIC ACID	MG/L	< 2.0		< 2.0	
PROPIONIC ACID	MG/L	< 2.0		< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0		< 2.0	
BUTYRIC ACID	MG/L	< 2.0		< 2.0	
ISOVALERIC ACID	MG/L	< 2.0		< 2.0	
VALERIC ACID	MG/L	< 2.0		< 2.0	
METALS					
ARSENIC	MG/L AS	0.008		0.002	
BARIUM	MG/L BA	0.12		0.09	
CADMIUM	MG/L CD	< 0.01		< 0.01	
TOTAL CHROMIUM	MG/L CR	< 0.02		0.02	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	D <	0.02	
COBALT	MG/L CO	< 0.04		< 0.04	
COPPER	MG/L CU	< 0.02		0.02	
LEAD	MG/L PB	< 0.04		< 0.04	
MERCURY	MG/L HG	.0002		<.0001	
NICKEL	MG/L NI	0.03		< 0.03	
SELENIUM	MG/L SE	<0.001		<0.001	
SILVER	MG/L AG	0.007		<0.005	
ZINC	MG/L ZN	0.07		0.05	
ANTIMONY	MG/L SB	0.001		<0.001	
BERYLLIUM	MG/L BE	< 0.01		<.0005	
THALLIUM	MG/L TL	<0.050		<0.002	
PESTICIDES					
PP'-DDE	UG/L	< 0.01		< 0.01	
PP'-DDD	UG/L	< 0.01		< 0.01	
PP'-DDT	UG/L	< 0.01		< 0.01	
ALPHA-BHC	UG/L	< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01		< 0.01	
HEPTACHLOR	UG/L	< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01		< 0.01	

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M03B SJ53454 03/05/93	WELL M03B SJ58636 06/15/93
PESTICIDES			
ALDRIN	UG/L	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5
METHOXYCLOR	UG/L	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND			
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M03B SJ53454 03/05/93		WELL M03B SJ58636 06/15/93	
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3		< 0.3	
BROMOMETHANE	UG/L	< 2.5		< 2.5	
CHLOROETHANE	UG/L	< 2.5		< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0		< 1.0	
CHLOROMETHANE	UG/L	< 2.5		< 2.5	
1,2-DICHLOROPROPANE	UG/L	< 0.5		< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5		< 0.5	
ACROLEIN	UG/L	< 2.5		< 2.5	
ACRYLONITRILE	UG/L	< 1.0		< 1.0	
ACETONE	UG/L	< 5.0		< 5.0	
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3		< 0.3	
2-BUTANONE	UG/L	< 1.0		< 1.0	
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 2		< 2	
ACENAPHTHYLENE	UG/L	< 2		< 2	
ANTHRACENE	UG/L	< 1		< 1	
BENZIDINE	UG/L	< 62		< 62	
BENZO(A)ANTHRACENE	UG/L	< 2		< 2	
BENZO(A)PYRENE	UG/L	< 7		< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2		< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6		< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3		< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5		< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3		< 3	
DIETHYLHEXYL PHTHALATE	UG/L	2	E	1	E
4-BROMOPHENYL PHENYLETHER	UG/L	< 9		< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3		< 3	
2-CHLORONAPHTHALENE	UG/L	< 1		< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2		< 2	
CHRYSENE	UG/L	< 2		< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6		< 6	
1,2-DICHLOROBENZENE	UG/L	< 10		< 10	
1,3-DICHLOROBENZENE	UG/L	< 10		< 10	
1,4-DICHLOROBENZENE	UG/L	< 2		< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100		< 100	
DIETHYL PHTHALATE	UG/L	< 2		< 2	
DIMETHYL PHTHALATE	UG/L	< 3		< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4		< 4	

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M03B SJ53454 03/05/93		WELL M03B SJ58636 06/15/93	
ACID-BASE NEUTRAL EXTRACT					
2,4-DINITROTOLUENE	UG/L	<	3	<	3
2,6-DINITROTOLUENE	UG/L	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2
FLUORENE	UG/L	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1
PYRENE	UG/L	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3
2-CHLOROPHENOL	UG/L	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5
4-NITROPHENOL	UG/L	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16
PHENOL	UG/L	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L		1 E	<	2

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL

APPENDIX A.4

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

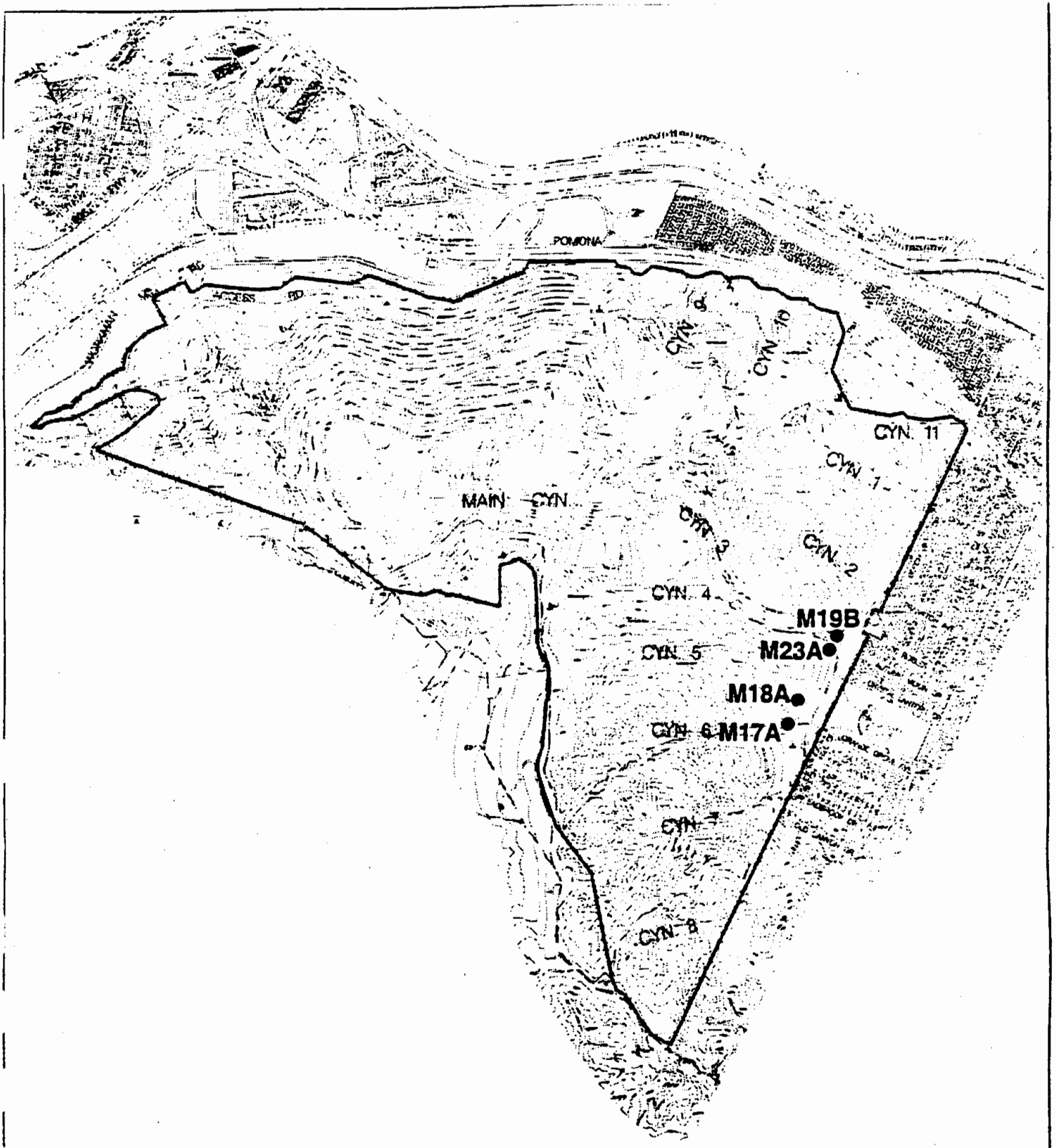

EXHIBIT 10

Background Water Quality Wells

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EW3-SJ63083 09/16/93	WEFI EW3-SJ67711 12/29/93
ANIONS			
SULFATE	MG/L SO4	1390	1070 B
CHLORIDE	MG/L CL	361	249
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	1050	807
MAGNESIUM-HARDNESS	MG/L CACO3	1120	831
SODIUM	MG/L NA	299	227
POTASSIUM	MG/L K	7.2	6.2
IRON	MG/L FE	< 0.02	0.06
MANGANESE	MG/L MN	0.68	0.62
METALS			
ARSENIC	MG/L AS	0.001	0.001
BARIUM	MG/L BA	0.05	0.04
CADMIUM	MG/L CD	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001 A	<.0001 A
NICKEL	MG/L NI	< 0.03	< 0.03
SELENIUM	MG/L SE	0.001	<0.001
SILVER	MG/L AG	<0.005	<0.005
ZINC	MG/L ZN	0.04	< 0.02
ANTIMONY	MG/L SB	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ62131 08/26/93	WELL EW3-SJ63089 09/18/93	WELL EW3-SJ66412 11/24/93	WELL EW3-SJ67715 12/29/93
FIELD PARAMETERS					
FIELD WATER TEMPERATURE	DEG C	27	23	17.3	20
FIELD PH	PH	6.64	6.77	6.36	6.58
FIELD CONDUCTIVITY	UMHOS/CM	4240	4170	3150	3170
FIELD DISSOLVED O2	MG/L	2.1	3.0	4.0	2.4
FIELD DISSOLVED CO2	MG/L	197.3	153.8	167.2	132.0
FIELD TOTAL ALKALINITY	MG/L	866	748	728	748
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	< 0.1
GENERAL					
PH	PH	7.08	7.21	6.94 D	7.33
CONDUCTIVITY	UMHOS/CM		4370		3430
SUSPENDED SOLIDS	MG/L		37		18
TOTAL DISSOLVED SOLIDS	MG/L	3879	3665	2958 D	2665
TOTAL HARDNESS	MG/L CACO3		2250 A		1730 A
TOTAL CYANIDE	MG/L CN				< 0.01
PHENOLS	MG/L C6H5OH		0.005		<0.001
BORON	MG/L B		1.23		1.07
ANIONS					
NITRATE NITROGEN	MG/L N		0.23		0.16
SULFATE	MG/L SO4	1480	1450	1150	1160
CHLORIDE	MG/L CL	463	390	274	272
TOTAL ALKALINITY	MG/L CACO3		793		721
BICARBONATE ALKALINITY	MG/L CACO3		793		721
TOTAL PHOSPHATE	MG/L PO4		0.50		0.42
TOTAL SULFIDE	MG/L S		< 0.1		< 0.1
FLUORIDE	MG/L F		1.24		0.69
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3		1090		841
MAGNESIUM-HARDNESS	MG/L CACO3		1160		889
SODIUM	MG/L NA		304		240
POTASSIUM	MG/L K		8.1		6.7
IRON	MG/L FE		1.16		0.63
MANGANESE	MG/L MN		0.79		0.74
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N		< 0.1		18.4
TOTAL BOD	MG/L O	1	< 1	< 1 D	1

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-CHECK NOTES TO USER D-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ62131 08/26/93		WELL EW3-SJ63089 09/16/93		WELL EW3-SJ66412 11/24/93		WELL EW3-SJ67715 12/29/93	
ORGANIC MATTER									
SOLUBLE BOD	MG/L O			< 1				< 1	
TOTAL COD	MG/L O	25		20		19		20	
SOLUBLE COD	MG/L O			13				18	
TOTAL ORGANIC CARBON	MG/L C			5.3				4.6	
OIL & GREASE	MG/L EXTRAC			< 1	B			< 0.91	B
TOTAL ORGANIC HALOGEN(TOX	UG/L			50				60	
ACETIC ACID	MG/L			< 2.0				< 2.5	
PROPIONIC ACID	MG/L			< 2.0				< 2.0	
ISOBUTYRIC ACID	MG/L			< 2.0				< 2.0	
BUTYRIC ACID	MG/L			< 2.0				< 2.0	
ISOVALERIC ACID	MG/L			< 2.0				< 2.0	
VALERIC ACID	MG/L			< 2.0				< 2.0	
METALS									
ARSENIC	MG/L AS			0.001				0.001	
BARIUM	MG/L BA			0.06				0.04	
CADMIUM	MG/L CD			< 0.01				<0.005	
TOTAL CHROMIUM	MG/L CR			< 0.02				< 0.02	
HEXAVALENT CHROMIUM	MG/L CR			< 0.02				<.0004	
COBALT	MG/L CO			< 0.04				< 0.04	
COPPER	MG/L CU			< 0.02				< 0.02	
LEAD	MG/L PB			< 0.04				< 0.04	
MERCURY	MG/L HG			<.0001				.0002	
NICKEL	MG/L NI			< 0.03				< 0.03	
SELENIUM	MG/L SE			0.001				<0.001	
SILVER	MG/L AG			<0.005				<0.005	
ZINC	MG/L ZN			< 0.02				< 0.02	
ANTIMONY	MG/L SB			<0.001				<0.001	
BERYLLIUM	MG/L BE			<.0005				<.0005	
THALLIUM	MG/L TL			<0.002				<0.002	
PESTICIDES									
PP'-DDE	UG/L			< 0.01				< 0.01	
PP'-DDD	UG/L			< 0.01				< 0.01	
PP'-DDT	UG/L			< 0.01				< 0.01	
ALPHA-BHC	UG/L			< 0.01				< 0.01	
LINDANE (GAMMA-BHC)	UG/L			< 0.01				< 0.01	
HEPTACHLOR	UG/L			< 0.01				< 0.01	
HEPTACHLOR EPOXIDE	UG/L			< 0.01				< 0.01	
ALDRIN	UG/L			< 0.01				< 0.01	
DIELDRIN	UG/L			< 0.01				< 0.01	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-CHECK NOTES TO USER D-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ62131 08/26/93	WELL EW3-SJ63089 09/16/93	WELL EW3-SJ66412 11/24/93	WELL EW3-SJ67715 12/29/93
PESTICIDES					
ENDRIN	UG/L		< 0.01		< 0.01
TOXAPHENE	UG/L		< 5		< 3
METHOXYCLOR	UG/L		< 2		< 2
AROCLOR 1242	UG/L		< 0.1		< 0.1
AROCLOR 1254	UG/L		< 0.1		< 0.1
BETA-BHC	UG/L		< 0.01		< 0.01
DELTA-BHC	UG/L		< 0.01		< 0.01
ENDOSULFAN I	UG/L		< 0.01		< 0.01
ENDOSULFAN II	UG/L		< 0.01		< 0.01
ENDOSULFAN SULFATE	UG/L		< 0.01		< 0.01
ENDRIN ALDEHYDE	UG/L		< 0.01		< 0.01
AROCLOR 1016	UG/L		< 0.1		< 0.1
AROCLOR 1221	UG/L		< 0.1		< 0.1
AROCLOR 1232	UG/L		< 0.1		< 0.1
AROCLOR 1248	UG/L		< 0.1		< 0.1
AROCLOR 1260	UG/L		< 0.1		< 0.1
TECHNICAL CHLORDANE	UG/L		< 0.1		< 0.1
VOLATILE ORGANIC COMPOUND					
METHYLENE CHLORIDE	UG/L		1.8 C		11 C
CHLOROFORM	UG/L		< 0.5		< 0.5
1,1,1-TRICHLOROETHANE	UG/L		< 0.5		< 0.5
CARBON TETRACHLORIDE	UG/L		< 0.3		< 0.3
1,1-DICHLOROETHENE	UG/L		< 0.3		< 0.3
TRICHLOROETHYLENE	UG/L		0.8		1.9
TETRACHLOROETHYLENE	UG/L		< 0.3		0.6
BROMODICHLOROMETHANE	UG/L		< 0.5		< 0.5
DIBROMOCHLOROMETHANE	UG/L		< 0.5		< 0.5
BROMOFORM	UG/L		< 0.5		< 0.5
CHLOROBENZENE	UG/L		2.6		2.0
VINYL CHLORIDE	UG/L		< 0.5		< 0.5
O-DICHLOROBENZENE	UG/L		< 0.5		< 0.5
M-DICHLOROBENZENE	UG/L		< 0.5		< 0.5
P-DICHLOROBENZENE	UG/L		2.1		2.4
1,1-DICHLOROETHANE	UG/L		< 0.3		0.3
1,1,2-TRICHLOROETHANE	UG/L		< 0.3		< 0.3
1,2-DICHLOROETHANE	UG/L		0.4		1.0
BENZENE	UG/L		< 0.3		< 0.3
TOLUENE	UG/L		< 0.3		0.5
ETHYL BENZENE	UG/L		< 0.3		< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 0.3		< 0.3
BROMOMETHANE	UG/L		< 2.5		< 2.5

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-CHECK NOTES TO USER D-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ62131 08/26/93	WELL EW3-SJ63089 09/16/93	WELL EW3-SJ66412 11/24/93	WELL EW3-SJ67715 12/29/93
VOLATILE ORGANIC COMPOUND					
CHLOROETHANE	UG/L		< 2.5		< 2.5
2-CHLOROETHYLVINYLETHER	UG/L		< 1.0		< 1.0
CHLOROMETHANE	UG/L		< 2.5		< 2.5
1,2-DICHLOROPROPANE	UG/L		< 0.5		< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L		< 0.5		< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L		< 0.5		< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5		< 0.5
ACROLEIN	UG/L		< 2.5		< 2.5
ACRYLONITRILE	UG/L		< 1.0		< 1.0
ACETONE	UG/L		< 5.0		< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L		7.5		7.9
2-BUTANONE	UG/L		< 1.0		< 1.0
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L		< 2		< 2
ACENAPHTHYLENE	UG/L		< 2		< 2
ANTHRACENE	UG/L		< 1		< 1
BENZIDINE	UG/L		< 62		< 62
BENZO(A)ANTHRACENE	UG/L		< 2		< 2
BENZO(A)PYRENE	UG/L		< 7		< 7
BENZO(B)FLUORANTHENE	UG/L		< 2		< 2
BENZO(G,H,I,)PERYLENE	UG/L		< 6		< 6
BENZO(K)FLUORANTHENE	UG/L		< 2		< 2
BIS(2-CL-ETHOXY)METHANE	UG/L		< 3		< 3
BIS(2-CHLOROETHYL)ETHER	UG/L		< 5		< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 3		< 3
DIETHYLHEXYL PHTHALATE	UG/L		< 10		< 10
4-BROMOPHENYL PHENYLETHER	UG/L		< 9		< 9
BUTYLBENZYL PHTHALATE	UG/L		< 3		< 3
2-CHLORONAPHTHALENE	UG/L		< 1		< 1
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2		< 2
CHRYSENE	UG/L		< 2		< 2
DIBENZO(A,H)ANTHRACENE	UG/L		< 6		< 6
1,2-DICHLOROBENZENE	UG/L		< 10		< 10
1,3-DICHLOROBENZENE	UG/L		< 10		< 10
1,4-DICHLOROBENZENE	UG/L		3		< 2
3,3'-DICHLOROBENZIDINE	UG/L		< 100		< 100
DIETHYL PHTHALATE	UG/L		< 2		< 2
DIMETHYL PHTHALATE	UG/L		< 3		< 3
DI-N-BUTYL PHTHALATE	UG/L		< 4		< 4
2,4-DINITROTOLUENE	UG/L		< 3		< 3
2,6-DINITROTOLUENE	UG/L		< 5		< 5

FOOTNOTES : A-CALCULATED VALUE B-OUPLICATE SPIKE C-CHECK NOTES TO USER D-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ62131 08/26/93	WELL EW3-SJ63089 09/16/93	WELL EW3-SJ66412 11/24/93	WELL EW3-SJ67715 12/29/93
ACID-BASE NEUTRAL EXTRACT					
DI-N-OCTYL PHTHALATE	UG/L		< 5	< 5	
1,2-DIPHENYLHYDRAZINE	UG/L		< 1	< 1	
FLUORANTHENE	UG/L		< 2	< 2	
FLUORENE	UG/L		< 2	< 2	
HEXACHLOROBENZENE	UG/L		< 1	< 1	
HEXACHLOROBUTADIENE	UG/L		< 10	< 10	
HEXACHLOROCYCLOPENTADIENE	UG/L		< 100	< 100	
HEXACHLOROETHANE	UG/L		< 12	< 12	
INDENO(1,2,3-C,D)PYRENE	UG/L		< 6	< 6	
ISOPHORONE	UG/L		< 3	< 3	
NAPHTHALENE	UG/L		< 2	< 2	
NITROBENZENE	UG/L		< 2	< 2	
N-NITROSODIMETHYLAMINE	UG/L		< 30	< 30	
N-NITROSODI-N-PROPYLAMINE	UG/L		< 2	< 2	
PHENANTHRENE	UG/L		< 1	< 1	
PYRENE	UG/L		< 2	< 2	
2,3,7,8-TCDD	UG/L		< 3	< 3	
2-CHLOROPHENOL	UG/L		< 8	< 8	
1,2,4-TRICHLOROBENZENE	UG/L		< 3	< 3	
2,4-DICHLOROPHENOL	UG/L		< 3	< 3	
2,4-DIMETHYLPHENOL	UG/L		< 3	< 3	
2,4-DINITROPHENOL	UG/L		< 39	< 39	
2-METHYL-4,6DINITROPHENOL	UG/L		< 17	< 17	
2-NITROPHENOL	UG/L		< 5	< 5	
4-NITROPHENOL	UG/L		< 6	< 6	
4-CHLORO-3-METHYLPHENOL	UG/L		< 2	< 2	
PENTACHLOROPHENOL	UG/L		< 16	< 16	
PHENOL	UG/L		< 3	< 3	
2,4,6-TRICHLOROPHENOL	UG/L		< 2	< 2	
N-NITROSODIPHENYLAMINE	UG/L		< 2	< 2	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-CHECK NOTES TO USER D-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M31A SJ62242 08/31/93	WEFI M31A SJ63538 09/27/93	WEFI M31A SJ67632 12/27/93
ANIONS				
SULFATE	MG/L SO4	1840	1070	1150
CHLORIDE	MG/L CL	457	260	200
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	1330	822	881
MAGNESIUM-HARDNESS	MG/L CACO3	1370	807	844
SODIUM	MG/L NA	346	247	232
POTASSIUM	MG/L K	6.9	6.1	5.6
IRON	MG/L FE	0.03	< 0.02	< 0.02
MANGANESE	MG/L MN	0.72	0.42	0.48
METALS				
ARSENIC	MG/L AS	0.001	<0.001	<0.001
BARIUM	MG/L BA	0.06	0.04	0.05
CADMIUM	MG/L CD	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	0.001	0.001	0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.90	0.40	0.35
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ62243 08/31/93	WELL M31A SJ63541 09/27/93	WELL M31A SJ67635 12/27/93
FIELD PARAMETERS				
DEPTH TO WATER	FT	41.8	44.5	47.0
DEPTH TO BOTTOM	FT	76.3	76.3	76.3
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%02	19	20	20
FIELD WATER TEMPERATURE	DEG C	23	20	21
FIELD PH	PH	6.60	6.81	6.65
FIELD CONDUCTIVITY	UMHOS/CM	4310	4100	3050
FIELD DISSOLVED 02	MG/L	1.50	3.1	3.00
FIELD DISSOLVED C02	MG/L	147.1	167.2	146.1
FIELD TOTAL ALKALINITY	MG/L	830	706	800
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1
GENERAL				
PH	PH	7.15	7.82 D	7.52
CONDUCTIVITY	UMHOS/CM	4450	3350	3350
SUSPENDED SOLIDS	MG/L	2	6	1
TOTAL DISSOLVED SOLIDS	MG/L	3810	1178	2682
TOTAL HARDNESS	MG/L CACO3	2370 B	1570 B	1760 B
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	0.004	0.039	0.002
BORON	MG/L B	1.10	1.03	0.99
ANIONS				
NITRATE NITROGEN	MG/L N	0.10 A	0.07	0.04
SULFATE	MG/L SO4	1590	1070	1150
CHLORIDE	MG/L CL	401	251	205
TOTAL ALKALINITY	MG/L CACO3	789	665	765
BICARBONATE ALKALINITY	MG/L CACO3	789	665	765
TOTAL PHOSPHATE	MG/L PO4	0.31 C	0.32	2.94
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.91	0.71	0.80
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	1170	794	906
MAGNESIUM-HARDNESS	MG/L CACO3	1200	778	852
SODIUM	MG/L NA	310	244	233
POTASSIUM	MG/L K	6.8	5.9	5.7
IRON	MG/L FE	0.34	0.14	0.04
MANGANESE	MG/L MN	0.65	0.43	0.49

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ62243 08/31/93		WELL M31A SJ63541 09/27/93		WELL M31A SJ67635 12/27/93	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1		1.5	
TOTAL BOD	MG/L O	< 1		< 1		1	
SOLUBLE BOD	MG/L O	< 1	D	< 1		1	
TOTAL COD	MG/L O	18		17		14	
SOLUBLE COD	MG/L O	21	C	18		14	
TOTAL ORGANIC CARBON	MG/L C	5.0		4.3		3.7	
OIL & GREASE	MG/L EXTRAC	< 1		< 1		< 0.91	
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40		55		< 40	
ACETIC ACID	MG/L	< 2.0	A	< 2.5		< 2.5	A
PROPIONIC ACID	MG/L	< 2.0	A	< 2.0		< 2.0	A
ISOBUTYRIC ACID	MG/L	< 2.0	A	< 2.0		< 2.0	A
BUTYRIC ACID	MG/L	< 2.0	A	< 2.0		< 2.0	A
ISOVALERIC ACID	MG/L	< 2.0	A	< 2.0		< 2.0	A
VALERIC ACID	MG/L	< 2.0	A	< 2.0		< 2.0	A
METALS							
ARSENIC	MG/L AS	0.001		<0.001		<0.001	
BARIUM	MG/L BA	0.06		0.05		0.05	
CADMIUM	MG/L CD	< 0.01		< 0.01		<0.005	
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.02		< 0.02	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	A	< 0.02		<.0004	
COBALT	MG/L CO	< 0.04		< 0.04		< 0.04	
COPPER	MG/L CU	< 0.02		< 0.02		< 0.02	
LEAD	MG/L PB	< 0.04		< 0.04		< 0.04	
MERCURY	MG/L HG	<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.03		< 0.03		< 0.03	
SELENIUM	MG/L SE	0.001		0.001		0.002	
SILVER	MG/L AG	<0.005		<0.005		<0.005	
ZINC	MG/L ZN	0.73		0.42		0.30	
ANTIMONY	MG/L SB	<0.001		<0.001		<0.001	
BERYLLIUM	MG/L BE	<.0005		<.0005		<.0005	
THALLIUM	MG/L TL	<0.002		<0.002		<0.002	
PESTICIDES							
PP'-DDE	UG/L	< 0.01		< 0.01		< 0.01	
PP'-ODD	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDT	UG/L	< 0.01		< 0.01		< 0.01	
ALPHA-BHC	UG/L	< 0.01		< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01		< 0.01		< 0.01	

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ62243 08/31/93		WELL M31A SJ63541 09/27/93		WELL M31A SJ67635 12/27/93	
PESTICIDES							
ALDRIN	UG/L	< 0.01		< 0.01		< 0.01	
DIELDRIN	UG/L	< 0.01		< 0.01		< 0.01	
ENDRIN	UG/L	< 0.01		< 0.01		< 0.01	
TOXAPHENE	UG/L	< 5		< 5		< 3	
METHOXYCLOR	UG/L	< 2		< 2		< 2	
AROCLOR 1242	UG/L	< 0.1		< 0.1		< 0.1	
AROCLOR 1254	UG/L	< 0.1		< 0.1		< 0.1	
BETA-BHC	UG/L	< 0.01		< 0.01		< 0.01	
DELTA-BHC	UG/L	< 0.01		< 0.01		< 0.01	
ENDOSULFAN I	UG/L	< 0.01		< 0.01		< 0.01	
ENDOSULFAN II	UG/L	< 0.01		< 0.01		< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.01		< 0.01		< 0.01	
ENDRIN ALDEHYDE	UG/L	< 0.01		< 0.01		< 0.01	
AROCLOR 1016	UG/L	< 0.1		< 0.1		< 0.1	
AROCLOR 1221	UG/L	< 0.1		< 0.1		< 0.1	
AROCLOR 1232	UG/L	< 0.1		< 0.1		< 0.1	
AROCLOR 1248	UG/L	< 0.1		< 0.1		< 0.1	
AROCLOR 1260	UG/L	< 0.1		< 0.1		< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.1		< 0.1		< 0.1	
VOLATILE ORGANIC COMPOUND							
METHYLENE CHLORIDE	UG/L	< 1.0		< 1.0		8.2	F
CHLOROFORM	UG/L	< 0.5		< 0.5		< 0.5	
1,1,1-TRICHLOROETHANE	UG/L	< 0.5		< 0.5		< 0.5	
CARBON TETRACHLORIDE	UG/L	< 0.3		< 0.3		< 0.3	
1,1-DICHLOROETHENE	UG/L	< 0.3	A	< 0.3		< 0.3	
TRICHLOROETHYLENE	UG/L	0.7	A	0.3		4.6	
TETRACHLOROETHYLENE	UG/L	< 0.3		< 0.3		1.1	
BROMODICHLOROMETHANE	UG/L	< 0.5		< 0.5		< 0.5	
DIBROMOCHLOROMETHANE	UG/L	< 0.5		< 0.5		< 0.5	
BROMOFORM	UG/L	< 0.5		< 0.5		< 0.5	
CHLOROBENZENE	UG/L	3.4	A	1.3		0.8	
VINYL CHLORIDE	UG/L	< 0.5		< 0.5		< 0.5	
O-DICHLOROBENZENE	UG/L	< 0.5		< 0.5		< 0.5	
M-DICHLOROBENZENE	UG/L	< 0.5		< 0.5		< 0.5	
P-DICHLOROBENZENE	UG/L	2.5		0.8		0.8	
1,1-DICHLOROETHANE	UG/L	< 0.3		< 0.3		< 0.3	
1,1,2-TRICHLOROETHANE	UG/L	< 0.3		< 0.3		< 0.3	
1,2-DICHLOROETHANE	UG/L	0.5		0.5		0.8	
BENZENE	UG/L	< 0.3	A	< 0.3		< 0.3	
TOLUENE	UG/L	< 0.3	A	0.3		0.4	
ETHYL BENZENE	UG/L	< 0.3		< 0.3		< 0.3	

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ62243 08/31/93		WELL M31A SJ63541 09/27/93		WELL M31A SJ67635 12/27/93	
VOLATILE ORGANIC COMPOUND							
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3		< 0.3		< 0.3	
BROMOMETHANE	UG/L	< 2.5		< 2.5		< 2.5	
CHLOROETHANE	UG/L	< 2.5		< 2.5		< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0		< 1.0		< 1.0	
CHLOROMETHANE	UG/L	< 2.5		< 2.5		< 2.5	
1,2-DICHLOROPROPANE	UG/L	< 0.5		< 0.5		< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5		< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5		< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5		< 0.5		< 0.5	
ACROLEIN	UG/L	< 2.5		< 2.5		< 2.5	
ACRYLONITRILE	UG/L	< 1.0		< 1.0		< 1.0	
ACETONE	UG/L	< 5.0		< 5.0		< 5.0	
CIS-1,2-DICHLOROETHYLENE	UG/L			2.9		11	
2-BUTANONE	UG/L	< 1.0		< 1.0		< 1.0	
ACID-BASE NEUTRAL EXTRACT							
ACENAPHTHENE	UG/L	< 2		< 2		< 2	
ACENAPHTHYLENE	UG/L	< 2		< 2		< 2	
ANTHRACENE	UG/L	< 1		< 1		< 1	
BENZIDINE	UG/L	< 62		< 62		< 62	
BENZO(A)ANTHRACENE	UG/L	< 2		< 2		< 2	
BENZO(A)PYRENE	UG/L	< 7		< 7		< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2		< 2		< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6		< 6		< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2		< 2		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3		< 3		< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5		< 5		< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3		< 3		< 3	
DIETHYLHEXYL PHTHALATE	UG/L	3	E	< 10		< 10	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9		< 9		< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3		< 3		< 3	
2-CHLORONAPHTHALENE	UG/L	< 1		< 1		< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2		< 2		< 2	
CHRYSENE	UG/L	< 2		< 2		< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6		< 6		< 6	
1,2-DICHLOROBENZENE	UG/L	< 10		< 10		< 10	
1,3-DICHLOROBENZENE	UG/L	< 10		< 10		< 10	
1,4-DICHLOROBENZENE	UG/L	2		< 2		< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100		< 100		< 100	
DIETHYL PHTHALATE	UG/L	< 2		< 2		< 2	
DIMETHYL PHTHALATE	UG/L	< 3		< 3		< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4		< 4		< 4	

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ62243 08/31/93		WELL M31A SJ63541 09/27/93		WELL M31A SJ67635 12/27/93	
ACID-BASE NEUTRAL EXTRACT							
2,4-DINITROTOLUENE	UG/L	<	3	<	3	<	3
2,6-DINITROTOLUENE	UG/L	<	5	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2	<	2
FLUORENE	UG/L	<	2	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1	<	1
PYRENE	UG/L	<	2	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3	<	3
2-CHLOROPHENOL	UG/L	<	8	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	3	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5	<	5
4-NITROPHENOL	UG/L	<	6	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16	<	16
PHENOL	UG/L	<	3	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2	<	2

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M32B SJ62158 08/27/93	WEFI M32B SJ63539 09/27/93	WEFI M32B SJ67674 12/28/93
ANIONS				
SULFATE	MG/L SO4	234	770	1330
CHLORIDE	MG/L CL	71	142	235
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	199	347	492
MAGNESIUM-HARDNESS	MG/L CACO3	155	436	761
SODIUM	MG/L NA	78.2	182	271
POTASSIUM	MG/L K	5.3	8.1	12.2
IRON	MG/L FE	< 0.02	< 0.02	< 0.02
MANGANESE	MG/L MN	0.10	0.25	1.09
METALS				
ARSENIC	MG/L AS	0.003	0.006	0.004
BARIUM	MG/L BA	0.11	0.11	0.07
CADMIUM	MG/L CD	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	.0001	<.0001	<.0001
NICKEL	MG/L NI	0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.69	0.60	0.06
ANTIMONY	MG/L SB	<0.001	0.001	0.007
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M32B SJ62160 08/27/93		WELL M32B SJ63542 09/27/93		WELL M32B SJ67678 12/28/93	
FIELD PARAMETERS							
DEPTH TO WATER	FT	38.4		41.9		44.2	
DEPTH TO BOTTOM	FT	116.1		116.2		116.2	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	19		19		20	
FIELD WATER TEMPERATURE	DEG C	25		21		21.2	
FIELD PH	PH	7.57		7.19		7.37	
FIELD CONDUCTIVITY	UMHOS/CM	983		2090		2910	
FIELD DISSOLVED O2	MG/L	5.1		2.6		4.80	
FIELD DISSOLVED CO2	MG/L	17.6		33.4		24.6	
FIELD TOTAL ALKALINITY	MG/L	202		254		250	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1	
GENERAL							
PH	PH	8.29		8.07			
CONDUCTIVITY	UMHOS/CM	1060		2130	E		
SUSPENDED SOLIDS	MG/L	3		34			
TOTAL DISSOLVED SOLIDS	MG/L	818		2831			
TOTAL HARDNESS	MG/L CACO3	348	A	841	A		
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01	
PHENOLS	MG/L C6H5OH	0.004		<0.001		D.005	
BORON	MG/L B	0.25		0.44		0.53	
ANIONS							
NITRATE NITROGEN	MG/L N	1.35		1.43			
SULFATE	MG/L SO4	130		813		1110	
CHLORIDE	MG/L CL	67		152		235	
TOTAL ALKALINITY	MG/L CACO3	204		232	B		
BICARBONATE ALKALINITY	MG/L CACO3	192		232			
TOTAL PHOSPHATE	MG/L PO4	2.62		8.35	B	6.60	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.36		0.33		0.47	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	196		384			
MAGNESIUM-HARDNESS	MG/L CACO3	152		457			
SODIUM	MG/L NA	77.9		189			
POTASSIUM	MG/L K	5.5		8.6			
IRON	MG/L FE	0.44		1.37			
MANGANESE	MG/L MN	0.10		0.29			

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-DUPLICATE SPIKE D-AMENDED TEST RESULT E-AVERAGE OF DUPS
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M32B SJ62160 08/27/93		WELL M32B SJ63542 09/27/93		WELL M32B SJ67678 12/28/93	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	0.2		0.6		1.0	
TOTAL BOD	MG/L O	1		1			
SOLUBLE BOD	MG/L O	1		< 1	E		
TOTAL COD	MG/L O	4	B	9	B		
SOLUBLE COD	MG/L O	2		7			
TOTAL ORGANIC CARBON	MG/L C	0.26		8.3		3.3	C
OIL & GREASE	MG/L EXTRAC	< 1	C	< 1		< 0.91	
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40		< 40		< 40	
ACETIC ACID	MG/L	< 2.0		< 2.5		< 2.5	
PROPIONIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
BUTYRIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
ISOVALERIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
VALERIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
METALS							
ARSENIC	MG/L AS	0.003		0.007		0.005	
BARIUM	MG/L BA	0.11		0.13			
CADMIUM	MG/L CD	< 0.01		< 0.01			
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.02			
HEXAVALENT CHROMIUM	MG/L CR	< 0.02		< 0.02	C	.0018	C
COBALT	MG/L CO	< 0.4		< 0.04			
COPPER	MG/L CU	0.04		< 0.02			
LEAD	MG/L PB	< 0.04		< 0.04			
MERCURY	MG/L HG	.0001		<.0001			
NICKEL	MG/L NI	0.03		< 0.03			
SELENIUM	MG/L SE	0.001		<0.001		<0.001	
SILVER	MG/L AG	<0.005		<0.005			
ZINC	MG/L ZN	0.53		0.68			
ANTIMONY	MG/L SB	<0.001		0.001		0.002	
BERYLLIUM	MG/L BE	<.0005		<.0005			
THALLIUM	MG/L TL	<0.002		<0.002			
PESTICIDES							
PP'-DDE	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDD	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDT	UG/L	< 0.01		< 0.01		< 0.01	
ALPHA-BHC	UG/L	< 0.01		< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01		< 0.01		< 0.01	

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-DUPLICATE SPIKE D-AMENDED TEST RESULT E-AVERAGE OF DUPS
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M32B SJ62160 08/27/93	WELL M32B SJ63542 09/27/93	WELL M32B SJ67678 12/28/93
PESTICIDES				
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1
ARDCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	5.7 F
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3 C	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3 C	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	2.2	0.7	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5 C	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3 C	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3 C	0.3 F
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-DUPLICATE SPIKE D-AMENDED TEST RESULT E-AVERAGE OF DUPS
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M32B SJ62160 08/27/93	WELL M32B SJ63542 09/27/93	WELL M32B SJ67678 12/28/93
VOLATILE ORGANIC COMPOUND				
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.3	0.3
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACT				
ACENAPHTHENE	UG/L	< 2	< 2	
ACENAPHTHYLENE	UG/L	< 2	< 2	
ANTHRACENE	UG/L	< 1	< 1	
BENZIDINE	UG/L	< 62	< 62	
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	
BENZO(A)PYRENE	UG/L	< 7	< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	1 D	< 10	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	
CHRYSENE	UG/L	< 2	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	
DIETHYL PHTHALATE	UG/L	< 2	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-DUPLICATE SPIKE D-AMENDED TEST RESULT E-AVERAGE OF DUPS
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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M32B SJ62160 08/27/93		WELL M32B SJ63542 09/27/93		WELL M32B SJ67678 12/28/93						
ACID-BASE NEUTRAL EXTRACT												
2,4-DINITROTOLUENE	UG/L	<	3	<	3							
2,6-DINITROTOLUENE	UG/L	<	5	<	5							
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5							
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1							
FLUORANTHENE	UG/L	<	2	<	2							
FLUORENE	UG/L	<	2	<	2							
HEXACHLOROBENZENE	UG/L	<	1	<	1							
HEXACHLOROBUTADIENE	UG/L	<	10	<	10							
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100							
HEXACHLOROETHANE	UG/L	<	12	<	12							
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6							
ISOPHORONE	UG/L	<	3	<	3							
NAPHTHALENE	UG/L	<	2	<	2							
NITROBENZENE	UG/L	<	2	<	2							
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30							
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2							
PHENANTHRENE	UG/L	<	1	<	1							
PYRENE	UG/L	<	2	<	2							
2,3,7,8-TCDD	UG/L	<	3	<	3							
2-CHLOROPHENOL	UG/L	<	8	<	8							
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3							
2,4-DICHLOROPHENOL	UG/L	<	3	<	3							
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3							
2,4-DINITROPHENOL	UG/L	<	39	<	39							
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17							
2-NITROPHENOL	UG/L	<	5	<	5							
4-NITROPHENOL	UG/L	<	6	<	6							
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2							
PENTACHLOROPHENOL	UG/L	<	16	<	16							
PHENOL	UG/L	<	3	<	3							
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2							
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2							

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-DUPLICATE SPIKE D-AMENDED TEST RESULT E-AVERAGE OF DUPS
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M33A SJ62159 08/27/93	WEFI M33A SJ63577 09/28/93	WEFI M33A SJ67633 12/27/93
ANIONS				
SULFATE	MG/L SO4	970	807	715 B
CHLORIDE	MG/L CL	246	177	181
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	844	649	619
MAGNESIUM-HARDNESS	MG/L CACO3	831	605	605
SODIUM	MG/L NA	242	200	196
POTASSIUM	MG/L K	5.3	4.4	4.5
IRON	MG/L FE	< 0.02	< 0.02	< 0.02
MANGANESE	MG/L MN	0.28	0.2	0.21
METALS				
ARSENIC	MG/L AS	0.001	<0.001	<0.001
BARIUM	MG/L BA	0.7	0.05	0.05
CADMIUM	MG/L CD	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.4	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001 A	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	0.001	0.001	0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.17	0.04	0.03
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ62161 08/27/93		WELL M33A SJ63579 09/28/93		WELL M33A SJ67636 12/27/93	
FIELD PARAMETERS							
DEPTH TO WATER	FT	42.8		46.4		48.4	
DEPTH TO BOTTOM	FT	80.7		77.0		77.0	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	19		18		20	
FIELD WATER TEMPERATURE	DEG C	26		22.6		18	
FIELD PH	PH	6.81		6.95		6.76	
FIELD CONDUCTIVITY	UMHOS/CM	2830		2670		2420	
FIELD DISSOLVED O2	MG/L	1.6		2.25		1.80	
FIELD DISSOLVED CO2	MG/L	91.5		63.4		82.7	
FIELD TOTAL ALKALINITY	MG/L	676		624		632	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1	
GENERAL							
PH	PH	7.88	A	7.84		7.75	
CONDUCTIVITY	UMHOS/CM	3260	A	2740		2580	
SUSPENDED SOLIDS	MG/L	4	A	5		3	
TOTAL DISSOLVED SOLIDS	MG/L	2761	B	1707		1908	
TOTAL HARDNESS	MG/L CACO3	1365	C	1250	C	1220	C
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01	
PHENOLS	MG/L C6H5OH	0.002		<0.001		0.003	
BORON	MG/L B	0.59		0.88		0.90	
ANIONS							
NITRATE NITROGEN	MG/L N	0.37		0.39		0.54	
SULFATE	MG/L SO4	234		770		720	
CHLORIDE	MG/L CL	225		175		176	
TOTAL ALKALINITY	MG/L CACO3	513		572		624	
BICARBONATE ALKALINITY	MG/L CACO3	513	C	572		624	
TOTAL PHOSPHATE	MG/L PO4	0.45	B	0.50		0.46	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.96		0.79		0.83	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	702		647		609	
MAGNESIUM-HARDNESS	MG/L CACO3	663		605		613	
SODIUM	MG/L NA	202		195		194	
POTASSIUM	MG/L K	5.3		4.6		4.0	
IRON	MG/L FE	0.18		0.08		0.04	
MANGANESE	MG/L MN	0.29		0.2		0.20	

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ62161 08/27/93		WELL M33A SJ63579 09/28/93		WELL M33A SJ67636 12/27/93	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1		< 0.1	
TOTAL BOD	MG/L O	1		1		1	
SOLUBLE BOD	MG/L O	1	A	< 1		1	
TOTAL COD	MG/L O	14		14		16	
SOLUBLE COD	MG/L O	15		11		12	
TOTAL ORGANIC CARBON	MG/L C	3.3		3.3		3.8	
OIL & GREASE	MG/L EXTRAC	< 1		1.4		< 0.91	
TOTAL ORGANIC HALOGEN(TOX	UG/L	43		54		< 40	
ACETIC ACID	MG/L	< 2.0		< 2.5		< 2.5	
PROPIONIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
BUTYRIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
ISOVALERIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
VALERIC ACID	MG/L	< 2.0		< 2.0		< 2.0	
METALS							
ARSENIC	MG/L AS	0.001		<0.001		<0.001	
BARIUM	MG/L BA	0.07		0.05		0.04	
CADMIUM	MG/L CD	< 0.01		< 0.01		<0.005	
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.02		< 0.02	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	D	< 0.02		<.0004	
COBALT	MG/L CO	< 0.04		< 0.04		< 0.04	
COPPER	MG/L CU	< 0.02		< 0.02		< 0.02	
LEAD	MG/L PB	< 0.04		< 0.04		< 0.04	
MERCURY	MG/L HG	<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.03		< 0.03		< 0.03	
SELENIUM	MG/L SE	0.001		0.001		0.001	
SILVER	MG/L AG	<0.005		<0.005		<0.005	
ZINC	MG/L ZN	0.10		0.05		< 0.02	
ANTIMONY	MG/L SB	<0.001		<0.001		<0.001	
BERYLLIUM	MG/L BE	<.0005		<.0005		<.0005	
THALLIUM	MG/L TL	<0.002		<0.002		<0.002	
PESTICIDES							
PP'-DDE	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDD	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDT	UG/L	< 0.01		< 0.01		< 0.01	
ALPHA-BHC	UG/L	< 0.01		< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01		< 0.01		< 0.01	

FOOTNOTES : A-AVERAGE OF OUPS B-DUP & SPIKE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ62161 08/27/93	WELL M33A SJ63579 09/28/93	WELL M33A SJ67636 12/27/93
PESTICIDES				
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01
ARDCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	7.4 E
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	0.6	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	0.4
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	0.4	1.0
BENZENE	UG/L	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ62161 08/27/93	WELL M33A SJ63579 09/28/93	WELL M33A SJ67636 12/27/93
VOLATILE ORGANIC COMPOUND				
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.3	1.1
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACT				
ACENAPHTHENE	UG/L	< 2	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2
ANTHRACENE	UG/L	< 1	< 1	< 1
BENZIDINE	UG/L	< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 6
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	< 10
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2
CHRYSENE	UG/L	< 2	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ62161 08/27/93		WELL M33A SJ63579 09/28/93		WELL M33A SJ67636 12/27/93	
ACID-BASE NEUTRAL EXTRACT							
2,4-DINITROTOLUENE	UG/L	<	3	<	3	<	3
2,6-DINITROTOLUENE	UG/L	<	5	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2	<	2
FLUORENE	UG/L	<	2	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1	<	1
PYRENE	UG/L	<	2	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3	<	3
2-CHLOROPHENOL	UG/L	<	8	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	3	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5	<	5
4-NITROPHENOL	UG/L	<	6	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16	<	16
PHENOL	UG/L	<	3	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2	<	2

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DIST. S OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M34B SJ63578 09/28/93		WEFI M34B SJ64466 10/15/93		WEFI M34B SJ67634 12/27/93	
ANIONS							
SULFATE	MG/L SO4	1160		1300	B	1180	
CHLORIDE	MG/L CL	219		218		215	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	457	A	472		449	
MAGNESIUM-HARDNESS	MG/L CACO3	712	A	700		741	
SODIUM	MG/L NA	255	A	249		268	
POTASSIUM	MG/L K	7.2	A	6.1		6.4	
IRON	MG/L FE	< 0.02	A	0.07		0.03	
MANGANESE	MG/L MN	0.23	A	0.14		0.17	
METALS							
ARSENIC	MG/L AS	<0.001		<0.003		<0.001	
BARIUM	MG/L BA	0.05	A	0.03		0.03	
CADMIUM	MG/L CD	< 0.01	A	< 0.01		<0.005	
TOTAL CHROMIUM	MG/L CR	< 0.02	A	< 0.02		< 0.02	
COBALT	MG/L CO	< 0.04	A	< 0.04		< 0.04	
COPPER	MG/L CU	< 0.02	A	< 0.02		< 0.02	
LEAD	MG/L PB	< 0.04	A	< 0.04		< 0.04	
MERCURY	MG/L HG	<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.03	A	< 0.03		< 0.03	
SELENIUM	MG/L SE	<0.001		< 0.01		0.001	
SILVER	MG/L AG	<0.005	A	<0.005		<0.005	
ZINC	MG/L ZN	1.31	A	0.21		0.10	
ANTIMONY	MG/L SB	<0.001		<0.003		<0.001	
BERYLLIUM	MG/L BE	<.0005	A	<.0005		<.0005	
THALLIUM	MG/L TL	<0.002	A	<0.002		<0.002	

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M34B SJ63580 09/28/93		WELL M34B SJ64468 10/15/93		WELL M34B SJ67637 12/27/93	
FIELD PARAMETERS							
DEPTH TO WATER	FT	47.3		48.5		48.8	
DEPTH TO BOTTOM	FT	119.4		119.4		119.4	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	16		18		17	
FIELD WATER TEMPERATURE	DEG C	23.9		22		20	
FIELD PH	PH	7.11		7.36		6.88	
FIELD CONDUCTIVITY	UMHOS/CM	2810		2780		2670	
FIELD DISSOLVED O2	MG/L	3.70		2.2		8.4	
FIELD DISSOLVED CO2	MG/L	47.5		18.4		28.2	
FIELD TOTAL ALKALINITY	MG/L	264		228		226	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1	
GENERAL							
PH	PH	8.06	A	7.48		8.10	
CONDUCTIVITY	UMHOS/CM	2910		2110		2880	
SUSPENDED SOLIDS	MG/L	13		6		24	A
TOTAL DISSOLVED SOLIDS	MG/L	2631		2287		2301	
TOTAL HARDNESS	MG/L CACO3	1180	C	1100	C	1160	C
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01	
PHENOLS	MG/L C6H5OH	<0.001		0.001		0.005	
BORON	MG/L B	0.49		0.39		0.47	
ANIONS							
NITRATE NITROGEN	MG/L N	0.31		0.19		0.26	
SULFATE	MG/L SO4	1140		1110		1200	
CHLORIDE	MG/L CL	217		219		215	
TOTAL ALKALINITY	MG/L CACO3	226	B	226		230	D
BICARBONATE ALKALINITY	MG/L CACO3	226	B	226		230	C
TOTAL PHOSPHATE	MG/L PO4	0.85	D	0.22		2.17	D
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.26		0.26		0.22	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	469		424	E	434	E
MAGNESIUM-HARDNESS	MG/L CACO3	716		679	E	729	E
SODIUM	MG/L NA	258		240	E	266	E
POTASSIUM	MG/L K	7.9		6.2	E	6.7	E
IRON	MG/L FE	3.23		0.46	E	1.68	E
MANGANESE	MG/L MN	0.27		0.13	E	0.18	E

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M34B SJ63580 09/28/93	WELL M34B SJ64468 10/15/93	WELL M34B SJ67637 12/27/93
ORGANIC MATTER				
AMMONIA NITROGEN	MG/L N	1.7	1.3	1.3
TOTAL BOD	MG/L O	2	6	8
SOLUBLE BOD	MG/L O	< 1 A	< 1	1 A
TOTAL COD	MG/L O	11	8	11
SOLUBLE COD	MG/L O	10	6	8
TOTAL ORGANIC CARBON	MG/L C	7.5	1.2	2.2
OIL & GREASE	MG/L EXTRAC	1.2	< 1	< 0.91
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40	< 40	< 40
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0
METALS				
ARSENIC	MG/L AS	0.001	<0.003	0.001
BARIUM	MG/L BA	0.08	0.03 E	0.04 E
CADMIUM	MG/L CD	< 0.01	< 0.01 E	<0.005 E
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02 E	< 0.02 E
HEXAVALENT CHROMIUM	MG/L CR	< 0.02 E	< 0.02	<.0007 E
COBALT	MG/L CO	< 0.04	< 0.04 E	< 0.04 E
COPPER	MG/L CU	< 0.02	< 0.02 E	< 0.02 E
LEAD	MG/L PB	< 0.04	< 0.04 E	< 0.04 E
MERCURY	MG/L HG	<.0001	<.0001 E	<.0001 E
NICKEL	MG/L NI	< 0.03	< 0.03 E	< 0.03 E
SELENIUM	MG/L SE	<0.001	< 0.01	0.001
SILVER	MG/L AG	<0.005	<0.005 E	<0.005 E
ZINC	MG/L ZN	1.34	0.24 E	0.14 E
ANTIMONY	MG/L SB	0.001	<0.003	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005 E	<.0005 E
THALLIUM	MG/L TL	<0.002	<0.002 E	<0.002 E
PESTICIDES				
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ53675 03/10/93	WELL M17A SJ58637 06/15/93	WELL M17A SJ63283 09/21/93	WELL M17A SJ67357 12/16/93
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 2	< 2	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	< 2
ANTHRACENE	UG/L	< 1	< 1	< 1	< 1
BENZIDINE	UG/L	< 62	< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	< 2
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 6	< 6
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	9 D	< 10	< 10	< 10
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	< 2
CHRYSENE	UG/L	< 2	< 2	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	< 4

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ53675 03/10/93	WELL M17A SJ58637 06/15/93	WELL M17A SJ63283 09/21/93	WELL M17A SJ67357 12/16/93
ACID-BASE NEUTRAL EXTRACT					
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3	< 3
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1	< 1
FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
FLUORENE	UG/L	< 2	< 2	< 2	< 2
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100	< 100
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6	< 6
ISOPHORONE	UG/L	< 3	< 3	< 3	< 3
NAPHTHALENE	UG/L	< 2	< 2	< 2	< 2
NITROBENZENE	UG/L	< 2	< 2	< 2	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2	< 2
PHENANTHRENE	UG/L	< 1	< 1	< 1	< 1
PYRENE	UG/L	< 2	< 2	< 2	< 2
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3	< 3
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3	< 3
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3	< 3
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17	< 17
2-NITROPHENOL	UG/L	< 5	< 5	< 5	< 5
4-NITROPHENOL	UG/L	< 6	< 6	< 6	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2	< 2
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16	< 16
PHENOL	UG/L	< 3	< 3	< 3	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2	< 2

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M18A SJ53671 03/10/93	WEFI M18A SJ58634 06/15/93	WEFI M18A SJ63335 09/22/93	WEFI M18A SJ67356 12/16/93
ANIONS					
SULFATE	MG/L SO4	550	1710	2500	1950
CHLORIDE	MG/L CL	76 A	161	194	202
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	437	824	1150	1180
MAGNESIUM-HARDNESS	MG/L CACO3	412	889	1210	316
SODIUM	MG/L NA	122	311	419	456
POTASSIUM	MG/L K	23.8	7.5	8.1	9.4
IRON	MG/L FE	< 0.02	28.9	0.05	< 0.02
MANGANESE	MG/L MN	< 0.01	6.27	< 0.01	0.03
METALS					
ARSENIC	MG/L AS	0.002	<0.001	<0.001	0.001
BARIUM	MG/L BA	0.03	0.04	0.02	0.02
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	0.12	0.58
SELENIUM	MG/L SE	0.004	0.017	0.023	0.014
SILVER	MG/L AG	<0.005	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.10	< 0.02	0.02	
ANTIMONY	MG/L SB	0.002	0.003	<0.001	<0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	<0.002

FOOTNOTES : A-DUP & SPIKE

COUNTY SANITATION DIST S OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ53676 03/10/93	WELL M18A SJ58638 06/15/93	WELL M18A SJ63339 09/22/93	WELL M18A SJ67358 12/16/93
FIELD PARAMETERS					
DEPTH TO WATER	FT	3.5	17.5	31.5	38.3
DEPTH TO BOTTOM	FT	49.5	49.5	49.6	49.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	17	19	19	18
FIELD WATER TEMPERATURE	DEG C	15	20	19.4	15.7
FIELD PH	PH	7.14	6.78	6.87	7.05
FIELD CONDUCTIVITY	UMHOS/CM	1930	3020	4540	4390
FIELD DISSOLVED O2	MG/L	7.2	6.8	7.7	4.00
FIELD DISSOLVED CO2	MG/L	51.8	100.3	58.1	35.2
FIELD TOTAL ALKALINITY	MG/L	314	356	316	340
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	< 0.1
GENERAL					
PH	PH	8.12	8.05 E	7.92	7.37
CONDUCTIVITY	UMHOS/CM	2160	3890 E	4760	5025 E
SUSPENDED SOLIDS	MG/L	1	52	57	46 E
TOTAL DISSOLVED SOLIDS	MG/L	1663	3489	4451	4696 A
TOTAL HARDNESS	MG/L CACO3	1020 B	1800 B	2420 B	2490 B
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	<0.001	0.001	0.008	0.002
BORON	MG/L B	0.45	0.98	1.18	1.05
ANIONS					
NITRATE NITRDGEN	MG/L N	33.19	22.3	13.8	11.0
SULFATE	MG/L SO4	672 A	1890	2460	2270
CHLORIDE	MG/L CL	81	169	201	207
TOTAL ALKALINITY	MG/L CACO3	316	301	310	322 A
BICARBONATE ALKALINITY	MG/L CACO3	316	301	310	322
TOTAL PHOSPHATE	MG/L PO4	4.00	1.05 A	0.58	1.06 A
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1 E	< 0.1	< 0.1 E
FLUORIDE	MG/L F	0.46	1.21 A	1.11	1.19
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	522 C	854 C	1180	1190 C
MAGNESIUM-HARDNESS	MG/L CACO3	502 C	947 C	1240	1300 C
SODIUM	MG/L NA	148 C	321 C	439	475 C
POTASSIUM	MG/L K	23.5 C	8.2 C	9.0	9.9 C
IRON	MG/L FE	0.40 C	3.85 C	5.05	4.36 C
MANGANESE	MG/L MN	< 0.01 C	0.08 C	0.09	0.12 C
SOLUBLE IRON	MG/L FE	< 0.1 C	0.09 C		

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL E-AVERAGE OF DUPS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ53677 03/10/93	WELL M19B SJ58734 06/16/93	WELL M19B SJ63340 09/22/93	WELL M19B SJ67308 12/15/93
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	0.1	< 0.1
TOTAL BOD	MG/L O	1	1	< 1	1
SDLUBLE BOD	MG/L O	< 1	< 1	< 1	< 1
TOTAL COD	MG/L O	6 A	8	10	7
SOLUBLE COD	MG/L O	< 3	7	10	6
TOTAL ORGANIC CARBON	MG/L C	2.1 C	1.7	4.8	1.6
OIL & GREASE	MG/L EXTRAC	< 1	< 1	< 1	< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40	< 40	< 40	< 40
ACETIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0
METALS					
ARSENIC	MG/L AS	0.001	0.002	<0.001	0.001
BARIUM	MG/L BA	0.05	0.04	0.08	0.05
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001 C
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	0.001	<0.001	<0.001
SILVER	MG/L AG	0.007	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.02	< 0.02	0.05	< 0.02
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	< 0.01	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	<0.002
PESTICIDES					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ53677 03/10/93	WELL M19B SJ58734 06/16/93	WELL M19B SJ63340 09/22/93	WELL M19B SJ67308 12/15/93		
PESTICIDES							
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
TOXAPHENE	UG/L	< 5	< 5	< 5	< 3		
METHOXYCLOR	UG/L	< 2	< 2	< 2	< 2		
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01		
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1		
VOLATILE ORGANIC COMPOUND							
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	5.8	E	
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	0.4		
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3		
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	C	
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	C	
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3		
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	C	
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5		
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3		
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3		
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3		
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	C	
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	0.6	C	
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3		

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ53677 03/10/93	WELL M19B SJ58734 06/16/93	WELL M19B SJ63340 09/22/93	WELL M19B SJ67308 12/15/93
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLDROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5 C
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0 C
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0 C
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0 C
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 2	< 2	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	< 2
ANTHRACENE	UG/L	< 1	< 1	< 1	< 1
BENZIDINE	UG/L	< 62	< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	< 2
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
BENZO(G.H.I.)PERYLENE	UG/L	< 6	< 6	< 6	< 6
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	19	2 D	2 D	< 10
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	< 2
CHRYSENE	UG/L	< 2	< 2	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	< 4

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ53677 03/10/93	WELL M19B SJ58734 06/16/93	WELL M19B SJ63340 09/22/93	WELL M19B SJ67308 12/15/93
ACID-BASE NEUTRAL EXTRACT					
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3	< 3
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1	< 1
FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
FLUORENE	UG/L	< 2	< 2	< 2	< 2
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100	< 100
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6	< 6
ISOPHORONE	UG/L	< 3	< 3	< 3	< 3
NAPHTHALENE	UG/L	< 2	< 2	< 2	< 2
NITROBENZENE	UG/L	< 2	< 2	< 2	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2	< 2
PHENANTHRENE	UG/L	< 1	< 1	< 1	< 1
PYRENE	UG/L	< 2	< 2	< 2	< 2
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3	< 3
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3	< 3
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3	< 3
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17	< 17
2-NITROPHENOL	UG/L	< 5	< 5	< 5	< 5
4-NITROPHENOL	UG/L	< 6	< 6	< 6	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2	< 2
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16	< 16
PHENOL	UG/L	< 3	< 3	< 3	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2	< 2

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M23A SJ53673 03/10/93	WEFI M23A SJ58731 06/16/93	WEFI M23A SJ63337 09/22/93	WEFI M23A SJ67307 12/15/93
ANIONS					
SULFATE	MG/L SO4	3800	2380	2400	2260
CHLORIDE	MG/L CL	152	193	175 A	160
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	1290	1290	1360 B	1220
MAGNESIUM-HARDNESS	MG/L CACO3	2050	1120	1080 B	1080
SODIUM	MG/L NA	227	271	278 B	264
POTASSIUM	MG/L K	5.0	5.5	5.7 B	5.3
IRON	MG/L FE	15.5	6.56	5.78 B	6.73
MANGANESE	MG/L MN	14.2	1.83	1.04 B	0.79
METALS					
ARSENIC	MG/L AS	<0.001	0.001	0.001	0.001
BARIUM	MG/L BA	0.02	0.02	0.02 B	0.01
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01 B	<0.005
TOTAL CHROMIUM	MG/L CR	0.15	< 0.02	< 0.02 B	< 0.02
COBALT	MG/L CO	0.42	< 0.04	< 0.04 B	< 0.04
COPPER	MG/L CU	0.16	< 0.02	< 0.02 B	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04 B	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	1.32	< 0.03	< 0.03 B	< 0.03
SELENIUM	MG/L SE	0.001	<0.001	<0.001	<0.001
SILVER	MG/L AG	0.005	<0.005	<0.005 B	<0.005
ZINC	MG/L ZN	0.85	0.04	< 0.02 B	< 0.02
ANTIMONY	MG/L SB	0.001	0.005	<0.001	<0.001
BERYLLIUM	MG/L BE	0.02	<.0005	<.0005 B	<.0005
THALLIUM	MG/L TL	<0.050	<0.002	<0.002 B	<0.002

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ53678 03/10/93		WELL M23A SJ58735 06/16/93		WELL M23A SJ63341 09/22/93		WELL M23A SJ67309 12/15/93	
FIELD PARAMETERS									
DEPTH TO WATER	FT	38.1		34.3		34.2		34.4	
DEPTH TO BOTTOM	FT	43.6		43.6		43.5		43.5	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	19		20		21		20	
FIELD WATER TEMPERATURE	DEG C	17		19		18.6		16.4	
FIELD PH	PH	4.21		6.05		6.40		6.92	
FIELD CONDUCTIVITY	UMHOS/CM	5350		4040		4150		3710	
FIELD DISSOLVED O2	MG/L	1.2		2.8		2.2		2.10	
FIELD DISSOLVED CO2	MG/L	479.9		13.9		139.0		59.8	
FIELD TOTAL ALKALINITY	MG/L			404		406		442	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1		< 0.1	
GENERAL									
PH	PH	4.34	A	6.88		7.44		7.00	
CONDUCTIVITY	UMHOS/CM	5275	A	4330	A	4260		4150	A
SUSPENDED SOLIDS	MG/L	44		12		150		154	
TOTAL DISSOLVED SOLIDS	MG/L	5957		4150		3829		3841	
TOTAL HARDNESS	MG/L CACO3	3380	C	2620	C	2440	C	2370	C
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01		< 0.01	
PHENOLS	MG/L C6H5OH	<0.001		0.001		0.001		0.003	
BORON	MG/L B	0.63	D	0.86		0.87		0.69	
ANIONS									
NITRATE NITROGEN	MG/L N	0.13		0.05		0.13		0.10	
SULFATE	MG/L SO4	4000		1500		1070		2280	D
CHLORIDE	MG/L CL	153		201		181		165	
TOTAL ALKALINITY	MG/L CACO3		B	355		381		400	
BICARBONATE ALKALINITY	MG/L CACO3		B	355		381		400	
TOTAL PHOSPHATE	MG/L PO4	4.88		1.93		1.36		1.60	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	3.23		0.72		1.05		1.11	D
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	1280		1460		1350		1270	
MAGNESIUM-HARDNESS	MG/L CACO3	2100		1160		1090		1100	
SODIUM	MG/L NA	228		286		283		270	
POTASSIUM	MG/L K	6.3		5.9		5.7		5.3	
IRON	MG/L FE	18.5		14.7		22.4		26.2	
MANGANESE	MG/L MN	13.6		1.87		1.00		0.80	
SOLUBLE IRON	MG/L FE	14.8		3.79					

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE = C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ53678 03/10/93	WELL M23A SJ58735 06/16/93	WELL M23A SJ63341 09/22/93	WELL M23A SJ67309 12/15/93
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	2.3	0.8
TOTAL BOD	MG/L O	1	5	6	5
SOLUBLE BOD	MG/L O	1 A	1	1 A	1
TOTAL COD	MG/L O	59	26	41	20
SOLUBLE COD	MG/L O	10	10	11	9
TOTAL ORGANIC CARBON	MG/L C	12 E	7.6 E	5.0	4.4
OIL & GREASE	MG/L EXTRAC	< 1	< 1 E	< 1	< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40	< 40	< 40	< 40
ACETIC ACID	MG/L	< 2.0 E	< 2.0	< 2.0	< 2.5 E
PROPIONIC ACID	MG/L	< 2.0 E	< 2.0	< 2.0	< 2.0 E
ISOBUTYRIC ACID	MG/L	< 2.0 E	< 2.0	< 2.0	< 2.0 E
BUTYRIC ACID	MG/L	< 2.0 E	< 2.0	< 2.0	< 2.0 E
ISOVALERIC ACID	MG/L	< 2.0 E	< 2.0	< 2.0	< 2.0 E
VALERIC ACID	MG/L	< 2.0 E	< 2.0	< 2.0	< 2.0 E
METALS					
ARSENIC	MG/L AS	0.001	0.002	0.008	0.018
BARIUM	MG/L BA	0.06	0.04	0.03	0.02
CADMIUM	MG/L CD	0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	0.30	0.18	0.02	0.02
HEXAVALENT CHROMIUM	MG/L CR	< 0.02 E	< 0.02	< 0.02	< 0.02 E
COBALT	MG/L CO	0.40	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	0.27	0.16	0.06	0.03
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	.0003	<.0001	.0001
NICKEL	MG/L NI	1.38	0.05	< 0.03	< 0.03
SELENIUM	MG/L SE	0.001	0.002	0.001	0.001
SILVER	MG/L AG	0.012	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.89	0.08	0.04	0.02
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	0.02	.0149	.0029	.0014
THALLIUM	MG/L TL	<0.050	<0.002	<0.002	<0.002
PESTICIDES					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ53678 03/10/93	WELL M23A SJ56735 06/16/93	WELL M23A SJ63341 09/22/93	WELL M23A SJ67309 12/15/93						
PESTICIDES											
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
TOXAPHENE	UG/L	< 5	< 5	< 5	< 3						
METHOXYCLOR	UG/L	< 2	< 2	< 2	< 2						
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1						
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	3.5 F						
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	3.3						
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						

FOOTNOTES : A-AVERAGE OF OUPS B-CALCULATED VALUE = C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ53678 03/10/93	WELL M23A SJ58735 06/16/93	WELL M23A SJ63341 09/22/93	WELL M23A SJ67309 12/15/93
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5 E
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0 E
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0 E
CIS-1,2-DICHLORDETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0 E
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 2	< 2	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	< 2
ANTHRACENE	UG/L	< 1	< 1	< 1	< 1
BENZIDINE	UG/L	< 62	< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	< 2
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 6	< 6
BENZD(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	10	11	11	< 10
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	< 2
CHRYSENE	UG/L	< 2	< 2	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	< 4

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE = C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ53678 03/10/93		WELL M23A SJ58735 06/16/93		WELL M23A SJ63341 09/22/93		WELL M23A SJ67309 12/15/93	
ACID-BASE NEUTRAL EXTRACT									
2,4-DINITROTOLUENE	UG/L	<	3	<	3	<	3	<	3
2,6-DINITROTOLUENE	UG/L	<	5	<	5	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2	<	2	<	2
FLUORENE	UG/L	<	2	<	2	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1	<	1	<	1
PYRENE	UG/L	<	2	<	2	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3	<	3	<	3
2-CHLORDPHENOL	UG/L	<	8	<	8	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	3	<	3	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5	<	5	<	5
4-NITROPHENOL	UG/L	<	6	<	6	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16	<	16	<	16
PHENOL	UG/L	<	3	<	3	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2	<	2	<	2

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE = C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
F-CHECK NOTES TO USER

APPENDIX A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M13A SJ59179 08/28/93	WEFI M13A SJ63276 09/21/93	WEFI M13A SJ67475 12/20/93
ANIONS				
SULFATE	MG/L SO4	835	803	535
CHLORIDE	MG/L CL	60	59.7	59 A
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	832	747	529
MAGNESIUM-HARDNESS	MG/L CACO3	416	370	266
SODIUM	MG/L NA	85.3	79.9	79.0
POTASSIUM	MG/L K	4.9	5.2	5.2
IRON	MG/L FE	0.47	0.28	0.38
MANGANESE	MG/L MN	0.34	0.26	0.21
METALS				
ARSENIC	MG/L AS	0.002	0.002	0.002
BARIUM	MG/L BA	0.1	0.08	0.07
CADMIUM	MG/L CD	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	2.61
MERCURY	MG/L HG	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.2	< 0.02	< 0.02
ANTIMONY	MG/L SB	0.002	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ59182 06/28/93	WELL M13A SJ63280 09/21/93	WELL M13A SJ67478 12/20/93
FIELD PARAMETERS				
DEPTH TO WATER	FT	17.7	19.4	20.5
DEPTH TO BOTTOM	FT	30.6	30.6	30.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	15	17
FIELD WATER TEMPERATURE	DEG C	22	21	21.2
FIELD PH	PH	6.84	7.56	7.06
FIELD CONDUCTIVITY	UMHOS/CM	1930	1830	1573
FIELD DISSOLVED O2	MG/L	1.75	2.1	2.90
FIELD DISSOLVED CO2	MG/L	66.9	38.7	58.5
FIELD TOTAL ALKALINITY	MG/L	348	346	356
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1
GENERAL				
PH	PH	7.81	7.80	7.77
CONDUCTIVITY	UMHDS/CM	2450	2650	1690
SUSPENDED SOLIDS	MG/L	76	23	16
TOTAL DISSOLVED SOLIDS	MG/L	2272	2593	1456
TOTAL HARDNESS	MG/L CACO3	1530 A	1130 A	627 A
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	0.002	0.002	0.001
BORON	MG/L B	0.41	0.44	0.26
ANIONS				
NITRATE NITROGEN	MG/L N	0.53	1.01 B	0.75
SULFATE	MG/L SO4	1150	1330	770
CHLORIDE	MG/L CL	53	54.6	51
TOTAL ALKALINITY	MG/L CACO3	321	329	289
BICARBONATE ALKALINITY	MG/L CACO3	321	329	289
TOTAL PHOSPHATE	MG/L PO4	0.50	0.43 D	0.18
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.23	0.38	0.36
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	1010	744	547
MAGNESIUM-HARDNESS	MG/L CACO3	523	386	280
SODIUM	MG/L NA	89.2	81.6	76.1
POTASSIUM	MG/L K	6.3	7.0	5.2
IRON	MG/L FE	5.32	9.71	2.02
MANGANESE	MG/L MN	0.4	0.35	0.23
SOLUBLE IRON	MG/L FE	0.46		

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-VALUE <MDL, >IDL D-DUP & SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ59182 06/28/93	WELL M13A SJ63280 09/21/93	WELL M13A SJ67478 12/20/93
ORGANIC MATTER				
AMMONIA NITROGEN	MG/L N	< 0.1	1.6 B	0.1
TOTAL BOD	MG/L O	< 1	< 1	1
SOLUBLE BOD	MG/L O	1	< 1	1
TOTAL COD	MG/L O	12	8	9
SOLUBLE COD	MG/L O	2	4	7
TOTAL ORGANIC CARBON	MG/L C	2.4 B	4.2	3.5
OIL & GREASE	MG/L EXTRAC	< 1	< 1 B	< 0.91 B
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40	< 40	< 40
ACETIC ACID	MG/L	< 2.0	< 2.0	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0
METALS				
ARSENIC	MG/L AS	0.003	0.004	D.006
BARIUM	MG/L BA	0.15	0.16	0.08
CADMIUM	MG/L CD	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	< 0.02	<.0004
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	0.04	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	.0002	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001	0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.03	0.04	< 0.02
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002
PESTICIDES				
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-VALUE <MDL, >IDL D-DUP & SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ59182 06/28/93	WELL M13A SJ63280 09/21/93	WELL M13A SJ67478 12/20/93
PESTICIDES				
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	3.0 E
CHLORDFORM	UG/L	< 0.5	< 0.5	0.9
1,1,1-TRICHLDRDETHANE	UG/L	< 0.5	< 0.5	0.5
CARBON TETRACHLDRIDE	UG/L	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-VALUE <MDL, >IDL D-DUP & SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ59182 06/28/93		WELL M13A SJ63280 09/21/93		WELL M13A SJ67478 12/20/93	
VOLATILE ORGANIC COMPOUND							
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3		< 0.3		< 0.3	
BROMOMETHANE	UG/L	< 2.5		< 2.5		< 2.5	
CHLOROETHANE	UG/L	< 2.5		< 2.5		< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0		< 1.0		< 1.0	
CHLOROMETHANE	UG/L	< 2.5		< 2.5		< 2.5	
1,2-DICHLOROPROPANE	UG/L	< 0.5		< 0.5		< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5		< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 0.5		< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5		< 0.5		< 0.5	
ACROLEIN	UG/L	< 2.5	B	< 2.5		< 2.5	
ACRYLONITRILE	UG/L	< 1.0	B	< 1.0		< 1.0	
ACETONE	UG/L	< 5.0	B	< 5.0		< 5.0	
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3		< 0.3		< 0.3	
2-BUTANONE	UG/L	< 1.0	B	< 1.0		< 1.0	
ACID-BASE NEUTRAL EXTRACT							
ACENAPHTHENE	UG/L	< 2		< 2		< 2	
ACENAPHTHYLENE	UG/L	< 2		< 2		< 2	
ANTHRACENE	UG/L	< 1		< 1		< 1	
BENZIDINE	UG/L	< 62		< 62		< 62	
BENZO(A)ANTHRACENE	UG/L	< 2		< 2		< 2	
BENZO(A)PYRENE	UG/L	< 7		< 7		< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2		< 2		< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6		< 6		< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2		< 2		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3		< 3		< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5		< 5		< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3		< 3		< 3	
DIETHYLHEXYL PHTHALATE	UG/L	2	C	< 10		2	C
4-BROMOPHENYL PHENYLETHER	UG/L	< 9		< 9		< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3		< 3		< 3	
2-CHLORONAPHTHALENE	UG/L	< 1		< 1		< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2		< 2		< 2	
CHRYSENE	UG/L	< 2		< 2		< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6		< 6		< 6	
1,2-DICHLOROBENZENE	UG/L	< 10		< 10		< 10	
1,3-DICHLOROBENZENE	UG/L	< 10		< 10		< 10	
1,4-DICHLOROBENZENE	UG/L	< 2		< 2		< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100		< 100		< 100	
DIETHYL PHTHALATE	UG/L	< 2		< 2		< 2	
DIMETHYL PHTHALATE	UG/L	< 3		< 3		< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4		< 4		< 4	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-VALUE <MDL, >IDL D-DUP & SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ59182 06/28/93		WELL M13A SJ63280 09/21/93		WELL M13A SJ67478 12/20/93	
ACID-BASE NEUTRAL EXTRACT							
2,4-DINITROTOLUENE	UG/L	<	3	<	3	<	3
2,6-DINITROTOLUENE	UG/L	<	5	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2	<	2
FLUORENE	UG/L	<	2	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30	<	30
N-NITRDSODI-N-PROPYLAMINE	UG/L	<	2	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1	<	1
PYRENE	UG/L	<	2	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3	<	3
2-CHLOROPHENOL	UG/L	<	8	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	3	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5	<	5
4-NITROPHENOL	UG/L	<	8	<	8	<	8
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16	<	16
PHENOL	UG/L	<	3	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2	<	2

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-VALUE <MDL, >IDL D-DUP & SPIKE E-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M14A SJ59180 06/28/93	WEFI M14A SJ63277 09/21/93	WEFI M14A SJ67476 12/20/93
ANIONS				
SULFATE	MG/L SO4	144	138	167
CHLORIDE	MG/L CL	43	42.9	45
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	236	237	222
MAGNESIUM-HARDNESS	MG/L CACO3	154	155	159
SODIUM	MG/L NA	77.1	75.1	77.8
POTASSIUM	MG/L K	2.6	2.7	2.8
IRON	MG/L FE	0.14	0.15	0.16
MANGANESE	MG/L MN	0.16	0.15	0.14
METALS				
ARSENIC	MG/L AS	0.004	0.005	0.003
BARIUM	MG/L BA	0.05	0.05	0.05
CADMIUM	MG/L CD	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	<0.005	<0.005
ZINC	MG/L ZN	< 0.02	< 0.02	< 0.02
ANTIMONY	MG/L SB	0.002	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ59183 06/28/93		WELL M14A SJ63281 09/21/93		WELL M14A SJ67479 12/20/93	
FIELD PARAMETERS							
DEPTH TO WATER	FT	35.8		36.4		36.7	
DEPTH TO BOTTOM	FT	68.9		69.0		69.0	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	20		20		21	
FIELD WATER TEMPERATURE	DEG C	19		21		18.3	
FIELD PH	PH	6.96		7.00		7.10	
FIELD CONDUCTIVITY	UMHOS/CM	926		925		964	
FIELD DISSOLVED O2	MG/L	1.25		1.8		3.0	
FIELD DISSOLVED CO2	MG/L	20.1		44.0		63.5	
FIELD TOTAL ALKALINITY	MG/L	300		350		324	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1	
GENERAL							
PH	PH	8.03		7.72		7.88	
CONDUCTIVITY	UMHOS/CM	964		983	C	984	
SUSPENDED SOLIDS	MG/L	12		7		2	
TOTAL DISSOLVED SOLIDS	MG/L	639		660		578	
TOTAL HARDNESS	MG/L CACO3	394	A	393	A	376	A
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01	
PHENOLS	MG/L C6H5OH	0.001		0.001		0.001	
BORON	MG/L B	0.67		0.55		0.46	
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.01		0.04		< 0.01	
SULFATE	MG/L SO4	162		153		151	D
CHLORIDE	MG/L CL	44		43.5		45	
TOTAL ALKALINITY	MG/L CACO3	302		315	D	308	
BICARBONATE ALKALINITY	MG/L CACO3	302		315		308	
TOTAL PHOSPHATE	MG/L PO4	0.54		0.68		0.47	D
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.60		0.60		0.63	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	238		235		219	B
MAGNESIUM-HARDNESS	MG/L CACO3	156		158		157	B
SODIUM	MG/L NA	74.7		74.2		76.5	B
POTASSIUM	MG/L K	2.8		3.0		2.8	B
IRON	MG/L FE	0.96		0.50		0.46	B
MANGANESE	MG/L MN	0.16		0.14		0.14	B
SOLUBLE IRON	MG/L FE	0.06					

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AVERAGE OF DUPS D-DUP & SPIKE E-SAMPLE LOST
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ59183 06/28/93		WELL M14A SJ63281 09/21/93		WELL M14A SJ67479 12/20/93	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1		0.1	B
TOTAL BOD	MG/L O	< 1		< 1		1	
SOLUBLE BOD	MG/L O	1		< 1		< 1	
TOTAL COD	MG/L O	< 2		2		2	
SOLUBLE COD	MG/L O	< 2		< 2		2	
TOTAL ORGANIC CARBON	MG/L C	1.1	B	1.0		0.58	
OIL & GREASE	MG/L EXTRAC	< 1		< 1		< 0.91	
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40		< 40		< 40	
ACETIC ACID	MG/L	< 2.0	B	< 2.0			E
PROPIONIC ACID	MG/L	< 2.0	B	< 2.0			E
ISOBUTYRIC ACID	MG/L	< 2.0	B	< 2.0			E
BUTYRIC ACID	MG/L	< 2.0	B	< 2.0			E
ISOVALERIC ACID	MG/L	< 2.0	B	< 2.0			E
VALERIC ACID	MG/L	< 2.0	B	< 2.0			E
METALS							
ARSENIC	MG/L AS	0.004		0.005		0.004	
BARIUM	MG/L BA	0.05		0.05		0.05	B
CADMIUM	MG/L CD	< 0.01		< 0.01		<0.005	B
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.02		< 0.02	B
HEXAVALENT CHROMIUM	MG/L CR	< 0.02		< 0.02		<.0004	
COBALT	MG/L CO	< 0.04		< 0.04		< 0.04	B
COPPER	MG/L CU	< 0.02		< 0.02		< 0.02	B
LEAD	MG/L PB	< 0.04		< 0.04		< 0.04	B
MERCURY	MG/L HG	<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.03		< 0.03		< 0.03	B
SELENIUM	MG/L SE	<0.001		<0.001		<0.001	
SILVER	MG/L AG	<0.005		<0.005		<0.005	B
ZINC	MG/L ZN	< 0.02		< 0.02		< 0.02	B
ANTIMONY	MG/L SB	<0.001		<0.001		<0.001	
BERYLLIUM	MG/L BE	<.0005		<.0005		<.0005	B
THALLIUM	MG/L TL	<0.002		<0.002		<0.002	B
PESTICIDES							
PP'-DDE	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDD	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDT	UG/L	< 0.01		< 0.01		< 0.01	
ALPHA-BHC	UG/L	< 0.01		< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01		< 0.01		< 0.01	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AVERAGE OF DUPS D-DUP & SPIKE E-SAMPLE LOST
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ59183 06/28/93	WELL M14A SJ63281 09/21/93	WELL M14A SJ67479 12/20/93							
PESTICIDES											
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01							
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01							
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01							
TOXAPHENE	UG/L	< 5	< 5	< 3							
METHOXYCLOR	UG/L	< 2	< 2	< 2							
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1							
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01							
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01							
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01							
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1							
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1							
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	E							
CHLOROFORM	UG/L	< 0.5	< 0.5	E							
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	E							
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	E							
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	E							
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	E							
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	E							
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	E							
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	E							
BROMOFORM	UG/L	< 0.5	< 0.5	E							
CHLOROBENZENE	UG/L	< 0.5	< 0.5	E							
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	E							
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	E							
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	E							
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	E							
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	E							
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	E							
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	E							
BENZENE	UG/L	< 0.3	< 0.3	E							
TOLUENE	UG/L	< 0.3	< 0.3	E							
ETHYL BENZENE	UG/L	< 0.3	< 0.3	E							

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AVERAGE OF DUPS D-DUP & SPIKE E-SAMPLE LOST
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ59183 06/28/93		WELL M14A SJ63281 09/21/93		WELL M14A SJ67479 12/20/93		
VOLATILE ORGANIC COMPOUND								
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	0.3	<	0.3			E
BROMOMETHANE	UG/L	<	2.5	<	2.5			E
CHLOROETHANE	UG/L	<	2.5	<	2.5			E
2-CHLOROETHYLVINYLETHER	UG/L	<	1.0	<	1.0			E
CHLOROMETHANE	UG/L	<	2.5	<	2.5			E
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	0.5			E
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5			E
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5			E
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5			E
ACROLEIN	UG/L	<	2.5	<	2.5 B			E
ACRYLONITRILE	UG/L	<	1.0	<	1.0 B			E
ACETONE	UG/L	<	5.0	<	5.0 B			E
CIS-1,2-DICHLOROETHYLENE	UG/L	<	0.3	<	0.3			E
2-BUTANONE	UG/L	<	1.0	<	1.0 B			E
ACID-BASE NEUTRAL EXTRACT								
ACENAPHTHENE	UG/L	<	2	<	2	<	2	
ACENAPHTHYLENE	UG/L	<	2	<	2	<	2	
ANTHRACENE	UG/L	<	1	<	1	<	1	
BENZIDINE	UG/L	<	62	<	62	<	62	
BENZO(A)ANTHRACENE	UG/L	<	2	<	2	<	2	
BENZO(A)PYRENE	UG/L	<	7	<	7	<	7	
BENZO(B)FLUORANTHENE	UG/L	<	2	<	2	<	2	
BENZO(G,H,I,)PERYLENE	UG/L	<	6	<	6	<	6	
BENZO(K)FLUORANTHENE	UG/L	<	2	<	2	<	2	
BIS(2-CL-ETHOXY)METHANE	UG/L	<	3	<	3	<	3	
BIS(2-CHLOROETHYL)ETHER	UG/L	<	5	<	5	<	5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	3	<	3	<	3	
DIETHYLHEXYL PHTHALATE	UG/L	<	10	<	10		1	F
4-BROMOPHENYL PHENYLETHER	UG/L	<	9	<	9	<	9	
BUTYLBENZYL PHTHALATE	UG/L	<	3	<	3	<	3	
2-CHLORONAPHTHALENE	UG/L	<	1	<	1	<	1	
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2	<	2	<	2	
CHRYSENE	UG/L	<	1	<	2	<	2	
DIBENZO(A,H)ANTHRACENE	UG/L	<	6	<	6	<	6	
1,2-DICHLOROBENZENE	UG/L	<	10	<	10	<	1D	
1,3-DICHLOROBENZENE	UG/L	<	10	<	10	<	10	
1,4-DICHLOROBENZENE	UG/L	<	2	<	2	<	2	
3,3'-DICHLOROBENZIDINE	UG/L	<	100	<	100	<	10D	
DIETHYL PHTHALATE	UG/L	<	2	<	2	<	2	
DIMETHYL PHTHALATE	UG/L	<	3	<	3	<	3	
DI-N-BUTYL PHTHALATE	UG/L	<	4	<	4	<	4	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AVERAGE OF DUPS D-DUP & SPIKE E-SAMPLE LOST
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ59183 08/28/93	WELL M14A SJ63281 09/21/93	WELL M14A SJ67479 12/20/93
ACID-BASE NEUTRAL EXTRACT				
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1
FLUORANTHENE	UG/L	< 2	< 2	< 2
FLUORENE	UG/L	< 2	< 2	< 2
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6
ISOPHORONE	UG/L	< 3	< 3	< 3
NAPHTHALENE	UG/L	< 2	< 2	< 2
NITROBENZENE	UG/L	< 2	< 2	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2
PHENANTHRENE	UG/L	< 1	< 1	< 1
PYRENE	UG/L	< 2	< 2	< 2
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17
2-NITROPHENOL	UG/L	< 5	< 5	< 5
4-NITROPHENOL	UG/L	< 6	< 6	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16
PHENOL	UG/L	< 3	< 3	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 3	< 2	< 2

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AVERAGE OF DUPS D-DUP & SPIKE E-SAMPLE LOST
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M15A SJ67180 12/13/93
ANIONS		
SULFATE	MG/L SO4	1010
CHLORIDE	MG/L CL	220
CATIONS		
CALCIUM-HARDNESS	MG/L CACO3	889
MAGNESIUM-HARDNESS	MG/L CACO3	729
SODIUM	MG/L NA	192
POTASSIUM	MG/L K	7.9
IRON	MG/L FE	2.32
MANGANESE	MG/L MN	1.28
METALS		
ARSENIC	MG/L AS	0.004
BARIUM	MG/L BA	0.07
CADMIUM	MG/L CD	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02
COBALT	MG/L CO	< 0.04
COPPER	MG/L CU	< 0.02
LEAD	MG/L PB	< 0.04
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	0.03
SELENIUM	MG/L SE	<0.001
SILVER	MG/L AG	<0.005
ZINC	MG/L ZN	< 0.02
ANTIMONY	MG/L SB	<0.001
BERYLLIUM	MG/L BE	<.0005
THALLIUM	MG/L TL	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M15A SJ67184 12/13/93	
FIELD PARAMETERS			
DEPTH TO WATER	FT	26.8	
DEPTH TO BOTTOM	FT	57.25	
PERCENT METHANE IN GAS	%CH4	< 0.1	
PERCENT OXYGEN IN GAS	%O2	14	
FIELD WATER TEMPERATURE	DEG C	16.6	
FIELD PH	PH	6.60	
FIELD CONDUCTIVITY	UMHOS/CM	3090	
FIELD DISSOLVED CO2	MG/L	121.4	
FIELD TOTAL ALKALINITY	MG/L	670	
FIELD HYDROGEN SULFIDE	PPM	< 0.1	
GENERAL			
PH	PH	7.50	A
CONDUCTIVITY	UMHOS/CM	3070	A
SUSPENDED SOLIDS	MG/L	14	
TOTAL DISSOLVED SOLIDS	MG/L	2428	B
TOTAL HARDNESS	MG/L CACO3	1653	
TOTAL CYANIDE	MG/L CN	< 0.01	
PHENOLS	MG/L C6H5OH	0.003	
BORON	MG/L B	0.88	
ANIONS			
NITRATE NITROGEN	MG/L N	0.03	
SULFATE	MG/L SO4	955	
CHLORIDE	MG/L CL	214	B
TOTAL ALKALINITY	MG/L CACO3	651	
BICARBONATE ALKALINITY	MG/L CACO3	651	
TOTAL PHOSPHATE	MG/L PO4	0.77	B
TOTAL SULFIDE	MG/L S	< 0.1	A
FLUORIDE	MG/L F	0.61	
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	916	C
MAGNESIUM-HARDNESS	MG/L CACO3	737	C
SODIUM	MG/L NA	190	C
POTASSIUM	MG/L K	7.9	C
IRON	MG/L FE	2.46	C
MANGANESE	MG/L MN	1.26	C

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M15A SJ67184 12/13/93	
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	0.7	
TOTAL BOD	MG/L O	1	
SOLUBLE BOD	MG/L O	1	A
TOTAL COD	MG/L O	26	
SOLUBLE COD	MG/L O	25	
TOTAL ORGANIC CARBON	MG/L C	7.3	
OIL & GREASE	MG/L EXTRAC	< 1	
TOTAL ORGANIC HALOGEN(TOX	UG/L	65	
ACETIC ACID	MG/L	< 2.5	
PROPIONIC ACID	MG/L	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0	
BUTYRIC ACID	MG/L	< 2.0	
ISOVALERIC ACID	MG/L	< 2.0	
VALERIC ACID	MG/L	< 2.0	
METALS			
ARSENIC	MG/L AS	0.004	
BARIUM	MG/L BA	0.07	C
CADMIUM	MG/L CD	<0.005	C
TOTAL CHROMIUM	MG/L CR	< 0.02	C
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	C
COBALT	MG/L CO	< 0.04	C
COPPER	MG/L CU	< 0.02	C
LEAD	MG/L PB	< 0.04	C
MERCURY	MG/L HG	<.0001	
NICKEL	MG/L NI	< 0.03	C
SELENIUM	MG/L SE	<0.001	
SILVER	MG/L AG	<0.005	C
ZINC	MG/L ZN	< 0.02	C
ANTIMONY	MG/L SB	<0.001	
BERYLLIUM	MG/L BE	<.0005	C
THALLIUM	MG/L TL	<0.002	C
PESTICIDES			
PP'-DDE	UG/L	< 0.01	
PP'-DDD	UG/L	< 0.01	
PP'-DDT	UG/L	< 0.01	
ALPHA-BHC	UG/L	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	
HEPTACHLOR	UG/L	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M15A SJ67184 12/13/93
PESTICIDES		
ALDRIN	UG/L	< 0.01
DIELDRIN	UG/L	< 0.01
ENDRIN	UG/L	< 0.01
TOXAPHENE	UG/L	< 3
METHOXYCLOR	UG/L	< 2
AROCLOR 1242	UG/L	< 0.1
AROCLOR 1254	UG/L	< 0.1
BETA-BHC	UG/L	< 0.01
DELTA-BHC	UG/L	< 0.01
ENDOSULFAN I	UG/L	< 0.01
ENDOSULFAN II	UG/L	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01
AROCLOR 1016	UG/L	< 0.1
AROCLOR 1221	UG/L	< 0.1
AROCLOR 1232	UG/L	< 0.1
AROCLOR 1248	UG/L	< 0.1
AROCLOR 1260	UG/L	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1
VOLATILE ORGANIC COMPOUND		
METHYLENE CHLORIDE	UG/L	< 1.0
CHLOROFORM	UG/L	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3
TRICHLOROETHYLENE	UG/L	0.9
TETRACHLOROETHYLENE	UG/L	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5
BROMOFORM	UG/L	< 0.5
CHLOROBENZENE	UG/L	< 0.5
VINYL CHLORIDE	UG/L	0.8
O-DICHLOROBENZENE	UG/L	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5
P-DICHLOROBENZENE	UG/L	1.0
1,1-DICHLOROETHANE	UG/L	0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3
1,2-DICHLOROETHANE	UG/L	1.8
BENZENE	UG/L	< 0.3
TOLUENE	UG/L	< 0.3
ETHYL BENZENE	UG/L	< 0.3

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M15A SJ67184 12/13/93	
VOLATILE ORGANIC COMPOUND			
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	
BRDMOMETHANE	UG/L	< 2.5	
CHLOROETHANE	UG/L	< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	
1,2-DICHLOROPROPANE	UG/L	< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	
ACROLEIN	UG/L	< 2.5	
ACRYLONITRILE	UG/L	< 1.0	
ACETONE	UG/L	< 5.0	
CIS-1,2-DICHLOROETHYLENE	UG/L	4.7	
2-BUTANONE	UG/L	< 1.0	
ACID-BASE NEUTRAL EXTRACT			
ACENAPHTHENE	UG/L	< 2	
ACENAPHTHYLENE	UG/L	< 2	
ANTHRACENE	UG/L	< 1	
BENZIDINE	UG/L	< 62	
BENZO(A)ANTHRACENE	UG/L	< 2	
BENZO(A)PYRENE	UG/L	< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2	
BENZO(G.H.I.)PERYLENE	UG/L	< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	2	D
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	
CHRYSENE	UG/L	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	
1,4-DICHLOROBENZENE	UG/L	< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100	
DIETHYL PHTHALATE	UG/L	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M15A SJ67184 12/13/93
ACID-BASE NEUTRAL EXTRACT		
2,4-DINITROTOLUENE	UG/L	< 3
2,6-DINITROTOLUENE	UG/L	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1
FLUORANTHENE	UG/L	< 2
FLUORENE	UG/L	< 2
HEXACHLOROBENZENE	UG/L	< 1
HEXACHLOROBUTADIENE	UG/L	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100
HEXACHLOROETHANE	UG/L	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6
ISOPHORONE	UG/L	< 3
NAPHTHALENE	UG/L	< 2
NITROBENZENE	UG/L	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2
PHENANTHRENE	UG/L	< 1
PYRENE	UG/L	< 2
2,3,7,8-TCDD	UG/L	< 3
2-CHLOROPHENOL	UG/L	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3
2,4-DICHLOROPHENOL	UG/L	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3
2,4-DINITROPHENOL	UG/L	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17
2-NITROPHENOL	UG/L	< 5
4-NITROPHENOL	UG/L	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2
PENTACHLOROPHENOL	UG/L	< 16
PHENOL	UG/L	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 2

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M16A SJ59181 06/28/93	WEFI M16A SJ63278 09/21/93	WEFI M16A SJ67477 12/20/93
ANIONS				
SULFATE	MG/L SO4	163 A	159	198
CHLORIDE	MG/L CL	76	56.2	74
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	517	594	464
MAGNESIUM-HARDNESS	MG/L CACO3	199	234	194
SODIUM	MG/L NA	66.2	62.5	77.0
POTASSIUM	MG/L K	3.7	4.3	4.2
IRON	MG/L FE	0.01	0.02	< 0.02
MANGANESE	MG/L MN	< 0.01	< 0.01	0.01
METALS				
ARSENIC	MG/L AS	0.002	0.003	0.002
BARIUM	MG/L BA	0.07	0.08	0.07
CADMIUM	MG/L CO	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
SELENIUM	MG/L SE	0.015	0.017	0.011
SILVER	MG/L AG	<0.005	<0.005	<0.005
ZINC	MG/L ZN	< 0.02	< 0.02	< 0.02
ANTIMONY	MG/L SB	0.002	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-DUP & SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ59184 06/28/93		WELL M16A SJ63282 09/21/93		WELL M16A SJ67480 12/20/93	
FIELD PARAMETERS							
DEPTH TO WATER	FT	37.0		41.0		38.5	
DEPTH TO BOTTOM	FT	84.7		84.8		84.8	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	10		21		21	
FIELD WATER TEMPERATURE	DEG C	22		21		18.3	
FIELD PH	PH	6.70		6.92		7.69	
FIELD CONDUCTIVITY	UMHOS/CM	1375		1520		1388	
FIELD DISSOLVED O2	MG/L	5.2		2.4		3.60	
FIELD DISSOLVED CO2	MG/L	85.3		123.2		70.2	
FIELD TOTAL ALKALINITY	MG/L	462		600		530	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1		< 0.1	
GENERAL							
PH	PH	7.76		7.44		7.75	
CONDUCTIVITY	UMHOS/CM	1425	A	1610		1520	A
SUSPENDED SOLIDS	MG/L	6	A	2		905	
TOTAL DISSOLVED SOLIDS	MG/L	969		1115		972	
TOTAL HARDNESS	MG/L CACO3	687	B	827	B	730	B
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		< 0.01	
PHENOLS	MG/L C6H5OH	0.003		0.004		0.003	
BORON	MG/L B	0.45		0.33		0.35	C
ANIONS							
NITRATE NITROGEN	MG/L N	16.2		20.5		20.2	
SULFATE	MG/L SO4	167		155		183	
CHLORIDE	MG/L CL	77		56.0		74	
TOTAL ALKALINITY	MG/L CACO3	442		582		268	C
BICARBONATE ALKALINITY	MG/L CACO3	442		582		268	B
TOTAL PHOSPHATE	MG/L PO4	0.14	C	0.28		1.90	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.48		1.35		0.31	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	492		594		487	
MAGNESIUM-HARDNESS	MG/L CACO3	195		233		244	
SODIUM	MG/L NA	64.6		63.6		75.8	
POTASSIUM	MG/L K	3.7		4.3		10.4	
IRON	MG/L FE	0.08		0.15		35.7	
MANGANESE	MG/L MN	< 0.01		< 0.01		0.96	
SOLUBLE IRON	MG/L FE	< 0.02					

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ59184 06/28/93		WELL M16A SJ63282 09/21/93		WELL M16A SJ67480 12/20/93	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1		0.1		0.2	
TOTAL BOD	MG/L O	< 1		< 1		1	
SOLUBLE BOD	MG/L O	< 1	A	< 1		1	A
TOTAL COD	MG/L O	22		3		7	C
SOLUBLE COD	MG/L O	21		4	C	4	
TOTAL ORGANIC CARBON	MG/L C	1.0	D	0.97		2.8	
OIL & GREASE	MG/L EXTRAC	< 1		< 1		< 0.91	
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 40		< 40		< 40	
ACETIC ACID	MG/L	2.7		< 2.0	D	< 2.5	
PROPIONIC ACID	MG/L	< 2.0		< 2.0	D	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0		< 2.0	D	< 2.0	
BUTYRIC ACID	MG/L	< 2.0		< 2.0	D	< 2.0	
ISOVALERIC ACID	MG/L	< 2.0		< 2.0	D	< 2.0	
VALERIC ACID	MG/L	< 2.0		< 2.0	D	< 2.0	
METALS							
ARSENIC	MG/L AS	0.003		0.004		0.029	
BARIUM	MG/L BA	0.07		0.08		0.44	
CADMIUM	MG/L CD	< 0.01		< 0.01		<0.005	
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.02		0.36	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	D	< 0.02		.0086	D
COBALT	MG/L CO	< 0.04		< 0.04		< 0.04	
COPPER	MG/L CU	< 0.02		< 0.02		0.04	
LEAD	MG/L PB	< 0.04		< 0.04		< 0.04	
MERCURY	MG/L HG	<.0001		<.0001		.0005	D
NICKEL	MG/L NI	< 0.03		< 0.03		0.14	
SELENIUM	MG/L SE	0.015		0.016		0.014	
SILVER	MG/L AG	<0.005		<0.005		<0.005	
ZINC	MG/L ZN	< 0.02		< 0.02		0.10	
ANTIMONY	MG/L SB	<0.001		<0.001		0.002	
BERYLLIUM	MG/L BE	<.0005		<.0005		.0008	
THALLIUM	MG/L TL	<0.002		<0.002		<0.002	
PESTICIDES							
PP'-DDE	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDD	UG/L	< 0.01		< 0.01		< 0.01	
PP'-DDT	UG/L	< 0.01		< 0.01		< 0.01	
ALPHA-BHC	UG/L	< 0.01		< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR	UG/L	< 0.01		< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01		< 0.01		< 0.01	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ59184 06/28/93	WELL M16A SJ63282 09/21/93	WELL M16A SJ67480 12/20/93
PESTICIDES				
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 5	< 5	< 3
METHOXYCLOR	UG/L	< 2	< 2	< 2
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1
VOLATILE ORGANIC COMPOUND				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	3.5 E
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	0.9	1.4
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	0.5 D	1.2
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3 D	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	0.8	1.9
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5 D	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	0.9
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3 D	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3 D	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ59184 06/28/93	WELL M16A SJ63282 09/21/93	WELL M16A SJ67480 12/20/93	
VOLATILE ORGANIC COMPOUND					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	
ACID-BASE NEUTRAL EXTRACT					
ACENAPHTHENE	UG/L	< 2	< 2	< 2	
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	
ANTHRACENE	UG/L	< 1	< 1	< 1	
BENZIOINE	UG/L	< 62	< 62	< 62	
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	2	F
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	
CHRYSENE	UG/L	< 2	< 2	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ59184 06/28/93	WELL M16A SJ63282 09/21/93	WELL M16A SJ67480 12/20/93
ACID-BASE NEUTRAL EXTRACT				
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1
FLUORANTHENE	UG/L	< 2	< 2	< 2
FLUORENE	UG/L	< 2	< 2	< 2
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6
ISOPHORONE	UG/L	< 3	< 3	< 3
NAPHTHALENE	UG/L	< 2	< 2	< 2
NITROBENZENE	UG/L	< 2	< 2	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2
PHENANTHRENE	UG/L	< 1	< 1	< 1
PYRENE	UG/L	< 2	< 2	< 2
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17
2-NITROPHENOL	UG/L	< 5	< 5	< 5
4-NITROPHENOL	UG/L	< 6	< 6	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16
PHENOL	UG/L	< 3	< 3	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-VALUE <MDL, >IDL

APPENDIX A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEM

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI LCRS SJ52561 02/17/93	EFFI LCRS SJ53318 03/03/93	EFFI LCRS SJ54556 03/26/93	EFFI LCRS SJ57106 05/14/93	EFFI LCRS SJ59148 06/25/93	EFFI LCRS SJ60071 07/16/93	EFFI LCRS SJ61863 08/20/93	EFFI LCRS SJ63088 09/16/93	EFFI LCRS SJ64467 10/15/93	EFFI LCRS SJ66415 11/24/93
ANIONS											
SULFATE	MG/L SO4	2420 A	4700	2720	1980	2720	2100	2890	2020	1960	2050
CHLORIDE	MG/L CL	462	466	366	558	537	557 A	562	596	605	605
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3	1080	1330	1120	1090 B	1180	1260	1380	1250	914	1080
MAGNESIUM-HARDNESS	MG/L CACO3	1650	3340	2070	1350 B	2030	1510	1810	1420	1190	1230
SODIUM	MG/L NA	502	772	513	463 B	544	500	755	608	528	602
POTASSIUM	MG/L K	19.1	28.2	19.4	18.3 B	25.9	27.8	21.5	21.5	18.4	19.4
IRON	MG/L FE	0.02	0.03	0.03	0.03 B	< 0.02	0.44	0.42	1.12	0.06	8.94
MANGANESE	MG/L MN	2.65	4.73	2.53	0.31 B	0.83	3.85	3.75	2.92	2.47	9.82
METALS											
ARSENIC	MG/L AS	0.006	0.008	0.004	0.007	0.011	0.027	0.012	0.022	0.012	0.073
BARIUM	MG/L BA	0.11	0.07	0.09	0.07 B	0.09	0.12	0.11	0.14	0.10	0.07
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	< 0.01 B	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02 B	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04	< 0.04	< 0.04 B	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
COPPER	MG/L CU	0.03	0.09	0.09	0.04 B	0.11	< 0.02	0.03	< 0.02	0.04	< 0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04 B	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	0.04	0.06	< 0.03	< 0.03 B	0.03	< 0.03	0.04	< 0.03	< 0.03	0.04
SELENIUM	MG/L SE	0.001	0.002	0.001	<0.001 C	0.001	0.001	0.001	0.001	< 0.01	0.001
SILVER	MG/L AG	0.01	0.015	0.01	0.009 B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	MG/L ZN	0.09	0.10	0.58	< 0.02 B	0.05	0.07	0.14	< 0.02	0.04	< 0.02
ANTIMONY	MG/L SB	0.002	0.001	0.001	0.002	0.004	0.001	<0.001	<0.001	<0.003	<0.001
BERYLLIUM	MG/L BE	< 0.01	< 0.01	< 0.01	< 0.01 B	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.050	<0.050	<0.050	<0.050 B	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI LCRS SJ67410 12/17/93	EFFI LCRS SJ67717 12/29/93
ANIONS			
SULFATE	MG/L SO4	1890	2250
CHLORIDE	MG/L CL	616	429
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	876	1700
MAGNESIUM-HARDNESS	MG/L CACO3	1100	1360
SODIUM	MG/L NA	641	205
POTASSIUM	MG/L K	18.2	16.9
IRON	MG/L FE	0.10	0.05
MANGANESE	MG/L MN	3.41	1.16
METALS			
ARSENIC	MG/L AS	0.008	0.002
BARIUM	MG/L BA	0.11	0.04
CADMIUM	MG/L CD	<0.005	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02
COBALT	MG/L CO	< 0.04	< 0.04
COPPER	MG/L CU	0.03	0.03
LEAD	MG/L PB	< 0.04	< 0.04
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	0.03
SELENIUM	MG/L SE	<0.001	0.013
SILVER	MG/L AG	<0.005	<0.005
ZINC	MG/L ZN	0.09	< 0.02
ANTIMONY	MG/L SB	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ50297 01/07/93	EFFL LCRS SJ52563 02/17/93	EFFL LCRS SJ53323 03/03/93	EFFL LCRS SJ54562 03/26/93	EFFL LCRS SJ57107 05/14/93	EFFL LCRS SJ59150 06/25/93	EFFL LCRS SJ60076 07/16/93	EFFL LCRS SJ61864 08/20/93	EFFL LCRS SJ64469 10/15/93	EFFL LCRS SJ66416 11/24/93
GENERAL											
PH	PH	7.14	8.18	8.03	7.74	7.94	8.00	7.61	7.66 A	7.57	8.07
CONDUCTIVITY	UMHOS/CM	583 A	5450	8280	5770	5170	6225 A	5755 A	6715 A	5755 A	5460 A
SUSPENDED SOLIDS	MG/L	22	9	8 A	33	11	40	32	16	3	28 A
TOTAL DISSOLVED SOLIDS	MG/L	356	4954 B	8463	5600	4478	5733 B	5009	6401	4755	4478 B
TOTAL HARDNESS	MG/L CACO3	206 C	2730 C	4650 C	3210 C	2480 C	2880 C	2860 C	3030 C	2510 C	2290 C
TOTAL CYANIDE	MG/L CN	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	0.006	0.004	0.001	0.006	0.002	0.004	0.006	0.010	0.005	0.005
BORON	MG/L B	0.35	1.78	2.10	1.95	2.30	2.29	2.05	2.45	2.37	2.13
ANIONS											
NITRATE NITROGEN	MG/L N	0.33 B	10.1	16.4 B	5.69	0.84	6.55 D	0.03	0.25	0.96	0.09
SULFATE	MG/L SO4	80.7	2100	4700	2880	1960	2850 A	2220 B	2850	1960	1980
CHLORIDE	MG/L CL	52.2	468	466 A	371	545 A	538 A	556	562	607	608 B
TOTAL ALKALINITY	MG/L CACO3	124	549	615	630	596	695	880	886	787	677
BICARBONATE ALKALINITY	MG/L CACO3	124	549	615	630	596	695	880	886	787	677
TOTAL PHOSPHATE	MG/L PO4	0.16	0.28	0.28	0.46	0.20	0.30	0.48	0.35 B	0.94 B	1.84
TOTAL SULFIDE	MG/L S	< 0.1 A	< 0.1 A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.09	0.40	0.70	0.43	0.31	0.38	0.36	0.65	0.33	0.42
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3	140	1100 D	1330	1140 D	1110	1070 D	1300	1330	1020	1050 D
MAGNESIUM-HARDNESS	MG/L CACO3	65.8	1630 D	3320	2070 D	1370	1810 D	1560	1700	1490	1240 D
SODIUM	MG/L NA	29.4	493 D	774	516 D	476	489 D	504	677	640	612 D
POTASSIUM	MG/L K	3.6	19.1 D	13.9	19.1 D	17.7	25.9 D	28.2	21.5	19.1	19.5 D
IRON	MG/L FE	1.62	0.84 D	1.64	1.63 D	1.48	0.56 D	4.56	3.66	0.73	9.32 D
MANGANESE	MG/L MN	0.79	2.62 D	4.66	2.57 D	0.80	0.99 D	3.87	3.95	2.31	10.0 D
SOLUBLE IRON	MG/L FE	< 0.1	0.05 D	< 0.1	< 0.1 D	0.25	0.04 D	0.58			
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N	< 0.1	1.3	1.8	0.5	0.5	8.4	15.1	0.6	13.9	2.8
TOTAL BOD	MG/L O	2	3	3	5	4	5	8	6	3	4
SOLUBLE BOD	MG/L O	2	2	2 A	14	2 A	2 A	3	1	< 1	1
TOTAL COD	MG/L O	15	133	654	139	105	142	153	222	90	115
SOLUBLE COD	MG/L O	9	133	639 B	130	100	133	98	205	88	99
TOTAL ORGANIC CARBON	MG/L C	4.4	47	94	51 D	38	45	52	77	31	36
OIL & GREASE	MG/L EXTRAC	< 1	< 1 D	1.7	1.1	< 1	< 1 D	1.2	1.1	1.3	< 1 G
TOTAL ORGANIC HALOGEN(TOX	UG/L	63	180	180	220	210	210	230	200	150	100
ACETIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 D	< 2.0	< 2.0	< 2.5	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 D	< 2.0	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 D	< 2.0	< 2.0	< 2.0	< 2.0

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-INTERFERENCE G-CHECK NOTES TO USER H-BLANK CONTAMINANT I-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ50297 01/07/93	EFFL LCRS SJ52563 02/17/93	EFFL LCRS SJ53323 03/03/93	EFFL LCRS SJ54562 03/26/93	EFFL LCRS SJ57107 05/14/93	EFFL LCRS SJ59150 06/25/93	EFFL LCRS SJ60076 07/16/93	EFFL LCRS SJ61864 08/20/93	EFFL LCRS SJ64469 10/15/93	EFFL LCRS SJ66416 11/24/93
ORGANIC MATTER											
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 D	< 2.0	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 D	< 2.0	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 D	< 2.0	< 2.0	< 2.0	< 2.0
METALS											
ARSENIC	MG/L AS	0.003	0.010	0.015	0.006	0.009	0.011	0.048	0.028	0.013	0.089
BARIUM	MG/L BA	0.03	0.11 D	0.07	0.1 D	0.15	0.09 D	0.12	0.12	0.1	0.08 D
CADMIUM	MG/L CD	< 0.01	< 0.01 D	< 0.01	< 0.01 D	< 0.01	< 0.01 D	< 0.01	< 0.01	< 0.01	< 0.01 D
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02 D	< 0.02	< 0.02 D	< 0.02	< 0.02 D	< 0.02	< 0.02	< 0.02	< 0.02 D
HEXAVALENT CHROMIUM	MG/L CR	< 0.02 D	< 0.02	< 0.04	< 0.04 D	< 0.02 D	< 0.02	< 0.02 D	< 0.02	< 0.04	< 0.02 D
COBALT	MG/L CO	< 0.04	< 0.04 D	< 0.04	< 0.04 D	< 0.04	< 0.04 D	< 0.02	< 0.04	< 0.04	< 0.04 D
COPPER	MG/L CU	0.02	0.04 D	0.11	0.12 D	0.11	0.13 D	0.05	0.21	0.06	0.06 D
LEAD	MG/L PB	< 0.04	< 0.04 D	< 0.04	< 0.04 D	< 0.04	< 0.04 D	< 0.04	0.06	< 0.04	< 0.04 D
MERCURY	MG/L HG	.0001	<.0001	.0002	<.0001	<.0001	<.0001 D	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	0.04 D	0.06	0.04 D	0.04	0.04 D	0.03	0.05	< 0.03	0.03 D
SELENIUM	MG/L SE	<0.001 E	0.001	0.002	0.001	<0.001 E	0.001	0.001	0.001	< 0.01	0.002
SILVER	MG/L AG	<0.005	0.01 D	0.014	0.009 D	0.009	<0.005 D	<0.005	<0.005	<0.005	<0.005 D
ZINC	MG/L ZN	0.95	0.23 D	0.07	0.67 D	0.22	0.05 D	0.08	0.24	< 0.02	0.04 D
ANTIMONY	MG/L SB	<0.001	<0.001 E	0.001	<0.001	<0.001 E	0.001	<0.001	<0.001	<0.003	<0.001
BERYLLIUM	MG/L BE	< 0.01	< 0.01 D	< 0.01	< 0.01 D	< 0.01	<.0005 D	<.0005	<.0005	<.0005	<.0005 D
THALLIUM	MG/L TL	<0.050	<0.050 D	<0.050	<0.050 D	<0.050	<0.002 D	<0.002	<0.002	<0.002	<0.002 D
PESTICIDES											
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
TOXAPHENE	UG/L	< 5	< 5	< 5			< 5				
METHOXYCLOR	UG/L	< 2	< 2	< 2			< 2				
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
AROCLOR 1254	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ50297 01/07/93	EFFL LCRS SJ52563 02/17/93	EFFL LCRS SJ53323 03/03/93	EFFL LCRS SJ54562 03/26/93	EFFL LCRS SJ57107 05/14/93	EFFL LCRS SJ59150 06/25/93	EFFL LCRS SJ60076 07/16/93	EFFL LCRS SJ61864 08/20/93	EFFL LCRS SJ64469 10/15/93	EFFL LCRS SJ66416 11/24/93
PESTICIDES											
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01			< 0.01				
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.1	< 0.1			< 0.1				
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	63	< 2.0	< 2.0	50	< 2.5	< 1.0	22	3.0	8.8	1.2 H
CHLOROFORM	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	5.5	< 0.5	< 0.5	4.3	< 0.5	< 0.3	3.5	1.4	1.1	1.6
TETRACHLOROETHYLENE	UG/L	6.1	< 0.5	< 0.5	4.6	< 0.5	0.4	4.3	0.9	0.5	1.2
BROMODICHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	3.0	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	1.8	< 1.0	< 1.0	2.2	< 1.0	< 0.5	2.7	3.8	1.4	0.7
1,1-DICHLOROETHANE	UG/L	47	3.3	1.5	44	2.1	2.2	36	11	9.4	3.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	1.2	< 0.5	< 0.5	1.9	< 0.5	< 0.3	1.7	0.9	1.0	< 0.3
BENZENE	UG/L	3.0	< 0.5	< 0.5	3.5	< 0.5	< 0.3	< 0.5	0.8	< 0.3	< 0.3
TOLUENE	UG/L	41	< 0.5	< 0.5	42	< 0.5	< 0.3	< 0.5	1.7	< 0.3	< 0.3
ETHYL BENZENE	UG/L	0.5	< 0.5	< 0.5	2.5	< 0.5	< 0.3	1.3	< 0.3	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.5	< 5.0	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.5	< 5.0	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.5	< 5.0	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 5.0	< 15	< 2.5	< 2.5	< 2.5	< 7.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 10	< 2.0	< 2.5	< 15	< 1.0	< 1.0	< 5.0 F	< 5.0	< 1.0	< 1.0

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F-INTERFERENCE G-CHECK NOTES TO USER H-BLANK CONTAMINANT I-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ50297 01/07/93	EFFL LCRS SJ52563 02/17/93	EFFL LCRS SJ53323 03/03/93	EFFL LCRS SJ54562 03/26/93	EFFL LCRS SJ57107 05/14/93	EFFL LCRS SJ59150 06/25/93	EFFL LCRS SJ60076 07/16/93	EFFL LCRS SJ61864 08/20/93	EFFL LCRS SJ64469 10/15/93	EFFL LCRS SJ66416 11/24/93
VOLATILE ORGANIC COMPOUND											
ACETONE	UG/L	350	< 5.0	< 10	380	< 5.0	< 5.0	< 5.0	< 15	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L				29	2.0	< 0.3	24	28	12	6.0
2-BUTANONE	UG/L	30	< 1.0	< 2.5	340	< 1.0	2.3	2.9	< 2.5	< 1.0	3.4
ACID-BASE NEUTRAL EXTRACT											
ACENAPHTHENE	UG/L	< 20	< 20	< 20			< 2				
ACENAPHTHYLENE	UG/L	< 20	< 20	< 20			< 2				
ANTHRACENE	UG/L	< 10	< 10	< 10			< 1				
BENZIDINE	UG/L	< 620	< 620	< 620			< 62				
BENZO(A)ANTHRACENE	UG/L	< 20	< 20	< 20			< 2				
BENZO(A)PYRENE	UG/L	< 70	< 70	< 70			< 7				
BENZO(B)FLUORANTHENE	UG/L	< 20	< 20	< 20			< 2				
BENZO(G,H,I,)PERYLENE	UG/L	< 60	< 60	< 60			< 6				
BENZO(K)FLUORANTHENE	UG/L	< 20	< 20	< 20			< 2				
BIS(2-CL-ETHOXY)METHANE	UG/L	< 30	< 30	< 30			< 3				
BIS(2-CHLOROETHYL)ETHER	UG/L	< 50	< 50	< 50			< 5				
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 30	< 30	< 30			< 3				
DIETHYLHEXYL PHTHALATE	UG/L	< 100	< 100	< 100			< 10				
4-BROMOPHENYL PHENYLETHER	UG/L	< 90	< 90	< 90			< 9				
BUTYLBENZYL PHTHALATE	UG/L	< 30	< 30	< 30			< 3				
2-CHLORONAPHTHALENE	UG/L	< 10	< 10	< 10			< 1				
4-CHLOROPHENYLPHENYLETHER	UG/L	< 20	< 20	< 20			< 2				
CHRYSENE	UG/L	< 20	< 20	< 20			< 2				
DIBENZO(A,H)ANTHRACENE	UG/L	< 60	< 60	< 60			< 6				
1,2-DICHLOROBENZENE	UG/L	< 100	< 100	< 100			< 10				
1,3-DICHLOROBENZENE	UG/L	< 100	< 100	< 100			< 10				
1,4-DICHLOROBENZENE	UG/L	< 20	< 20	< 20			< 2				
3,3'-DICHLOROBENZIDINE	UG/L	< 1000	< 1000	< 1000			< 100				
DIETHYL PHTHALATE	UG/L	< 20	< 20	< 20			< 2				
DIMETHYL PHTHALATE	UG/L	< 30	< 30	< 30			< 3				
DI-N-BUTYL PHTHALATE	UG/L	< 40	< 40	< 40			< 4				
2,4-DINITROTOLUENE	UG/L	< 30	< 30	< 30			< 3				
2,6-DINITROTOLUENE	UG/L	< 50	< 50	< 50			< 5				
DI-N-OCTYL PHTHALATE	UG/L	< 50	< 50	< 50			< 5				
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	< 10	< 10			< 1				
FLUORANTHENE	UG/L	< 20	< 20	< 20			< 2				
FLUORENE	UG/L	< 20	< 20	< 20			< 2				
HEXACHLOROBENZENE	UG/L	< 10	< 10	< 10			< 1				
HEXACHLOROBUTADIENE	UG/L	< 100	< 100	< 100			< 10				
HEXACHLOROCYCLOPENTADIENE	UG/L	< 1000	< 1000	< 1000			< 100				
HEXACHLOROETHANE	UG/L	< 120	< 120	< 120			< 12				
INDENO(1,2,3-C,D)PYRENE	UG/L	< 60	< 60	< 60			< 6				

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

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ACID-BASE NEUTRAL EXTRACT											
ISOPHORONE	UG/L	< 30	< 30	< 30			< 3				
NAPHTHALENE	UG/L	< 20	< 20	< 20			< 2				
NITROBENZENE	UG/L	< 20	< 20	< 20			< 2				
N-NITROSODIMETHYLAMINE	UG/L	< 300	< 300	< 300			< 30				
N-NITROSODI-N-PROPYLAMINE	UG/L	< 20	< 20	< 20			< 2				
PHENANTHRENE	UG/L	< 10	< 10	< 10			< 1				
PYRENE	UG/L	< 20	< 20	< 20			< 2				
2,3,7,8-TCDD	UG/L	< 30	< 30	< 30			< 3				
2-CHLOROPHENOL	UG/L	< 80	< 80	< 80			< 8				
1,2,4-TRICHLOROBENZENE	UG/L	< 30	< 30	< 30			< 3				
2,4-DICHLOROPHENOL	UG/L	< 30	< 30	< 30			< 3				
2,4-DIMETHYLPHENOL	UG/L	< 30	< 30	< 30			< 3				
2,4-DINITROPHENOL	UG/L	< 390	< 390	< 390			< 39				
2-METHYL-4,6DINITROPHENOL	UG/L	< 170	< 170	< 170			< 17				
2-NITROPHENOL	UG/L	< 50	< 50	< 50			< 5				
4-NITROPHENOL	UG/L	< 60	< 60	< 60			< 6				
4-CHLORO-3-METHYLPHENOL	UG/L	< 20	< 20	< 20			< 2				
PENTACHLOROPHENOL	UG/L	< 160	< 160	< 160			< 16				
PHENOL	UG/L	< 30	< 30	< 30			< 3				
2,4,6-TRICHLOROPHENOL	UG/L	< 20	< 20	< 20			< 2				
N-NITROSODIPHENYLAMINE	UG/L	< 20	< 20	< 20			< 2				

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ67412 12/17/93	
GENERAL			
PH	PH	8.10	
CONDUCTIVITY	UMHOS/CM	5385	A
SUSPENDED SOLIDS	MG/L	33	A
TOTAL DISSOLVED SOLIDS	MG/L	4471	
TOTAL HARDNESS	MG/L CACO3	1930	C
TOTAL CYANIDE	MG/L CN	< 0.01	
PHENOLS	MG/L C6H5OH	0.006	
BORON	MG/L B	2.12	
ANIONS			
NITRATE NITROGEN	MG/L N	0.66	
SULFATE	MG/L SO4	1850	
CHLORIDE	MG/L CL	610	
TOTAL ALKALINITY	MG/L CACO3	798	
BICARBONATE ALKALINITY	MG/L CACO3	798	
TOTAL PHOSPHATE	MG/L PO4	2.32	
TOTAL SULFIDE	MG/L S	< 0.1	
FLUORIDE	MG/L F	0.35	
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	861	
MAGNESIUM-HARDNESS	MG/L CACO3	1070	
SODIUM	MG/L NA	636	
POTASSIUM	MG/L K	17.5	
IRON	MG/L FE	5.93	
MANGANESE	MG/L MN	2.91	
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	1.7	
TOTAL BOD	MG/L O	8	
SOLUBLE BOD	MG/L O	1	A
TOTAL COD	MG/L O	75	
SOLUBLE COD	MG/L O	65	
TOTAL ORGANIC CARBON	MG/L C	23	D
OIL & GREASE	MG/L EXTRAC	< 0.91	
TOTAL ORGANIC HALOGEN(TOX	UG/L	160	
ACETIC ACID	MG/L	< 2.5	
PROPIONIC ACID	MG/L	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0	
BUTYRIC ACID	MG/L	< 2.0	

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ67412 12/17/93
ORGANIC MATTER		
ISOVALERIC ACID	MG/L	< 2.0
VALERIC ACID	MG/L	< 2.0
METALS		
ARSENIC	MG/L AS	0.098
BARIUM	MG/L BA	0.14
CADMIUM	MG/L CD	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02
HEXAVALENT CHROMIUM	MG/L CR	.0009 D
COBALT	MG/L CO	< 0.04
COPPER	MG/L CU	0.09
LEAD	MG/L PB	< 0.04
MERCURY	MG/L HG	<.0001 D
NICKEL	MG/L NI	< 0.03
SELENIUM	MG/L SE	<0.001
SILVER	MG/L AG	<0.005
ZINC	MG/L ZN	0.15
ANTIMONY	MG/L SB	<0.001
BERYLLIUM	MG/L BE	<.0005
THALLIUM	MG/L TL	<0.002
PESTICIDES		
PP'-DDE	UG/L	< 0.01
PP'-DDD	UG/L	< 0.01
PP'-DDT	UG/L	< 0.01
ALPHA-BHC	UG/L	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01
HEPTACHLOR	UG/L	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01
ALDRIN	UG/L	< 0.01
DIELDRIN	UG/L	< 0.01
ENDRIN	UG/L	< 0.01
TOXAPHENE	UG/L	< 3
METHOXYCLOR	UG/L	< 2
AROCLOR 1242	UG/L	< 0.1
AROCLOR 1254	UG/L	< 0.1
BETA-BHC	UG/L	< 0.01
DELTA-BHC	UG/L	< 0.01
ENDOSULFAN I	UG/L	< 0.01
ENDOSULFAN II	UG/L	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ67412 12/17/93
PESTICIDES		
ENDRIN ALDEHYDE	UG/L	< 0.01
AROCLOR 1016	UG/L	< 0.1
AROCLOR 1221	UG/L	< 0.1
AROCLOR 1232	UG/L	< 0.1
AROCLOR 1248	UG/L	< 0.1
AROCLOR 1260	UG/L	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.1
VOLATILE ORGANIC COMPOUND		
METHYLENE CHLORIDE	UG/L	< 1.0
CHLOROFORM	UG/L	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3
TRICHLOROETHYLENE	UG/L	0.8
TETRACHLOROETHYLENE	UG/L	0.6
BROMODICHLOROMETHANE	UG/L	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5
BROMOFORM	UG/L	< 0.5
CHLOROBENZENE	UG/L	< 0.5
VINYL CHLORIDE	UG/L	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5
1,1-DICHLOROETHANE	UG/L	2.4
1,1,2-TRICHLOROETHANE	UG/L	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3
BENZENE	UG/L	< 0.3
TOLUENE	UG/L	< 0.3
ETHYL BENZENE	UG/L	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3
BROMOMETHANE	UG/L	< 2.5
CHLOROETHANE	UG/L	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0
CHLOROMETHANE	UG/L	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5
ACROLEIN	UG/L	< 2.5
ACRYLONITRILE	UG/L	< 1.0
ACETONE	UG/L	< 5.0

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ67412 12/17/93	
VOLATILE ORGANIC COMPOUND			
CIS-1,2-DICHLOROETHYLENE	UG/L	2.9	
2-BUTANONE	UG/L	< 1.0	
ACID-BASE NEUTRAL EXTRACT			
ACENAPHTHENE	UG/L	< 20	
ACENAPHTHYLENE	UG/L	< 20	
ANTHRACENE	UG/L	< 10	
BENZIDINE	UG/L	< 620	
BENZO(A)ANTHRACENE	UG/L	< 20	
BENZO(A)PYRENE	UG/L	< 70	
BENZO(B)FLUORANTHENE	UG/L	< 20	
BENZO(G,H,I,)PERYLENE	UG/L	< 60	
BENZO(K)FLUORANTHENE	UG/L	< 20	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 30	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 50	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 30	
DIETHYLHEXYL PHTHALATE	UG/L	8 I	
4-BROMOPHENYL PHENYLETHER	UG/L	< 90	
BUTYLBENZYL PHTHALATE	UG/L	< 30	
2-CHLORONAPHTHALENE	UG/L	< 10	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 20	
CHRYSENE	UG/L	< 20	
DIBENZO(A,H)ANTHRACENE	UG/L	< 60	
1,2-DICHLOROBENZENE	UG/L	< 100	
1,3-DICHLOROBENZENE	UG/L	< 100	
1,4-DICHLOROBENZENE	UG/L	< 20	
3,3'-DICHLOROBENZIDINE	UG/L	< 1000	
DIETHYL PHTHALATE	UG/L	< 20	
DIMETHYL PHTHALATE	UG/L	< 30	
DI-N-BUTYL PHTHALATE	UG/L	< 40	
2,4-DINITROTOLUENE	UG/L	< 30	
2,6-DINITROTOLUENE	UG/L	< 50	
DI-N-OCTYL PHTHALATE	UG/L	< 50	
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	
FLUORANTHENE	UG/L	< 20	
FLUORENE	UG/L	< 20	
HEXACHLOROBENZENE	UG/L	< 10	
HEXACHLOROBUTADIENE	UG/L	< 100	
HEXACHLOROCYCLOPENTADIENE	UG/L	< 1000	
HEXACHLOROETHANE	UG/L	< 120	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 60	
ISOPHORONE	UG/L	< 30	

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

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ACID-BASE NEUTRAL EXTRACT		
NAPHTHALENE	UG/L	< 20
NITROBENZENE	UG/L	< 20
N-NITROSODIMETHYLAMINE	UG/L	< 300
N-NITROSODI-N-PROPYLAMINE	UG/L	< 20
PHENANTHRENE	UG/L	< 10
PYRENE	UG/L	< 20
2,3,7,8-TCDD	UG/L	< 30
2-CHLOROPHENOL	UG/L	< 80
1,2,4-TRICHLOROBENZENE	UG/L	< 30
2,4-DICHLOROPHENOL	UG/L	< 30
2,4-DIMETHYLPHENOL	UG/L	< 30
2,4-DINITROPHENOL	UG/L	< 390
2-METHYL-4,6DINITROPHENOL	UG/L	< 170
2-NITROPHENOL	UG/L	< 50
4-NITROPHENOL	UG/L	< 60
4-CHLORO-3-METHYLPHENOL	UG/L	< 20
PENTACHLOROPHENOL	UG/L	< 160
PHENOL	UG/L	< 30
2,4,6-TRICHLOROPHENOL	UG/L	< 20
N-NITROSODIPHENYLAMINE	UG/L	< 20

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APPENDIX A.8

WATER QUALITY DATA - VADOSE ZONE LYSIMETERS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L3 SJ54028 03/17/93	LYS L3 SJ58888 06/21/93	LYS L3 SJ63116 09/17/93	LYS L3 SJ67646 12/28/93
METALS					
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.02	< 0.02
COPPER	MG/L CU	0.05	0.03	0.04	0.02
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04	< 0.04
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03	< 0.03
ZINC	MG/L ZN	0.29	0.18	0.20	0.25
VOLATILE ORGANIC COMPOUND					
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	5.2 B
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	1.2
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3 A	< 0.3	< 0.3 A	< 0.3 A
TRICHLOROETHYLENE	UG/L	0.9 A	0.8	0.7 A	2.0 A
TETRACHLOROETHYLENE	UG/L	8.3	7.2	6.7	14
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5 A	< 0.5	< 0.5 A	< 0.5 A
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3 A	< 0.3	< 0.3 A	< 0.3 A
TOLUENE	UG/L	< 0.3 A	< 0.3	< 0.3 A	0.7 B
ETHYL BENZENE	UG/L	< 0.3	0.4	< 0.3	0.8
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	UG/L	< 5.0	< 5.0 A	< 5.0	< 5.0
2-BUTANONE	UG/L	< 1.0	< 1.0 A	< 1.0	< 1.0

FOOTNOTES : A-DUPLICATE SPIKE B-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L4A SJ54029 03/17/93
METALS		
CADMIUM	MG/L CD	< 0.01
TOTAL CHROMIUM	MG/L CR	0.03
COPPER	MG/L CU	0.93
LEAD	MG/L PB	< 0.04
NICKEL	MG/L NI	0.09
ZINC	MG/L ZN	0.88
VOLATILE ORGANIC COMPOUND		
METHYLENE CHLORIDE	UG/L	< 1.0
CHLOROFORM	UG/L	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3
TRICHLOROETHYLENE	UG/L	0.3
TETRACHLOROETHYLENE	UG/L	0.5
BROMODICHLOROMETHANE	UG/L	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5
BROMOFORM	UG/L	< 0.5
CHLOROBENZENE	UG/L	< 0.5
VINYL CHLORIDE	UG/L	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3
1,2-DICHLOROETHANE	UG/L	0.6
BENZENE	UG/L	< 0.3
TOLUENE	UG/L	< 0.3
ETHYL BENZENE	UG/L	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3
BROMOMETHANE	UG/L	< 2.5
CHLOROETHANE	UG/L	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0
CHLOROMETHANE	UG/L	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5
ACETONE	UG/L	13
2-BUTANONE	UG/L	1.6

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L5 SJ63117 09/17/93
METALS		
CADMIUM	MG/L CD	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02
COPPER	MG/L CU	0.04
LEAD	MG/L PB	< 0.04
NICKEL	MG/L NI	< 0.03
ZINC	MG/L ZN	0.22

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L6 SJ54030 03/17/93	LYS L6 SJ58889 06/21/93	LYS L6 SJ63118 09/17/93
METALS				
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02
COPPER	MG/L CU	0.22	0.09	0.04
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03
ZINC	MG/L ZN	0.15	0.02	0.04
VOLATILE ORGANIC COMPOUND				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	1.5
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
ACETONE	UG/L	< 5.0	< 5.0	< 5.0
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0

COUNTY SANITATION DIST. ..S OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L7 SJ54031 03/17/93	LYS L7 SJ58890 06/21/93	LYS L7 SJ63119 09/17/93	LYS L7 SJ67647 12/28/93						
METALS											
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.1							
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02							
COPPER	MG/L CU	0.12	0.06	0.07							
LEAD	MG/L PB	< 0.04	< 0.04	< 0.04							
NICKEL	MG/L NI	< 0.03	< 0.03	< 0.03							
ZINC	MG/L ZN	0.17	0.06	< 0.02							
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	1.0	6.5	A					
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TOLUENE	UG/L	< 0.3	< 0.3	0.5	0.4	A					
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0						
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0						
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0						

FOOTNOTES : A-CHECK NOTES TO USER

APPENDIX A.9

WATER QUALITY DATA - SURFACE RUNOFF

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ52631 02/18/93	RUN EQIP SJ67265 12/14/93	RUN SD1 SJ52628 02/18/93	RUN SD1 SJ67262 12/14/93	RUN SD2 SJ52629 02/18/93	RUN SD2 SJ67263 12/14/93	RUN SD9 SJ52630 02/18/93	RUN SD9 SJ67264 12/14/93
GENERAL									
PH	PH	6.30	6.0	7.57	7.9	7.57	7.9	7.50	8.1
CONDUCTIVITY	UMHOS/CM	1.9	3.75	689	485	383	487	983	1540
SUSPENDED SOLIDS	MG/L	< 1	< 4	3040	6850	5180	5310	9540	1390
TOTAL DISSOLVED SOLIDS	MG/L	7	< 10	501	340	259	200	740	960
ANIONS									
NITRATE NITROGEN	MG/L N	< 0.01	< 0.03	1.84	4.5	< 0.01	2.8	< 0.01 A	1.5
ORGANIC MATTER									
TOTAL ORGANIC CARBON	MG/L C	0.24	< 1.0	58	27	330	80	170	180
OIL & GREASE	MG/L EXTRAC	< 1 A	< 5	2.3	< 5	66.1	12.4	3.4	9.8
METALS									
ARSENIC	MG/L AS	<.0005	<0.003	0.048	0.098	0.31	0.074	0.35	0.275
BARIUM	MG/L BA	<0.007	< 0.02	0.23	1.75	1.7	1.38	1.6	0.37
ALUMINUM	MG/L AL	B	< 0.10	B	294	B	189	B	21.2
CADMIUM	MG/L CD	< 0.02	< 0.01	0.033	< 0.01	0.16	< 0.01	0.29	0.02
TOTAL CHROMIUM	MG/L CR	< 0.03	< 0.02	0.063	0.62	0.29	0.41	0.44	< 0.02
COBALT	MG/L CO	< 0.04	< 0.05	< 0.04	0.20	0.087	0.13	0.16	0.12
COPPER	MG/L CU	< 0.02	< 0.02	0.072	0.48	0.57	0.48	0.51	0.08
LEAD	MG/L PB	< 0.05	0.12	< 0.05	0.26	0.49	0.43	0.22	0.12
MERCURY	MG/L HG	<.0005	<.0005	<.0005	.0014	.0012	.0028	.0015	.0095
NICKEL	MG/L NI	< 0.04	< 0.05	0.056	0.41	0.21	0.26	0.33	0.25
SELENIUM	MG/L SE	<.0005	< 0.01	<.0005	< 0.01	<.0005	< 0.01	<.0005	< 0.01
SILVER	MG/L AG	< 0.01	< 0.02	< 0.01	< 0.02	0.016	< 0.02	< 0.01	< 0.02
ZINC	MG/L ZN	< 0.01	0.03	0.61	1.61	2.3	1.58	2.9	1.51
ANTIMONY	MG/L SB	<0.005	<0.003	<0.005	0.013	<0.005	0.013	<0.005	0.032
BERYLLIUM	MG/L BE	<0.002	< 0.02	<0.002	< 0.02	.0037	< 0.02	.0075	< 0.02
MOLYBOENUM	MG/L MO	< 0.04	< 0.20	< 0.04	< 0.20	< 0.04	< 0.20	< 0.04	< 0.20
THALLIUM	MG/L TL	<0.002	<0.005	<0.002	<0.005	<0.002	<0.005	<0.002	<0.005
TIN	MG/L SN	< 0.5	< 0.05	< 0.5	0.30	0.56	< 0.05	0.97	< 0.05
VANADIUM	MG/L V	< 0.04	< 0.05	<0.095	0.84	0.34	0.62	0.61	< 0.05
SOLUBLE ARSENIC	MG/L AS	<.0005	<0.003	<.0005	<0.003	.0011	<0.003	.0006	<0.003
SOLUBLE BARIUM	MG/L BA	<0.007	< 0.02	0.030	0.03	0.028	0.03	0.034	0.05
SOLUBLE ANTIMONY	MG/L SB	<0.005	<0.003	<0.005	<0.003	<0.005	<0.003	<0.005	0.005
SOLUBLE CADMIUM	MG/L CD	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01
SOLUBLE CHROMIUM	MG/L CR	< 0.03	< 0.02	< 0.03	< 0.02	< 0.03	< 0.02	< 0.03	< 0.02
SOLUBLE COBALT	MG/L CO	< 0.04	< 0.05	< 0.04	< 0.05	< 0.04	< 0.05	< 0.04	< 0.05
SOLUBLE COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SOLUBLE LEAD	MG/L PB	< 0.05	< 0.20	< 0.05	< 0.20	< 0.05	0.11	< 0.05	< 0.20

FOOTNOTES : A-DUPLICATE SPIKE B-TEST NOT REQUIRED C-VALUE <MDL, >IDL D-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ52631 02/18/93	RUN EQIP SJ67265 12/14/93	RUN SD1 SJ52628 02/18/93	RUN SD1 SJ67262 12/14/93	RUN SD2 SJ52629 02/18/93	RUN SD2 SJ67263 12/14/93	RUN SD9 SJ52630 02/18/93	RUN SD9 SJ67264 12/14/93
METALS									
SOLUBLE MERCURY	MG/L HG	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
SOLUBLE NICKEL	MG/L NI	< 0.04	< 0.05	< 0.04	< 0.05	< 0.04	< 0.05	< 0.04	< 0.05
SOLUBLE SELENIUM	MG/L SE	<.0005	< 0.01	.0008 D	< 0.01	.0013 D	< 0.01	.0012 D	0.005
SOLUBLE BERYLLIUM	MG/L BE	<0.002	< 0.02	<0.002	< 0.02	<0.002	< 0.02	<0.002	< 0.02
SOLUBLE SILVER	MG/L AG	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02
SOLUBLE ZINC	MG/L ZN	0.017	0.05	0.085	0.03	0.023	0.04	0.042	0.06
SOLUBLE THALLIUM	MG/L TL	<0.002	<0.005	<0.002	<0.005	<0.002	<0.005	<0.002	<0.005
SOLUBLE TIN	MG/L SN	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.05
SOLUBLE VANADIUM	MG/L V	< 0.04	< 0.05	< 0.04	< 0.05	< 0.04	< 0.05	< 0.04	< 0.05
PESTICIDES									
PP'-DDE	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	0.02	< 0.02	< 0.01	
PP'-DDD	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	0.01	< 0.02	< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	0.02	< 0.02	0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	0.02	< 0.02	0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
ALDRIN	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
DIELORIN	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	0.01	< 0.02	< 0.01	
ENORIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
TOXAPHENE	UG/L	< 5	< 0.59	< 5	< 0.59	< 5	< 0.56	< 5	
AROCLOR 1242	UG/L	< 0.1	< 0.59	< 0.1	< 0.59	< 0.1	< 0.56	< 0.1	
AROCLOR 1254	UG/L	< 0.1	< 0.59	< 0.1	< 0.59	< 0.1	< 0.56	< 0.1	
BETA-BHC	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
DELTA-BHC	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	
AROCLOR 1016	UG/L	< 0.1	< 0.59	< 0.1	< 0.59	< 0.1	< 0.56	< 0.1	
AROCLOR 1221	UG/L	< 0.1	< 0.59	< 0.1	< 0.59	< 0.1	< 0.56	< 0.1	
AROCLOR 1232	UG/L	< 0.1	< 0.59	< 0.1	< 0.59	< 0.1	< 0.56	< 0.1	
AROCLOR 1248	UG/L	< 0.1	< 0.59	< 0.1	< 0.59	< 0.1	< 0.56	< 0.1	
AROCLOR 1260	UG/L	< 0.1	< 0.59	< 0.1	< 0.59	< 0.1	< 0.56	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.1	< 0.24	< 0.1	< 0.24	0.7	< 0.22	< 0.1	
VOLATILE ORGANIC COMPOUND									
METHYLENE CHLORIDE	UG/L	< 1.0	< 3	< 1.0	< 3	< 1.0	< 3	< 1.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

FOOTNOTES : A-DUPLICATE SPIKE B-TEST NOT REQUIRED C-VALUE <MDL, >IDL D-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ52631 02/18/93	RUN EQIP SJ57265 12/14/93	RUN SD1 SJ52628 02/18/93	RUN SD1 SJ67262 12/14/93	RUN SD2 SJ52629 02/18/93	RUN SD2 SJ67263 12/14/93	RUN SD9 SJ52630 02/18/93	RUN SD9 SJ67264 12/14/93
VOLATILE ORGANIC COMPOUND									
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.5	< 0.3 A	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.5	< 0.3 A	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5 A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 1	< 0.5	< 1	< 0.5	< 1	< 0.5	< 1
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< D.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
BENZENE	UG/L	< 0.3	< 0.5	< 0.3 A	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
TOLUENE	UG/L	< 0.3	0.9	< 0.3 A	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 1	< 2.5	< 1	< 2.5	< 1	< 2.5	< 1
CHLOROETHANE	UG/L	< 2.5	< 1	< 2.5	< 1	< 2.5	< 1	< 2.5	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1	< 1.0	< 1	< 1.0	< 1	< 1.0	< 1
CHLOROMETHANE	UG/L	< 2.5	< 1	< 2.5	< 1	< 2.5	< 1	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLORDETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACID-BASE NEUTRAL EXTRACT									
ACENAPHTHENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
ACENAPHTHYLENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
ANTHRACENE	UG/L	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
BENZIDINE	UG/L	< 62	< 50	< 62	< 50	< 62	< 50	< 62	< 50
BENZO(A)ANTHRACENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
BENZO(A)PYRENE	UG/L	< 7	< 5	< 7	< 5	< 7	< 5	< 7	< 5
BENZO(B)FLUORANTHENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 10	< 6	< 10	< 6	< 10	< 6	< 10
BENZO(K)FLUORANTHENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 10	< 3	< 10	< 3	< 10	< 3	< 10
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 10	< 5	< 10	< 5	< 10	< 5	< 10
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 10	< 3	< 10	< 3	< 10	< 3	< 10
DIETHYLHEXYL PHTHALATE	UG/L	3 C	< 20	3 C	< 20	4 C	< 20	1 C	< 20

FOOTNOTES : A-DUPLICATE SPIKE B-TEST NOT REQUIRED C-VALUE <MDL, >IDL D-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ52631 02/18/93	RUN EQIP SJ67265 12/14/93	RUN SD1 SJ52628 02/18/93	RUN SD1 SJ67262 12/14/93	RUN SD2 SJ52629 02/18/93	RUN SD2 SJ67263 12/14/93	RUN SD9 SJ52630 02/18/93	RUN SD9 SJ67264 12/14/93
ACID-BASE NEUTRAL EXTRACT									
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 5	< 9	< 5	< 9	< 5	< 9	< 5
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 5	< 3	< 5	< 3	< 5	< 3	< 5
2-CHLORONAPHTHALENE	UG/L	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
CHRYSENE	UG/L	< 2	< 5	1 C	< 5	< 2	< 5	< 2	< 5
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 10	< 6	< 10	< 6	< 10	< 6	< 10
1,2-DICHLOROBENZENE	UG/L	< 10	< 5	< 10	< 5	< 10	< 5	< 10	< 5
1,3-DICHLOROBENZENE	UG/L	< 10	< 5	< 10	< 5	< 10	< 5	< 10	< 5
1,4-DICHLOROBENZENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 50	< 100	< 50	< 100	< 50	< 100	< 50
DIETHYL PHTHALATE	UG/L	< 2	< 5	< 2	< 5	1 C	< 5	< 2	< 5
DIMETHYL PHTHALATE	UG/L	< 3	< 5	< 3	< 5	< 3	< 5	< 3	< 5
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 10	< 4	< 10	< 4	< 10	< 4	< 10
2,4-DINITROTOLUENE	UG/L	< 3	< 5	< 3	< 5	< 3	< 5	< 3	< 5
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 10	< 5	< 10	< 5	< 10	< 5	< 10
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 10	< 1	< 10	< 1	< 10	< 1	< 10
FLUORANTHENE	UG/L	< 2	< 5	1 C	< 5	< 2	< 5	< 2	< 5
FLUORENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
HEXACHLOROBENZENE	UG/L	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 10	< 100	< 10	< 100	< 10	< 100	< 10
HEXACHLOROETHANE	UG/L	< 12	< 5	< 12	< 5	< 12	< 5	< 12	< 5
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 10	< 6	< 10	< 6	< 10	< 6	< 10
ISOPHORONE	UG/L	< 3	< 5	< 3	< 5	< 3	< 5	< 3	< 5
NAPHTHALENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
NITROBENZENE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 5	< 30	< 5	< 30	< 5	< 30	< 5
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
PHENANTHRENE	UG/L	< 1	< 5	< 1	< 5	1	< 5	1	< 5
PYRENE	UG/L	< 2	< 5	< 2	< 5	1 C	< 5	< 2	< 5
2,3,7,8-TCDD	UG/L	< 3	< 1	< 3	< 1	< 3	< 1	< 3	< 1
2-CHLOROPHENOL	UG/L	< 8	< 5	< 8	< 5	< 8	< 5	< 8	< 5
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 5	< 3	< 5	< 3	< 5	< 3	< 5
2,4-DICHLOROPHENOL	UG/L	< 3	< 5	< 3	< 5	< 3	< 5	< 3	< 5
2,4-DIMETHYLPHENOL	UG/L	< 3	< 5	< 3	< 5	< 3	< 5	< 3	< 5
2,4-DINITROPHENOL	UG/L	< 39	< 50	< 39	< 50	< 39	< 50	< 39	< 50
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 5	< 17	< 5	< 17	< 5	< 17	< 5
2-NITROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-NITROPHENOL	UG/L	< 6	< 10	3 C	< 10	4 C	< 10	3 C	< 10
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
PENTACHLOROPHENOL	UG/L	< 16	< 10	< 16	< 10	< 16	< 10	< 16	< 10
PHENOL	UG/L	< 3	< 5	< 3	< 5	5	< 5	< 3	< 5

FOOTNOTES : A-DUPLICATE SPIKE B-TEST NOT REQUIRED C-VALUE <MDL, >IDL D-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ52631 02/18/93	RUN EQIP SJ67265 12/14/93	RUN SD1 SJ52628 02/18/93	RUN SD1 SJ67262 12/14/93	RUN SD2 SJ52629 02/18/93	RUN SD2 SJ67263 12/14/93	RUN SD9 SJ52630 02/18/93	RUN SD9 SJ67264 12/14/93
ACID-BASE NEUTRAL EXTRACT									
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 5	< 2	< 5	< 2	< 5	< 2	< 5
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 5	< 2	< 5	1 C	< 5	< 2	< 5

FOOTNOTES : A-DUPLICATE SPIKE B-TEST NOT REQUIRED C-VALUE <MDL, >IDL D-CHECK NOTES TO USER

APPENDIX A.10

QUALITY ASSURANCE/QUALITY CONTROL DATA

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ50298 01/07/93	BLNK TRIP SJ50770 01/15/93	BLNK TRIP SJ51067 01/22/93	BLNK TRIP SJ51368 01/27/93	BLNK TRIP SJ51519 01/29/93	BLNK TRIP SJ52390 02/12/93	BLNK TRIP SJ52591 02/17/93	BLNK TRIP SJ52632 02/18/93	BLNK TRIP SJ53324 03/03/93	BLNK TRIP SJ53416 03/04/93
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLORDETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-XYLENE	UG/L					< 0.5					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYL.VINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLORDMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5			< 2.5			< 2.5		< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0			< 1.0			< 1.0		< 1.0	< 1.0
ACETONE	UG/L	< 5.0			< 5.0		< 5.0	< 5.0		5.3	6.6
2-BUTANONE	UG/L	< 1.0			< 1.0		< 1.0	< 1.0		< 1.0	1.2
M+P-XYLENE	UG/L					< 0.5					

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ53455 03/05/93	BLNK TRIP SJ53527 03/08/93	BLNK TRIP SJ53679 03/10/93	BLNK TRIP SJ54032 03/17/93	BLNK TRIP SJ54397 03/24/93	BLNK TRIP SJ54404 03/24/93	BLNK TRIP SJ54563 03/26/93	BLNK TRIP SJ55290 04/13/93	BLNK TRIP SJ55859 04/23/93	BLNK TRIP SJ56247 04/30/93
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLDROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	10	< 5.0	13	< 5.0	< 5.0	< 5.0	< 5.0			
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3	< 0.3			
2-BUTANONE	UG/L	1.7	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0			

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ56399 05/04/93	BLNK TRIP SJ57109 05/14/93	BLNK TRIP SJ57547 05/21/93	BLNK TRIP SJ58493 06/11/93	BLNK TRIP SJ58582 06/15/93	BLNK TRIP SJ58639 06/15/93	BLNK TRIP SJ58738 06/16/93	BLNK TRIP SJ58847 06/18/93	BLNK TRIP SJ58891 06/21/93	BLNK TRIP SJ58948 06/22/93
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-XYLENE	UG/L	< 0.5				< 0.5					
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L		< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5		< 2.5
ACRYLONITRILE	UG/L		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
ACETONE	UG/L				< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L				< 0.3		< 0.3	< 0.3	< 0.3		< 0.3
2-BUTANONE	UG/L				< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
M+P-XYLENE	UG/L	< 0.5				< 0.5					

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ58955 06/22/93	BLNK TRIP SJ59152 06/25/93	BLNK TRIP SJ59185 06/28/93	BLNK TRIP SJ59268 06/29/93	BLNK TRIP SJ59328 06/30/93	BLNK TRIP SJ59735 07/09/93	BLNK TRIP SJ60086 07/16/93	BLNK TRIP SJ60476 07/23/93	BLNK TRIP SJ60679 07/29/93	BLNK TRIP SJ61151 08/06/93
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-XYLENE	UG/L									< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5			
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0			
ACETONE	UG/L	< 5.0	7.6	< 5.0	20	21		20			
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3			
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	1.1	1.1		< 1.0			
M+P-XYLENE	UG/L									< 0.5	< 0.5

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ61157 08/06/93	BLNK TRIP SJ61868 08/20/93	BLNK TRIP SJ62162 08/27/93	BLNK TRIP SJ62244 08/31/93	BLNK TRIP SJ62461 09/03/93	BLNK TRIP SJ62474 09/03/93	BLNK TRIP SJ63095 09/16/93	BLNK TRIP SJ63097 09/16/93	BLNK TRIP SJ63120 09/17/93	BLNK TRIP SJ63129 09/17/93
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	2.0	1.9	2.1 A		< 1.0	1.2
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3
TRICHLDROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	0.3	0.3	< 0.3		< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3
BRDMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
ACROLEIN	UG/L		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5			< 2.5
ACRYLONITRILE	UG/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0
ACETONE	UG/L		< 5.0	12	13	10	10	9.7		9.5	9.5
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.3			< 0.3	< 0.3	< 0.3	< 0.3		< 0.3
2-BUTANONE	UG/L		< 1.0	1.4	1.3	< 1.0	< 1.0	1.6		1.5	1.5

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ63199 09/20/93	BLNK TRIP SJ63284 09/21/93	BLNK TRIP SJ63343 09/22/93	BLNK TRIP SJ63398 09/23/93	BLNK TRIP SJ63543 09/27/93	BLNK TRIP SJ63581 09/28/93	BLNK TRIP SJ63651 09/29/93	BLNK TRIP SJ64139 10/08/93	BLNK TRIP SJ64261 10/12/93	BLNK TRIP SJ64434 10/15/93
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	2.2	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	0.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-XYLENE	UG/L							< 0.5			< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLORDPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5				
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				
ACETONE	UG/L	6.6	7.9	7.7	< 5.0	12	10				
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3				
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	1.8	1.8				
M+P-XYLENE	UG/L							< 0.5			< 0.5

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ64470 10/15/93	BLNK TRIP SJ64849 10/22/93	BLNK TRIP SJ65748 11/12/93	BLNK TRIP SJ66106 11/18/93	BLNK TRIP SJ66426 11/24/93	BLNK TRIP SJ67185 12/13/93	BLNK TRIP SJ67266 12/14/93	BLNK TRIP SJ67310 12/15/93	BLNK TRIP SJ67359 12/16/93	BLNK TRIP SJ67413 12/17/93
VOLATILE ORGANIC COMPOUND											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3	3.5 A	< 1.0	1.3 B
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.3	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.9	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 2.5	< 2.5
2-CHLORDETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 2.5	< 2.5
1,2-DICHLORDPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5		< 2.5			< 2.5		< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0		< 1.0			< 1.0		< 1.0	< 1.0	< 1.0
ACETONE	UG/L	7.5		6.9			< 5.0		< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3					< 0.3		< 0.3	< 0.3	< 0.3
2-BUTANONE	UG/L	< 1.0		< 1.0			< 1.0		< 1.0	< 1.0	< 1.0

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANOFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ67481 12/20/93	BLNK TRIP SJ67565 12/22/93	BLNK TRIP SJ67597 12/23/93	BLNK TRIP SJ67638 12/27/93	BLNK TRIP SJ67648 12/28/93	BLNK TRIP SJ67679 12/28/93	BLNK TRIP SJ67716 12/29/93
VOLATILE ORGANIC COMPOUND								
METHYLENE CHLORIDE	UG/L	3.2	< 1.0	11 A	9.8 A	7.8 A	6.2 A	9.8
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	0.4	0.6 A	0.5 A	0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

FOOTNOTES : A-CHECK NOTES TO USER B-BLANK CONTAMINANT

APPENDIX B

DECLARATION - DAVID KEITH TODD

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Attorneys for Respondents

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

HACIENDA LA PUENTE UNIFIED SCHOOL DISTRICT OF LOS ANGELES COUNTY; HACIENDA HEIGHTS IMPROVEMENT ASSOCIATION, INC., a non-profit corporation; MARIAN P. MANUELE, an individual; ROBERT L. MANUELE, an individual; NANCY ABBOTT, an individual; and JEFFREY A. YANN, an individual,

Petitioner,

v.

COUNTY SANITATION DISTRICT NO. 2 OF LOS ANGELES COUNTY and THE BOARD OF DIRECTORS OF COUNTY SANITATION DISTRICT NO. 2 OF LOS ANGELES COUNTY, in their official capacities,

Respondents.

RR&C DEVELOPMENT COMPANY, a General Partnership,

Petitioner,

v.

[CAPTION CONTINUED TO NEXT PAGE]

CASE NO. BS 021186 (Consolidated With BC 071648)

DECLARATION OF DAVID KEITH TODD, PH.D., IN SUPPORT OF RESPONDENTS' REPLY TO HHIA PETITIONERS' OPPOSITION TO MOTION FOR ORDERS PROVIDING FOR CONTINUED OPERATION PENDING FURTHER PROCEEDINGS UNDER CEQA

Date: Oct. 26, 1993
Time: 9:30 am
Dept: 86

Trial: Sept. 14, 1993

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY; COUNTY SANITATION DISTRICT NO. 2 OF LOS ANGELES COUNTY, BOARD OF DIRECTORS; and DOES 1 through 50, inclusive,

Respondents.

DECLARATION OF DAVID KEITH TODD, Ph.D

I, DAVID KEITH TODD, declare as follows:

1. I am a professor Emeritus of Civil Engineering at the University of California, Berkeley. In addition, I have served as an independent consulting engineer in the field of water resources planning, development and management since 1950. In 1978, I formed my own consulting firm -- David Keith Todd Consulting Engineers, Inc. I received a B.S. in Civil Engineering from Purdue University, and M.S. in Meteorology from New York University and a Ph.D in Civil Engineering from the University of California, Berkeley. I am a registered civil engineer in the states of California, Delaware and Indiana. A true and correct copy of my curriculum vitae is attached. During my tenure at the University of California at Berkeley, I taught each of the hydrology courses and supervised the graduate program in Water Resources Engineering. I have published more than 100 scientific papers and 7 books. I am the author of Groundwater Hydrology, one of the standard groundwater hydrology textbooks used at universities throughout the world. I have performed research sponsored by the United States Geological Survey, the United States Environmental Protection Agency, and other organizations. I have provided consulting services throughout the world for governments, universities and private industry. Through my academic work and work as an engineering consultant, I have become familiar with the theoretical and practical hydrogeological issues concerning the contamination of groundwater. I have provided consulting services at several landfill sites in the United States.

2. I have reviewed the declaration of Thomas L. Watson, the groundwater chemistry data for the Puente Landfill site, the County Sanitation District No. 2 of Los Angeles County's Final Environmental Impact Report (November 1992), and the Stetson Engineers, Inc. report Engineers Report on the Puente Landfill (June 1993). Based on the data reviewed, I question the basis and disagree with several of the conclusions which Mr. Watson has drawn regarding groundwater conditions at the Puente Hills Landfill.

3. Mr. Watson's reliance on "outliers" as a basis for some of his conclusions is questionable. "Outliers" are analytical results which are much different from most of the other values in a data set. Outliers are data points that may be false detections. These point are typically excluded from the rest of the data. In the EPA a guidance document entitled "RCRA Ground-Water Monitoring Technical Enforcement Guidance Document" (September 1986), criteria are established to determine when outliers should be removed from the data set. Some of the reasons outliers occur can be:

- Data transcription errors;
- Sampling anomaly;
- Analytical errors; and
- Laboratory sample preparation.

Mr. Watson's reliance on metal detections in unfiltered samples above maximum concentration levels (MCLs) to indicate leachate migrations is questionable. It appears that the statements made by Mr. Watson regarding metal concentrations in downgradient wells are based on analytical results from unfiltered samples. Results of unfiltered samples are not always indicative of the quality of groundwater, due to the lack of the filtration of solids; MCLs are not generally applied to results of unfiltered samples. Metals are naturally occurring elements in the environment and in groundwater. Metals may be found at concentrations above MCLs in natural groundwater. In order to support any conclusions regarding the migration of metals in landfill leachate, the concentration of metals in the leachate, the concentration of metals in background groundwater, and the pH of groundwater must be considered.

4. Mr. Watson's conclusion that benzene, 1,2-dichloroethane, tetrachloroethylene, vinyl chloride, beryllium, cadmium, and thallium are leaching directly from the landfill into the groundwater below are not supported by the data. Analysis of filtered groundwater samples collected from background wells and wells located downgradient from the mitigation systems found the following:

- Benzene was detected at a concentration above the MCL in one

ground water sample collected from monitoring MW6 in 1990. This one time detection of benzene above the MCL was not corroborated by subsequent sampling and may have been the result of sampling or laboratory analysis error or a transcription error. Benzene was not detected in any offsite well samples collected throughout the sampling period. Benzene has been detected at low levels (below the MCL but above the instrument detection limit) in onsite well MW2A. This analytical evidence does not support the conclusion that benzene has migrated offsite and is a threat to the area's water supply.

- 1,2-Dichloroethane (1,2-DCA) was detected at or near the MCL downgradient of the Clay Barrier and Barrier 1. These concentrations suggest contact between landfill gases and groundwater but does not necessarily indicate the migration of leachate from the landfill.
- Tetrachloroethane (PCE) did not exceed the MCL in any sample collected from wells at or around the site. It was found above detection limits but below the MCL in one sample from offsite well MW13A in 1987. That detection was not reproduced in subsequent sampling. The analytical evidence does not support the conclusion that PCE has migrated offsite and is a threat to the area's water supply.
- Vinyl chloride was detected in a few wells at or near the MCL downgradient of Barrier 1. These relatively low concentrations suggest contact between landfill gases and groundwater and do not support the conclusion that leachate is migrating from the landfill.

- Beryllium was not detected in filtered samples collected from onsite or offsite wells above the instrument detection limit of 10 ppb. There is no current drinking water standard for beryllium. The data does not suggest that beryllium exists at significant concentrations in groundwater monitoring wells at the Puente Hills Landfill.
- Cadmium was detected at levels exceeding the MCL in samples collected from wells downgradient of Barrier 1, Barrier 2 and the Clay Barrier. However, cadmium concentrations in these wells appear to be within normal background concentrations for the site based on concentrations detected in background wells MW17A, MW19B. The detections of cadmium at levels consistent with site background concentrations and the lack of an acidic pH in groundwater samples do not support the conclusion that cadmium has leached from the landfill into groundwater and has breached the existing barriers.
- Thallium was not detected at concentrations above the instrument detection limit in filtered samples collected from onsite or offsite wells. There is no current drinking water standard for thallium. The analytical evidence does not support the conclusion that thallium is leaching from the landfill into groundwater.
- Review of water quality monitoring data from Barrier 3 extraction and monitor wells indicate that volatile organic compounds (VOCs) are present in monitoring wells near Barrier 3. However, analyses of many leachate indicators are negative, and indications are that the presence of low concentrations of VOCs in the vicinity of Barrier 3 are due to the contact of

landfill gases with groundwater.

The data reviewed do not suggest the presence of benzene, PCE, beryllium, or thallium at concentrations above MCLs. The data imply that with respect to benzene, 1,2-DCA, PCE, vinyl chloride, beryllium, cadmium, and thallium, that leachate has not escaped the subsurface barriers at the site.

5. Mr. Watson's conclusions that "Canyon 9" is showing signs of leachate migration because monitoring well M27B has detected concentrations of PCE, among other contaminants, at levels above the federal drinking water standards is not supported by the data.

Analysis of groundwater samples collected from background wells and wells located downgradient of Barrier 2 (in Canyon 9) found the following:

- Well M27B, located downgradient from Barrier 2 in Canyon 9, has shown one detection of PCE at a concentration above the instrument detection limit. That detection was below the MCL for PCE which is 5ppb. Prior and subsequent result for well M27B showed no detections of PCE above the instrument detection limits. Further, wells M29B located downgradient from Barrier 3 have shown no detected concentrations of PCE above instrument detection limits. The detection of PCE in one sample collected from well M27B and in no other wells downgradient of Barrier 2 does not support the conclusion that the composite liner in Canyon 9 has been breached.
- Other chemicals detected above MCLs in wells downgradient of Barrier 2 were also either outliers, or metals at site background concentrations. These data do not support the conclusion that the containment liner has been breached.

The analytical data in wells downgradient of Barrier 2 do not support the conclusion that the containment liner in Canyon 9 has been breached and leachate has migrated.

6. Mr. Watson states that benzene has been detected at three times above the State Drinking Water MCL, cadmium has been detected at levels thirty times above the MCL, and beryllium has been detected at levels ten times above the MCL. Data supporting these statements were not found upon review of the analytical chemistry. Chemical analyses of groundwater samples indicate a one-time detection of benzene at less than three times the MCL. The filtered data further indicate the presence of cadmium at no more than five times above the MCL, but not more than the background concentrations found in background monitoring wells. Beryllium has never been found above instrument detection limits in filtered samples at the site. In addition, there is no current MCL for beryllium. The instrument detection limit utilized during the analyses for beryllium is less than three times the MCL, which will not be initiated until 1994.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration was executed on October 22, 1993 at Whittier, California.

DAVID KEITH TODD, Ph.D

Professional Record
of
David Keith Todd, Consulting Engineer

Background:

David Keith Todd has served as an independent consulting engineer on a part-time basis in the field of water resources planning, development, and management since 1950. In 1978 he formed his own consulting firm--David Keith Todd Consulting Engineers, Inc.--in Berkeley, California, staffed with engineers and geologists. The company specializes in the planning, development, management, and protection of groundwater.

Dr. Todd also holds the position of Professor of Civil Engineering, Emeritus at the University of California, Berkeley. In recent years he taught all of the hydrology courses and was in charge of the graduate program in Water Resources Engineering. As a result of his extensive experience in teaching, research, and consulting, he has been associated with wide variety of water projects and issues. His numerous publications in the water field have earned him a national as well as an international reputation, particularly relating to underground water.

Address:

Office:

David Keith Todd
Consulting Engineers, Inc.
2914 Domingo Avenue
Berkeley, California 94705

Telephone: (510) 841-2091
Facsimile: (510) 841-8717

Education:

B.S., Civil Engineering, Purdue University, 1948
M.S., Meteorology, New York University, 1949
Ph.D., Civil Engineering, University of California, Berkeley, 1953

Professional Registration:

California - Registered Civil Engineer, Certificate No. 12000
Indiana - Registered Civil Engineer, Certificate No. 8560

Professional Affiliation:

Fellow, American Society of Civil Engineers
Fellow, American Geophysical Union
Member, American Water Works Association
Fellow, American Meteorological Association
Member, American Association for the Advancement of Science
Member, National Water Well Association and the
Association of Ground Water Scientists and Engineers
Member, American Institute of Hydrology
Certified Hydrologist-Ground Water, No. 630

Professional Recognition:

Member, Tau Beta Pi
Member, Chi Epsilon
Member, Sigma Xi
Postdoctoral Fellow, National Science Foundation, 1957-1958
Research Prize, American Society of Civil Engineers, 1960
American Men of Science, 10th edition, 1962
Who's Who in Engineering, 9th edition, 1964
Distinguished Alumnus, Purdue University, 1964
Senior Postdoctoral Fellow, National Science Foundation, 1964-1965
Centennial Professor, American University of Beirut, Lebanon, 1967
Visiting Professor, Universidad de Oriente, Puerta la Cruz, Venezuela, 1969-1972
Who's Who in America, 38th edition, 1974

Professional Experience:

1978-date:	President, David Keith Todd Consulting Engineers, Inc.
1950-date:	Instructor, Lecturer, Assistant Professor, Associate Professor, Professor, and Professor Emeritus of Civil Engineering, University of California, Berkeley.
1950-1970:	Research Engineer (part-time), Office of Research Services, University of California, Berkeley.
1954-1956:	Hydraulic Engineer (part-time), U.S. Geological Survey, Berkeley, California.
1948-1950:	Hydraulic Engineer, U.S. Bureau of Reclamation, Denver, Colorado.

Foreign Consulting Experience in Water Resources:

Europe--Studies of groundwater resources, development, and problems in Switzerland, England, France, Germany, Sweden, and Netherlands, 1957-1958 and 1964-1965.

Thailand, Philippines, and Japan--Consultant for lectures and study tour on development of groundwater resources, UNESCO, 1962.

India--Consultant on preparation of groundwater project proposal from the Government of India to the Special Fund, United Nations, 1963; organizer of Seminar on Artificial Recharge of Groundwater for the United Nations, Ahmedabad, India, 1984-1985.

Pakistan--Member of White House-Interior Scientific Team to review and recommend program for improvement of agriculture in the Indus River Plain, West Pakistan; primary emphasis was on feasibility of new wells to pump groundwater for lowering of the water table, leaching of salt from the soil, and increasing irrigation water supply, U.S. Department of the Interior, 1961-1963; Consultant on new well field for water supply of the City of Faisalabad, Engineering-Science, Arcadia, California, 1983.

Saudi Arabia--Consultant on planning and investigation of groundwater resources in Northern Saudi Arabia, Ralph M. Parsons Co., Los Angeles, 1965-1967.

Lebanon--Consultant on development of groundwater resources for water supply for the City of Beirut and on utilization of submarine springs discharging groundwater from limestone aquifers into the sea, Special Fund, United Nations, 1967.

Algeria--Consultant on groundwater resources development and utilization for economic development by irrigation and industry of three major areas in Algeria, General Electric Company, Santa Barbara, California, 1965-1970.

Libya--Consultant on groundwater resources development for irrigation, Joufrah Project near Hon, Philipp Holsmann AG, Frankfurt am Main, Germany, 1975-1977.

Nicaragua--Consultant on protection of the water supply system for the City of Managua against groundwater pollution, Empresa de Aguadora, Managua, Nicaragua, 1976-1978.

Barbados--Consultant on development plans for supplemental water supplies for irrigation and municipal uses, and on prevention of seawater intrusion, Stanley Associated Engineering, Ltd., Edmonton, Canada, 1977-1978.

Foreign Consulting Experience in Water Resources:

Jamaica--Consultant on plans for village water supplies throughout the island from wells and springs, Stanley Associates Engineering Ltd., Edmonton, Canada, 1978.

Turks and Caicos Islands--Consultant on groundwater development for water supplies on small coral limestone islands, Stanley Associates Engineering Ltd., Edmonton, Canada, 1980.

Peru--Consultant on groundwater development to augment water supply for City of Lima, Peru, Engineering-Science, Arcadia, California, 1980-1982.

Sri Lanka--Consultant on groundwater development in the Jaffna Area, Engineering-Science, Arcadia, California, 1982.

Chile--Consultant on groundwater development in the Atacama Desert, BHP Utah International, San Francisco, California, 1983-1984.

Australia--Invited lecturer on groundwater resources to provincial water agencies in Brisbane, Sydney, Melbourne, Adelaide, and Perth, 1986.

Consulting Clients in the United States on Water Resources:

1. Alza Corporation, Palo Alto, CA
2. Arid Tech, Inc., Manhattan Beach, CA
3. Bechtel Corporation, San Francisco, CA
4. BHP-Utah International, San Francisco, CA
5. BKK Corporation, City of Industry, CA
6. Bodega Bay Public Utility District, Bodega Bay, CA
7. Brelje & Race, Santa Rosa, CA
8. Browning-Ferris Industries, Houston, TX
9. California Department of Water Resources, Sacramento, CA
10. Case Western Reserve University, Cleveland, OH
11. Chemical Waste Management, Inc., San Jose, CA
12. Chevron Chemical Co., Richmond, CA
13. City and County of Honolulu, HI
14. City of Ceres, CA
15. City of Emeryville, CA
16. City of Healdsburg, CA
17. City of Livermore, CA
18. City of Los Angeles, CA
19. City of Mendocino, CA
20. City of Oakland, CA
21. City of San Bruno, CA
22. City of Santa Barbara, CA
23. City of Seattle, WA
24. Creegan and D'Angelo, San Jose, CA
25. Dames & Moore, San Francisco, CA
26. Dow Chemical Co., Pittsburg, CA
27. East Valley Water District, San Bernardino, CA
28. Engineering-Science, Inc., Arcadia, CA
29. FMC Corporation, Philadelphia, PA
30. Fox and Carskadon, San Mateo, CA
31. General Electric Company, Santa Barbara, CA
32. Geoconsultants, Inc., San Jose, CA
33. Geraghty & Miller, Inc., Plainview, NY
34. Goleta Water District, Goleta, CA
35. Granite Construction Co., Watsonville, CA
36. Great Oaks Water Co., San Jose, CA
37. Harding-Lawson Associates, Novato, CA
38. Harstad Associates, Inc., Seattle, WA
39. High Plains Underground Water Conservation District, Lubbock, TX
40. Monterey County Water Conservation District, Salinas, CA
41. Peter Kaldveer & Associates, Oakland, CA
42. Kennedy/Jenks/Chilton Engineers, San Francisco, CA
43. Kern County Water Agency, Bakersfield, CA

Consulting Clients in the United States on Water Resources:

44. Kirker Chapman & Associates, San Francisco, CA
45. Lawrence Livermore Laboratory, Livermore, CA
46. Leggette, Brashears & Graham, New York, NY
47. Lowry & Associates, Pleasanton, CA
48. McKesson Corporation, Dublin, CA
49. Miami Conservancy District, Dayton, OH
50. Northrop Corporation, Hawthorne, CA
51. Occidental Chemical Company, Lathrop, CA
52. Oceanic California, Inc., The Sea Ranch, CA
53. Office of Science and Technology, Executive Office of the President, Washington, D.C.
54. Rittenhouse-Zeman & Associates, Portland, OR
55. Sacramento Municipal Utility District, Sacramento, CA
56. San Francisco Bridge Company, San Francisco, CA
57. Santa Clara Valley Water District, San Jose, CA
58. Scotts Valley Water District, Scotts Valley, CA
59. Shoshone & Arapahoe Tribes, Fort Washakie, WY
60. Solvent Service, Inc., San Jose, CA
61. Steffen, Robertson & Kirsten, Lakewood, CO
62. Terra California, Walnut Creek, CA
63. Time Oil Co., Tacoma, WA
64. URS Corporation, San Bernardino, CA
65. United Nations, NY
66. U.S. Bureau of Reclamation, Sacramento, CA
67. U.S. Department of Justice, Washington, D.C.
68. U.S. Environmental Protection Agency, Washington, D.C.
69. University of California, Berkeley, CA
70. Weigmann & Rose International Corp., Richmond, CA
71. Winzler & Kelly, Santa Rosa, CA
72. Woodward-Clyde & Associates, Oakland, CA
73. Yucaipa Valley Water District, Yucaipa, CA

Publications

Author of more than 115 technical publications in the field of hydrology and water resources, with particular emphasis on groundwater resources (complete list of publications available upon request). Included are seven books:

(1) *Annotated Bibliography on Artificial Recharge of Groundwater through 1954*, U.S. Geological Survey Water-Supply Paper 1477, Government Printing Office, Washington, D.C., 115 pp., 1959.

(2) *Groundwater Hydrology*, John Wiley & Sons, Inc., New York, NY 336 pp., 1959, 2nd edition, 535 pp., 1980. This book has been used as a textbook by some 52 American universities, published in several international editions, and translated into Hindi, Malaysian, Persian, Portuguese, Spanish and Turkish.

(3) *The Water Encyclopedia* (Editor), Water Information Center, Inc., Port Washington, NY, 559 pp., 1970. Named an outstanding reference book of 1971 by *Library Journal* and an outstanding academic book of 1971 by *Choice Magazine*.

(4) *Water Publications of State Agencies* (Edited with G.J. Giefer), Water Information Center, Inc., Port Washington, NY, 350 pp., 1972; First Supplement, 189 pp., 1976.

(5) *Polluted Groundwater* (with D.E.O. McNulty), Water Information Center, Inc., Port Washington, NY, 179 pp., 1976.

(6) *Ground-Water Resources of the United States* (Compiler), Premier Press, Berkeley, CA, 749 pp., 1983.

(7) *The Water Encyclopedia* (Edited with F. van der Leeden and F.L. Troise), Lewis Publishers, Chelsea, MI, 808 pp., 1990.

PROOF OF SERVICE

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

I am employed in the County of Los Angeles, State of California. I am over the age of 18 and not a party to the within action; my business address is: 515 South Figueroa Street, Suite 1400, Los Angeles, California 90071.

On October 22, 1993, I served the foregoing document described as **DECLARATION OF DAVID KEITH TODD, PH.D., IN SUPPORT OF RESPONDENTS' REPLY TO HHIA PETITIONERS' OPPOSITION TO MOTION FOR ORDERS PROVIDING FOR CONTINUED OPERATION PENDING FURTHER PROCEEDINGS UNDER CEQA** on the interested parties in this action

[X] by placing [ ] the original [X] true copies thereof enclosed in sealed envelopes addressed as follows:

SEE ATTACHED MAILING LIST

[ ] (VIA FACSIMILE) I caused such document to be sent to the following facsimile telephone numbers: 714/975-8447 and 213/229-7520, as well as

[ ] (BY MAIL) I caused such envelope to be deposited in the mail at Los Angeles, California. The envelope was mailed with postage thereon fully prepaid.

I am "readily familiar" with the firm's practice of collection and processing correspondence for mailing. It is deposited with U.S. postal service on that same day in the ordinary course of business. I am aware that on motion of party served, service is presumed invalid of postal cancellation date or postage meter date is more than 1 day after the date deposit for mailing in affidavit.

[X] (BY PERSONAL SERVICE) I caused such envelope to be delivered by hand to the offices of the addressee.

Executed on October 22, 1993, at Los Angeles, California.

[X] (State) I declare under penalty of perjury under the laws of the State of California that the above is true and correct.

[ ] (Federal) I declare that I am employed in the office of a member of the bar of this Court at whose direction the service was made.

Laura M. Green
TYPE OR PRINT NAME

SIGNATURE

MAILING LIST

Ms. Marlene A. Fox
LAW OFFICES OF MARLENE A. FOX
2031 Orchard Drive
Suite 200
Santa Ana, California 92707

Joel S. Moskowitz, Esq.
Gary L. Justice, Esq.
Jeffrey D. Dintzer, Esq.
GIBSON, DUNN & CRUTCHER
333 South Grand Avenue
Los Angeles, California 90071

1994 Annual Water Quality Monitoring Report

WASTEWATER RECLAMATION
SOLID WASTE MANAGEMENT

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (310) 699-7411, FAX: (310) 695-6139

CHARLES W. CARRY
Chief Engineer and General Manager

March 1, 1995
File No. 31R-109.10B

Mr. Rodney Nelson
Head, Landfill Unit
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Dear Mr. Nelson:

Puente Hills Landfill
1994 Water Quality Monitoring Annual Report
Order No. 91-035
File No. 57-220, C.I. 2294

Enclosed please find ***1994 Water Quality Monitoring Annual Report for the Puente Hills Landfill***. If you have any questions regarding this report, please contact Mr. Chi-Chung Tang of this office.

I certify that all wastes deposited at the Puente Hills Landfill during 1994 were deposited in compliance with requirements of the Los Angeles Regional Water Quality Control Board (RWQCB), and no wastes were deposited outside of the boundaries of the waste management area as specified in the RWQCB's requirements. All laboratory analyses were conducted at laboratories certified for such analyses in accordance with current guideline procedures contained in Title 40, Code of Federal Regulations, Part 136, or as specified in the RWQCB's requirements.

I declare, under penalty of perjury, that to the best of my knowledge the foregoing statements are true, complete, and correct. Executed on the 1st day of March, 1995, at Whittier, California.

Very truly yours,

Charles W. Carry

Thomas J. LeBrun
Division Engineer
Solid Waste Management Department

TJL:CCT:leh
Enclosures

1994 WATER QUALITY MONITORING ANNUAL REPORT FOR THE PUENTE HILLS LANDFILL

VOLUME 1

PREPARED BY

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
1955 WORKMAN MILL ROAD
WHITTIER, CALIFORNIA

MARCH, 1995

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EXECUTIVE SUMMARY

This annual monitoring report summarizes water quality monitoring and waste disposal data at the Puente Hills Landfill for 1994. It is prepared in accordance with Waste Discharge Requirements (WDR) Order No. 91-035 and Monitoring and Reporting Program (MRP) No. 2294 issued by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB).

The County Sanitation Districts of Los Angeles County (Districts) own and operate the Puente Hills Landfill as a Class III municipal solid waste disposal facility. The site is located immediately east of the San Gabriel River Freeway (605) and immediately south of the Pomona Freeway (60) on Workman Mill Road in the City of Whittier. The landfill has been in operation since 1957. During 1994, the landfill received an average of approximately 11,000 tons of refuse per day. The Districts estimate that as of December 31, 1994, approximately 32.5 million tons of capacity remain at the Puente Hills Landfill. Condition Use Permit 92-250(4) expires on November 1, 2003, at which time approximately 10 years of additional capacity will remain.

The Puente Hills Landfill is located on the northern tip of the western Puente Hills. The western Puente Hills is bounded to the north by floodplain deposits, including San Jose Creek and the San Gabriel Groundwater Basin, and an isolated bedrock outcrop of the Pico Formation referred to as Avocado Heights; to the west by the Whittier Narrows and the San Gabriel River areas; and to the southwest by the Central Groundwater Basin. Regionally, groundwater in the San Gabriel Groundwater Basin flows from the east to west and exits the San Gabriel Groundwater Basin at the Whittier Narrows.

The Districts have installed three subsurface barrier and extraction systems and a composite liner system at the Puente Hills Landfill for the protection of groundwater quality. During 1994, the Districts submitted ***Puente Hills Landfill Water Quality Monitoring System Report For Compliance With RWQCB Order No. 93-062*** to comply with requirements in WDR Order No. 93-062, adopted by the RWQCB on September 27, 1993 to implement provisions in federal Resource Conservation and Recovery Act Subtitle D.

Water quality monitoring programs are in place to monitor surface water, unsaturated zone, and groundwater at the Puente Hills Landfill. In 1994, water samples were collected and analyzed pursuant to MRP No. 2294 and WDR Order No. 93-062. Water quality monitoring results indicate that the Puente Hills Landfill does not have any effects on groundwater quality downgradient of the site.

1994 WATER QUALITY MONITORING ANNUAL REPORT FOR THE PUENTE HILLS LANDFILL

1.0 INTRODUCTION

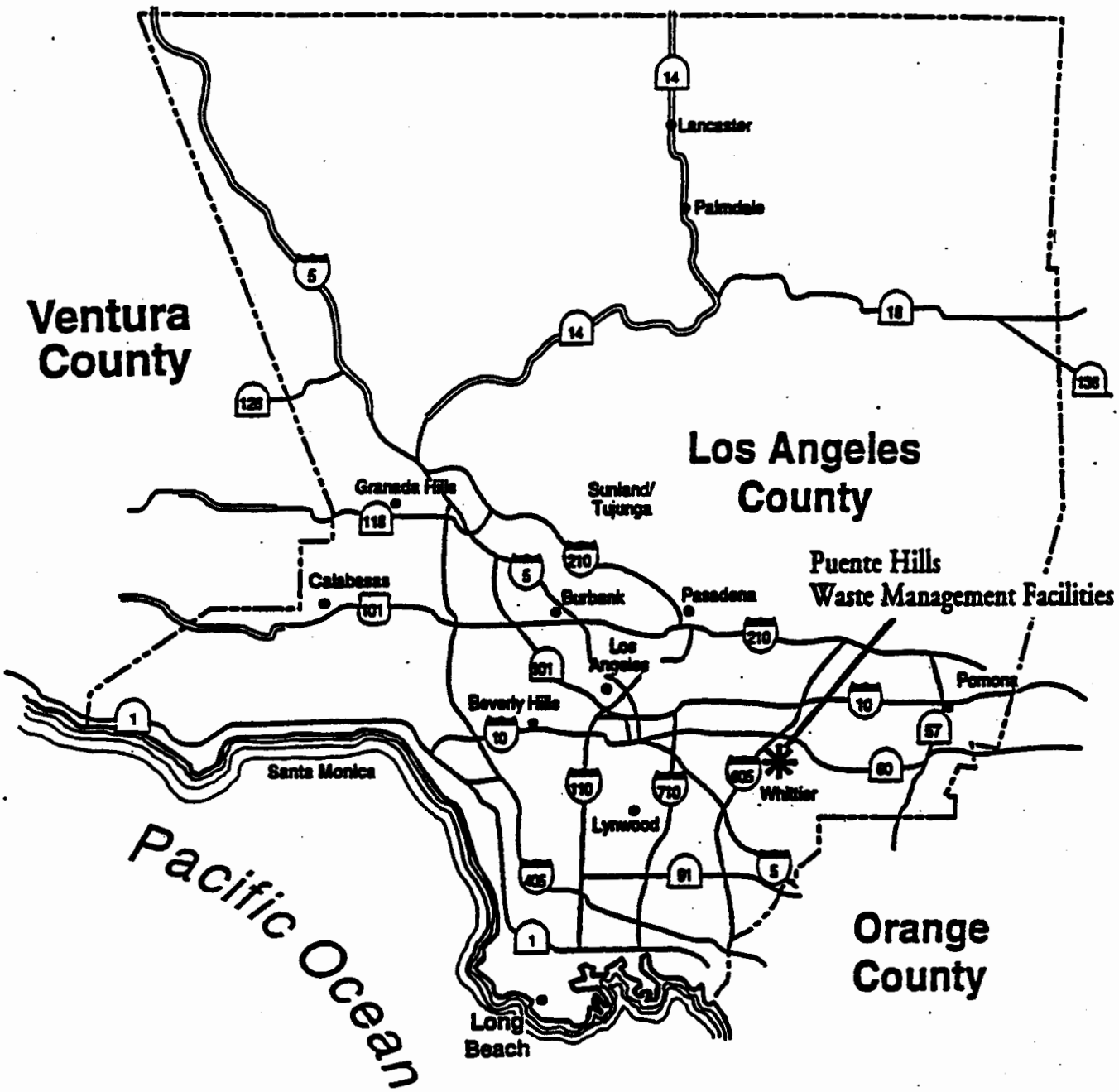
This report summarizes water quality conditions at the Puente Hills Landfill during 1994. It is prepared in accordance with Waste Discharge Requirements (WDR) Order No. 91-035 and Monitoring and Reporting Program (MRP) No. 2294 issued by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB). Included in this report are a description of the site, its geology and hydrogeology, discussions concerning construction activities affecting water quality monitoring, and all monitoring results for surface water, groundwater, and unsaturated zone monitoring facilities.

2.0 SITE DESCRIPTION

The Puente Hills Landfill is located immediately east of the San Gabriel River Freeway (605) and immediately south of the Pomona Freeway (60) on Workman Mill Road in Section 3, Township 2 south, Range 11 west, San Bernardino Meridian (Exhibit 1). The principal land acquisition for what is now known as the Puente Hills Landfill was completed in June of 1970 with the purchase of a 1,214 acre parcel of the Pellissier Ranch. This portion of the Pellissier Ranch included a landfill operation that began in 1957 by the San Jose Development Company. At the time of the 1970 purchase by the County Sanitation Districts of the Los Angeles County (Districts), approximately six million tons of waste had been placed on the property. Since June 1970, the Districts have remained the sole owner and operator of the Puente Hills Landfill.

The Puente Hills Landfill received approximately 3.4 million tons of solid waste during 1994. Exhibit 2 shows the permitted landfill boundaries and the 1994 disposal areas. Table 1 summarizes the monthly solid waste disposal rate. The 1994 average daily disposal rate is approximately 11,000 tons. The Districts estimate that as of December 31, 1994, approximately 32.5 million tons of capacity remain at the Puente Hills Landfill. The placement of refuse at the site is pursuant to the Conditional Use Permit issued by the Los Angeles County Regional Planning. Condition Use Permit 92-250(4) expires on November 1, 2003, at which time approximately 10 years of additional capacity will remain.

The Districts operate the Puente Hills Landfill as a Class III municipal solid waste disposal facility in accordance with Waste Discharge Requirements (WDR) issued by the Regional Water Quality Control Board, Los Angeles Region (RWQCB). The current WDR (Order No. 91-035) was issued on March 4, 1991. Groundwater monitoring requirements are specified in Monitoring and Reporting Program (MRP) No. 2294 issued on March 27, 1989 and most recently amended on November 1, 1993. The Districts implemented these programs from 1989 to the end of the third quarter, 1994.



Site Location

EXHIBIT 1

N

NOT TO SCALE

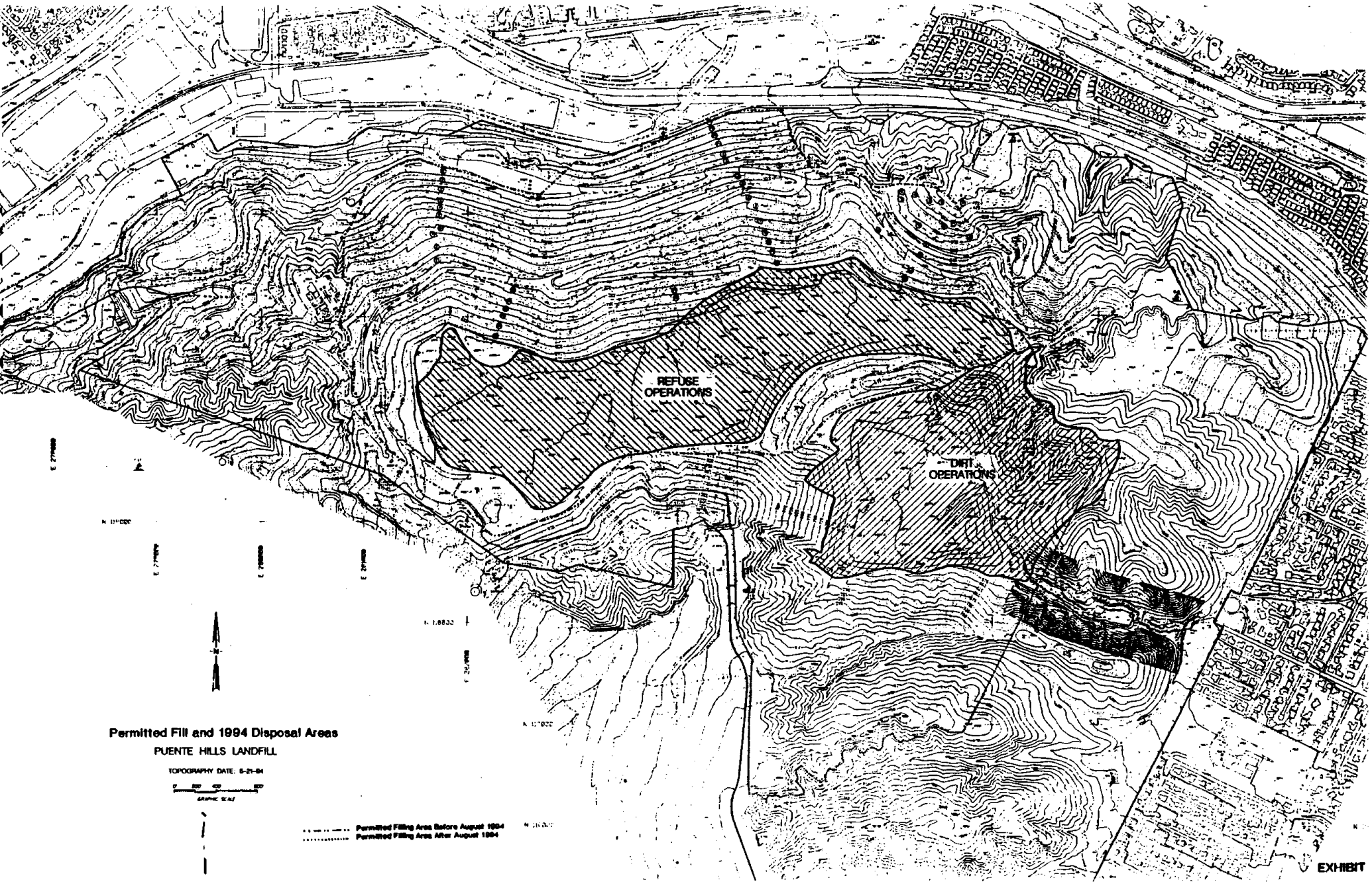

REFUSE OPERATIONS
DIRT OPERATIONS
Permitted Fill and 1994 Disposal Areas
PUENTE HILLS LANDFILL
TOPOGRAPHY DATE: 8-21-94
Permitted Filling Area Before August 1994
Permitted Filling Area After August 1994
EXHIBIT

Table 1

1994 Waste Disposal Summary

Month	Nonhazardous Waste (Tons)	Inert Waste (Tons)	Total (Tons)
January	290,261	214	290,475
February	283,866	91	283,957
March	331,130	114	331,244
April	309,106	153	309,259
May	289,294	134	289,428
June	290,098	96	290,194
July	266,839	71	266,910
August	290,016	110	290,126
September	274,047	228	274,275
October	273,539	178	273,717
November	265,779	131	265,910
December	260,420	199	260,619
Total	3,424,395	1,719	3,426,114

On September 27, 1993, the RWQCB adopted WDR Order No. 93-062 to implement provisions in federal Resource Conservation and Recovery Act Subtitle D. The Districts were required by Order No. 93-062 to submit a water quality monitoring report for the Puente Hills Landfill by August 9, 1994 to comply with the requirements in the Order. On August 9, 1994, the Districts submitted ***Puente Hills Landfill Water Quality Monitoring System Report For Compliance With RWQCB Order No. 93-062***. This report contains Districts proposed groundwater and surface water monitoring systems, a sampling and analysis program, lists of monitoring parameters and constituents of concern, proposed statistical methods for monitoring data analysis, and proposed concentration limits for all monitoring parameters and constituents of concern. These water quality monitoring programs are designed to meet both the federal Subtitle D (Title 40, Code of Federal Regulations, Part 258) and California Article 5 (Title 23, Code of California Regulations, Chapter 15) requirements. The Districts have been implementing the revised water quality monitoring programs since the fourth quarter of 1994.

3.0 GEOLOGY AND HYDROGEOLOGY

3.1 Regional Geology and Hydrogeology

The Puente Hills Landfill is located on the northern tip of the western Puente Hills. A regional geologic map and cross sections including the Puente Hills Landfill area were produced by the USGS in 1949 based on field mapping and logs of deep (3,000 to 6,000 feet) oil and gas wells in the area. The geologic map and cross sections generated by the USGS in 1949 characterized northwest dipping bedrock units of the Pico, Repetto and Puente Formations beneath the site. The geologic map also documented an isolated bedrock outcrop of the Pico Formation north of the present day Puente Hills Landfill. This area is referred to as Avocado Heights.

In February, 1994, the Districts commissioned a field surface mapping program to confirm the aerial extent and nature of the geologic materials which outcrop in the Avocado Heights area. The results of the field mapping are presented in Exhibit 3. The surface mapping indicated an area of alluvial materials directly north of the Puente Hills Landfill, referred to as the San Jose Gap. The alluvium was deposited by the San Jose Creek and by the small tributaries exiting the Puente Hills. North of the San Jose Gap, three outcrops of the Pico Formation were identified in the Avocado Heights area. The remainder of the area was characterized as undifferentiated mass wasting material, weathered bedrock, alluvium and colluvium. The occurrence of outcrops of Pico Formation in this area indicate that the Pico Formation bedrock may occur at a shallow depth beneath at least some of the Avocado Heights area. The occurrence of bedrock of the Pico Formation at and/or near the ground surface in the Avocado Heights area indicates that the area may exhibit lower permeabilities than the surrounding alluvial materials of San Jose Gap and adjacent groundwater basins.

The San Gabriel Groundwater Basin (Basin) is located to the north and west of the Puente Hills Landfill and the Puente Sub-basin is located to the east of the Puente Hills Landfill (Exhibit 4). Recharge to the Basin occurs by percolation of rainfall and stream flow, principally from the San Gabriel River, Rio Hondo and San Jose Creek. Artificial recharge also takes place in the Basin.

Qal | Qco | Qt

Qal – Unconsolidated alluvium. Gravelly and silty sands.

Qco – Unconsolidated colluvium. Mass wasting deposits of gravelly and silty sands, and in-situ soils derived from the Pico member of the Fernando Formation.

Qt – Unconsolidated terrace deposits. Silty sands.

Tfp

Tfp – Pico member of the Fernando Formation. Marine sandstones and siltstones with subordinate layers of conglomerate.

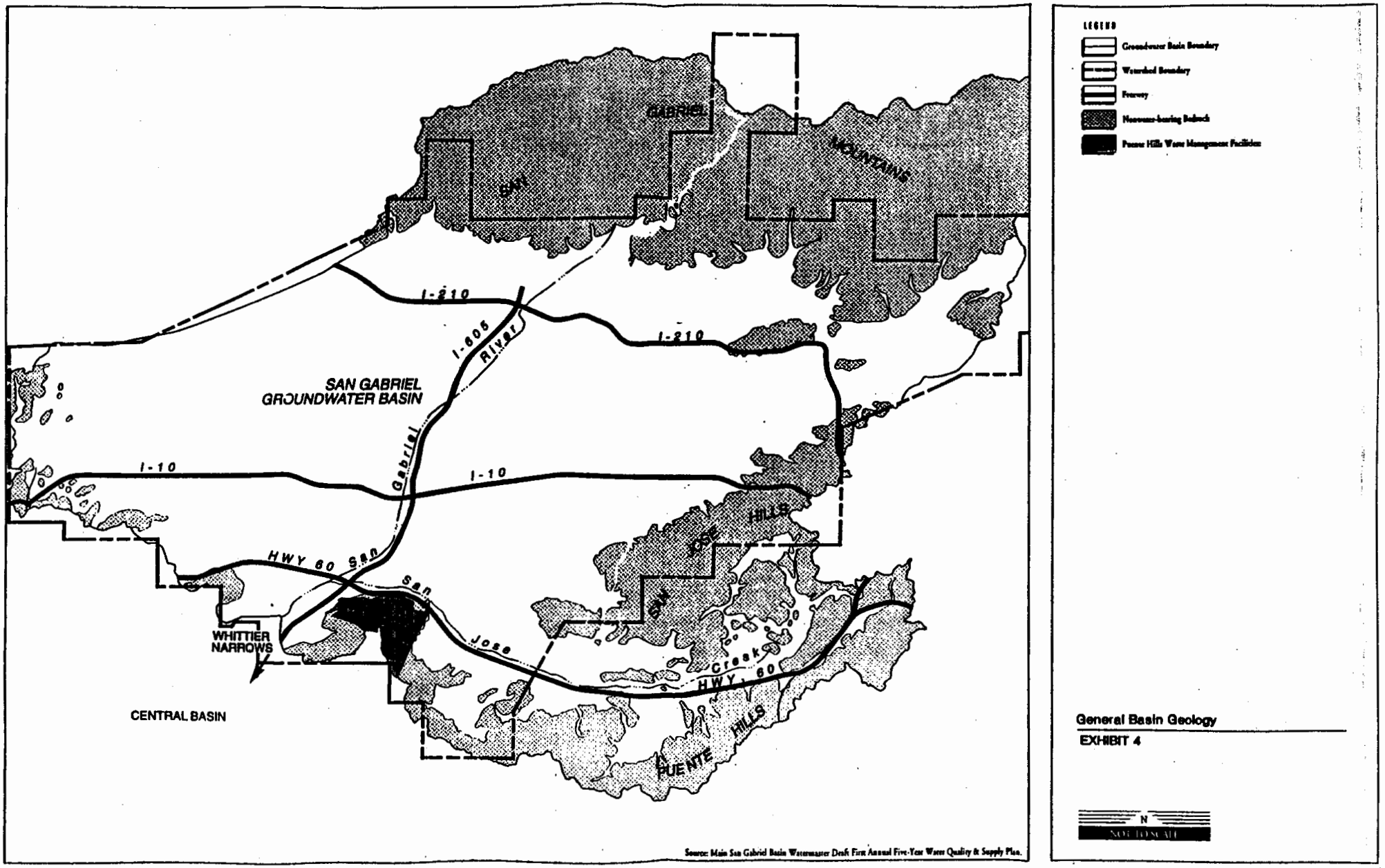
EXHIBIT 3

GEOLOGY OF SAN JOSE GAP

GeoLogic Associates

Geologists, Hydrogeologists, and Engineers

DRAWN BY:	DATE:	JOB NO.
RLG	2-4	9326



General Basin Geology

EXHIBIT 4

Basin discharge occurs by groundwater pumping and outflow at the Whittier Narrows area. Groundwater elevation contours in these adjacent groundwater basins are presented in Exhibit 5. Groundwater flows out of the Puente Sub-basin toward the northeast around the bedrock of the Puente Hills in the vicinity of the Puente Hills Landfill and then flows southwest toward the Whittier Narrows.

3.2 Site Geology and Hydrogeology

The Puente Hills Landfill is underlain by a thick sequence of north-northwest dipping sedimentary marine bedrock units. Unconsolidated surfical deposits which can be found overlying bedrock units at the site include terrace deposits, alluvium, colluvium, landslide deposits, and artificial fill. Alluvium is found along narrow canyons which incise the bedrock formations. Canyons oriented toward the east are found along the eastern portion of the site while canyons along the northern portion of the site are oriented toward the north. Three canyons existed in the Main Canyon area prior to landfilling as shown in Exhibit 6. As shown in Exhibit 6, Barriers 1, 2, and 3, installed along the north side of the site sever all historic drainages which contain landfill materials.

From oldest to youngest, the bedrock units found at the site consist of the Sycamore Canyon member of the Puente Formation, and the Repetto and Pico members of the Fernando Formation. The Sycamore Canyon member outcrops in the southern portion of the Eastern Canyons area (see Exhibit 7). The Sycamore Canyon member is composed of a conglomerate/siltstone unit, two sandstone units, and two conglomerate units. The Repetto member outcrops in the central portion of the Eastern Canyons and underlies the southern landfill materials of Canyon 9 and the Main Canyon (see Exhibit 7). The Repetto member is composed of two conglomerate units, a sandstone/siltstone unit and a siltstone unit. The Pico member occurs at the surface in the northern portion of the site and underlies landfill material in the northern portion of the Main Canyon and Canyon 9. The Pico member is made up of a conglomerate unit, a sandstone unit, an undifferentiated conglomerate, sandstone, and siltstone unit, and a siltstone unit.

Although the bedrock units are considered to be non-water bearing, small amounts of canyon water originate from seasonal rainfall permeation through the alluvium. The canyon water flow regime is delineated into three individual hydrogeologic microenvironments or subareas. These subareas are delineated on Exhibit 8.

Subarea 1 is located in the southeast corner of the site and is not contiguous to the present landfill development in the Main Canyon and Canyon 9. Canyon water is formed in the alluvial deposits in this region. This is due to the coarse nature of the alluvial soils and the anti-dip orientation of the drainage courses which result in limited percolation of direct precipitation of runoff into the bedrock. Subsurface outflow to the east of Subarea 1 appears minimal and is thought to be confined to the interconnection of onsite alluvium with adjoining offsite older alluvium/terrace deposits of the Puente Sub-basin.

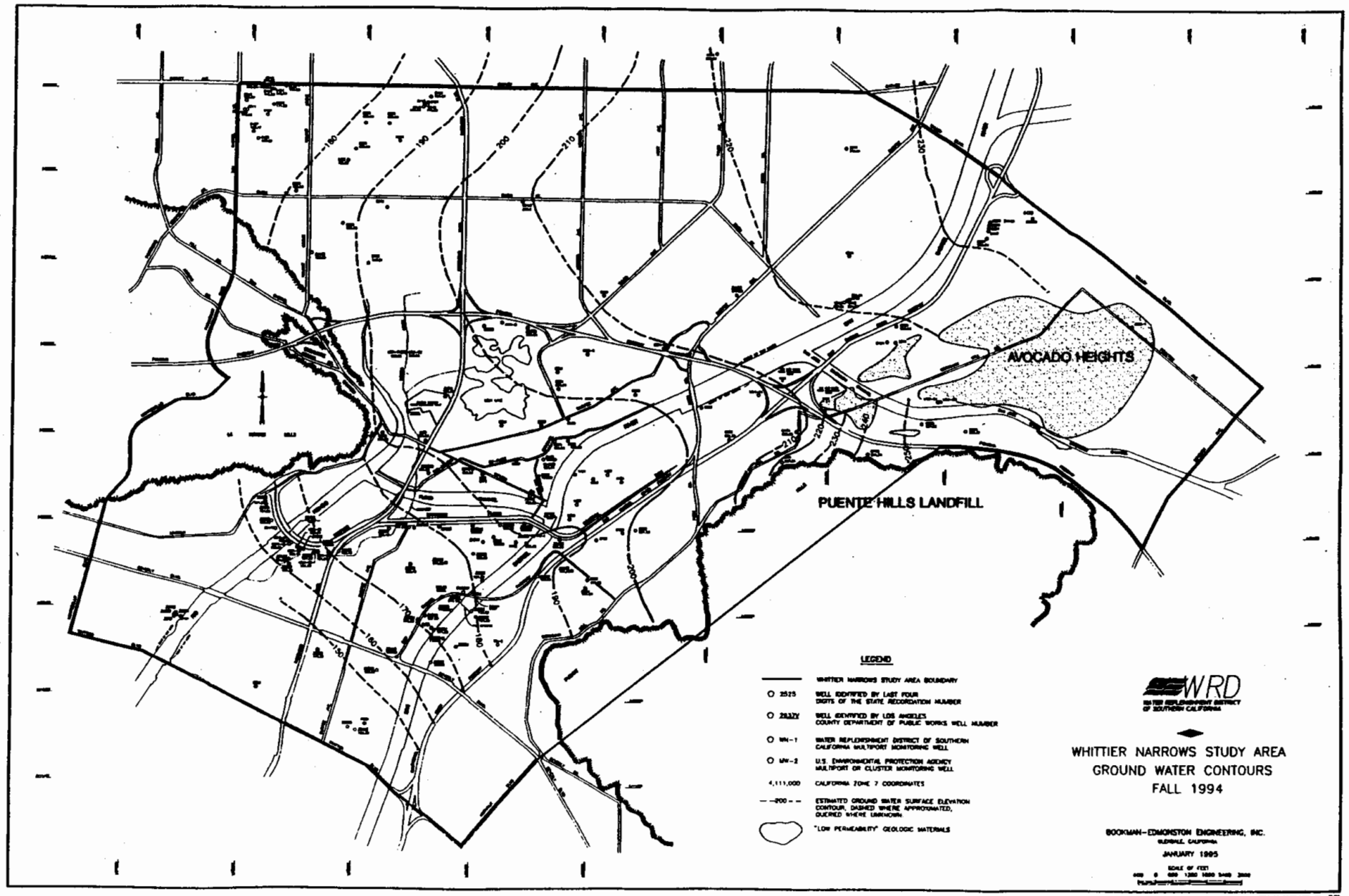
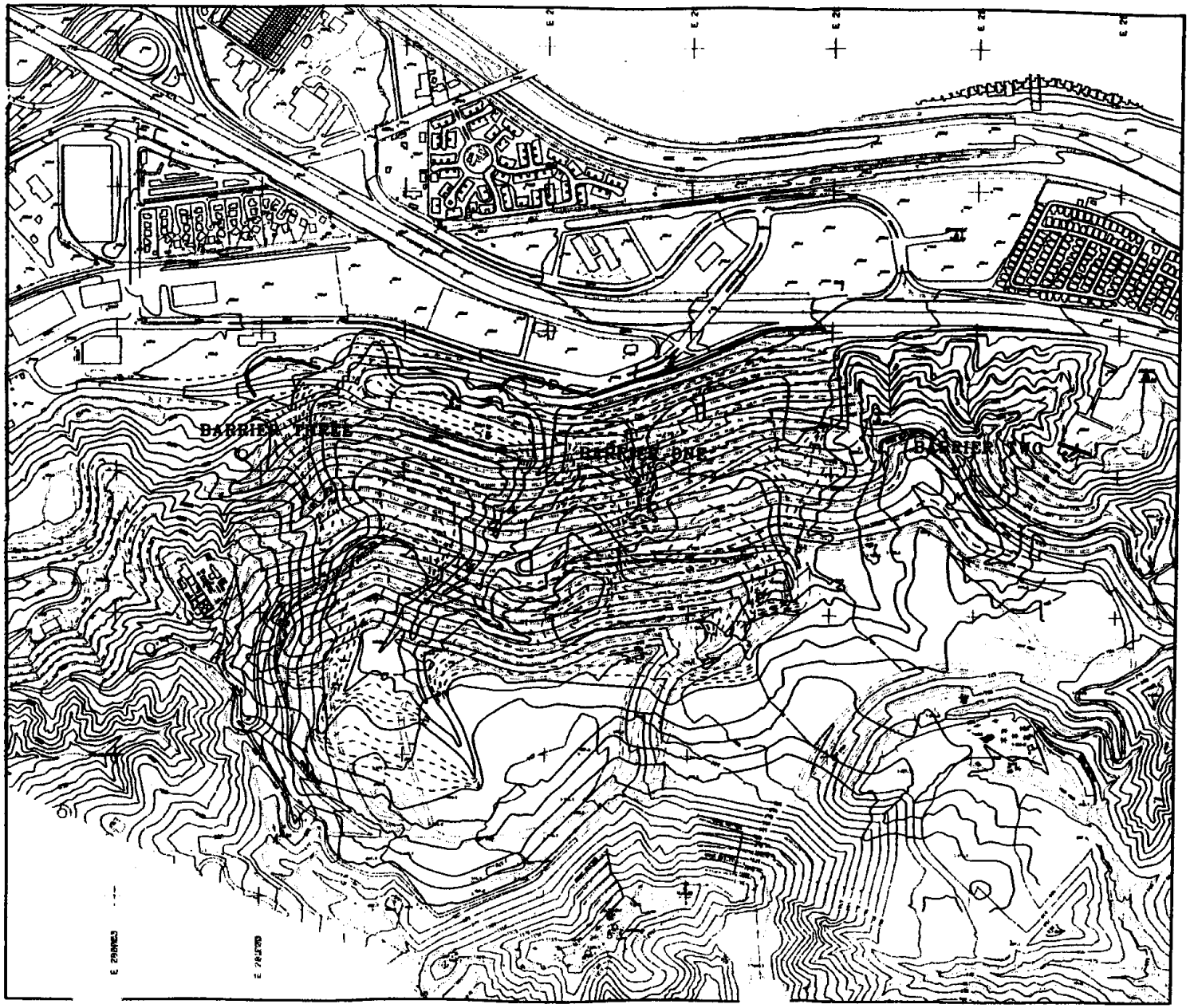

AVOCADO HEIGHTS
PUENTE HILLS LANDFILL
LEGEND
WHITTIER NARROWS STUDY AREA BOUNDARY
2525 WELL IDENTIFIED BY LAST FOUR DIGITS OF THE STATE RECORDATION NUMBER
2537V WELL IDENTIFIED BY LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS WELL NUMBER
WN-1 WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA MULTIPORT MONITORING WELL
MW-2 U.S. ENVIRONMENTAL PROTECTION AGENCY MULTIPORT OR CLUSTER MONITORING WELL
4,111,000 CALIFORNIA ZONE 7 COORDINATES
-200- ESTIMATED GROUND WATER SURFACE ELEVATION CONTOUR, DASHED WHERE APPROXIMATED, QUERIED WHERE UNKNOWN
"LOW PERMEABILITY" GEOLOGIC MATERIALS
WRD
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
WHITTIER NARROWS STUDY AREA
GROUND WATER CONTOURS
FALL 1994
BOOKMAN-EDMONSTON ENGINEERING, INC.
GLENDALE, CALIFORNIA
JANUARY 1995
SCALE OF FEET
400 0 600 1200 1800 2400 3000

EXHIBIT 5

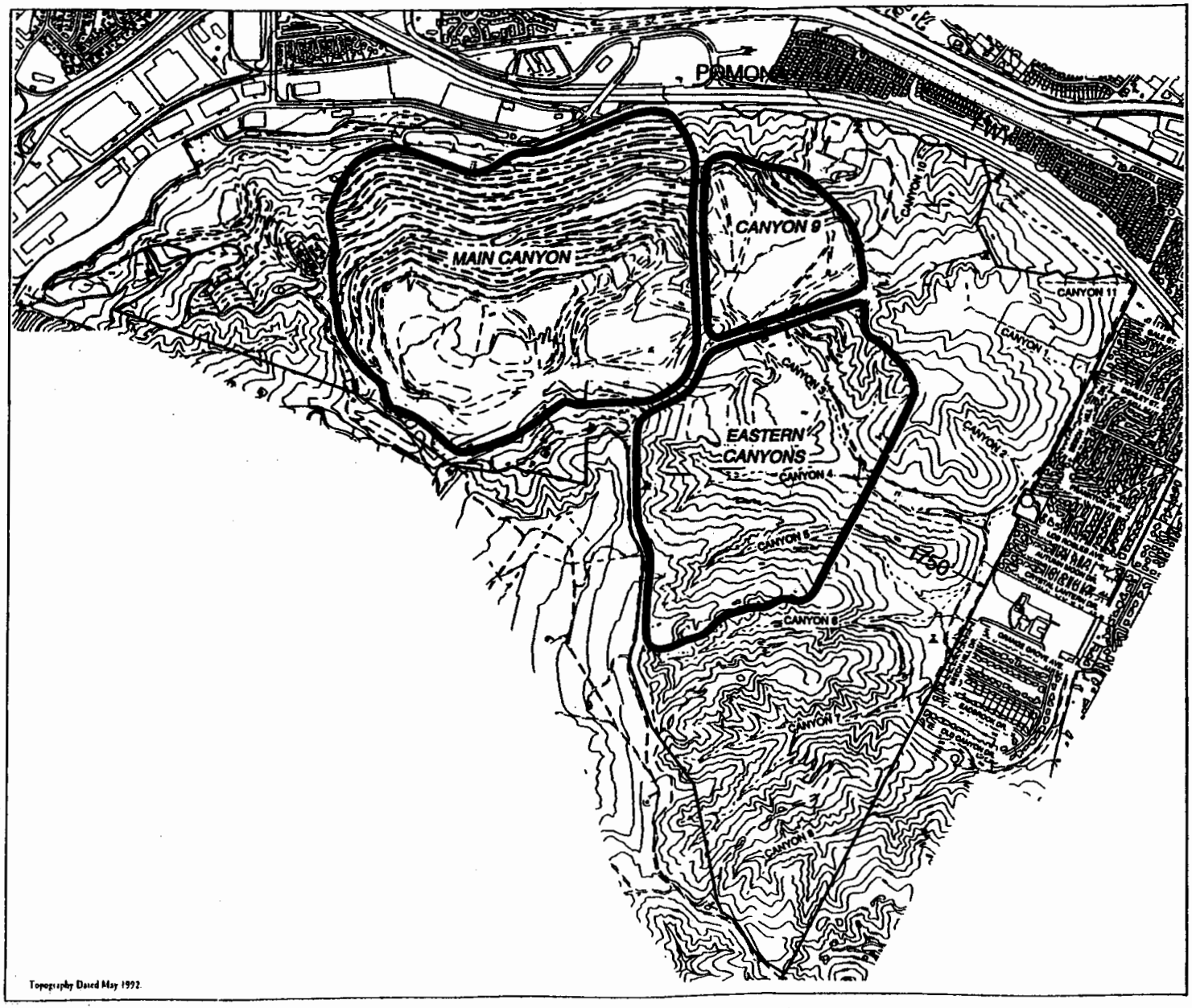


LEGEND

Existing Subsurface Barrier

Cut Topography

EXHIBIT 6



LEGEND

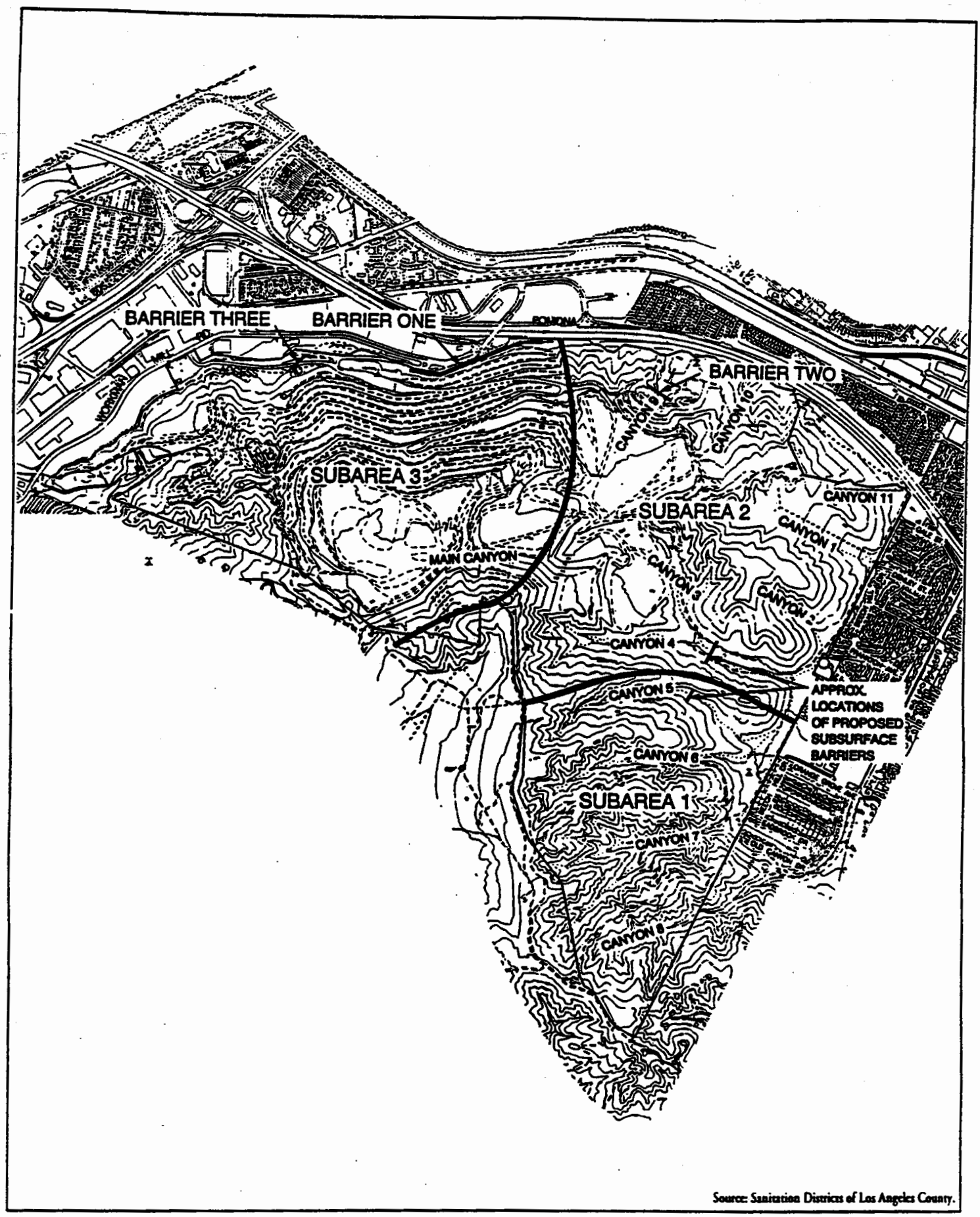
Property Boundary

Site Topography and Identified Site Areas

EXHIBIT 7

N

0 600 1200 FT.



Source: Sanitation Districts of Los Angeles County.

Hydrogeologic Subareas

EXHIBIT 8

Subarea 2 is located in the northeast area of the landfill site. This subarea is characterized by the absence of free water in the canyon alluvial deposits. Groundwater occurrence is confined to transmissive coarse sandstone and sandstone-conglomerate units in the bedrock. However, the transmissive sandstone strata are confined by extensive siltstone aquitards which effectively bar continuity with the San Gabriel Groundwater Basin. The degree of subsurface outflow, therefore, is limited by overlying siltstone strata which confine the bedrock water below the alluvial material of the San Gabriel Groundwater Basin. Canyon 9, a northern canyon in this subarea, is cut off by an approximately 190 foot long cement-bentonite subsurface barrier (Barrier 2).

Subarea 3 is located in the western portion of the landfill site. These canyon areas are characterized by very low permeability siltstone beds. Potential subsurface outflow in this area is limited to several canyons that exit toward the northern area of the site. Potential outflow from these canyons, however, has been controlled by the placement of two subsurface barriers. The westernmost canyon is cut off by an approximately 750 foot long cement-bentonite subsurface barrier (Barrier 3). The more eastern canyons are cut off by an approximately 2,400 foot long cement-bentonite subsurface barrier (Barrier 1). Canyon waters are removed by the extraction wells at both subsurface barriers and are discharged to the sewer system pursuant to industrial waste discharge permits. The locations of the three subsurface barriers are indicated on Exhibit 8.

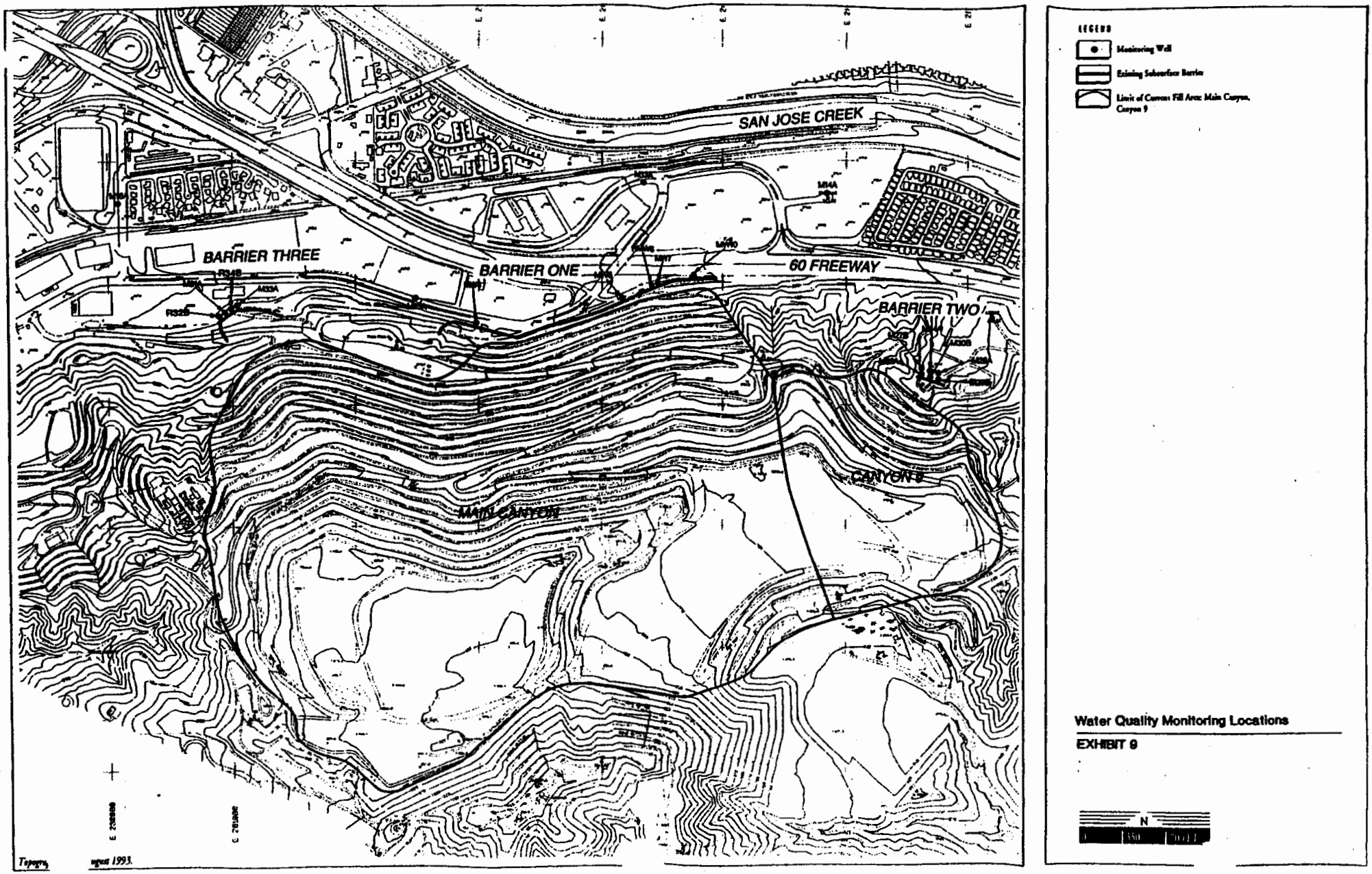
4.0 FACILITY CHANGES

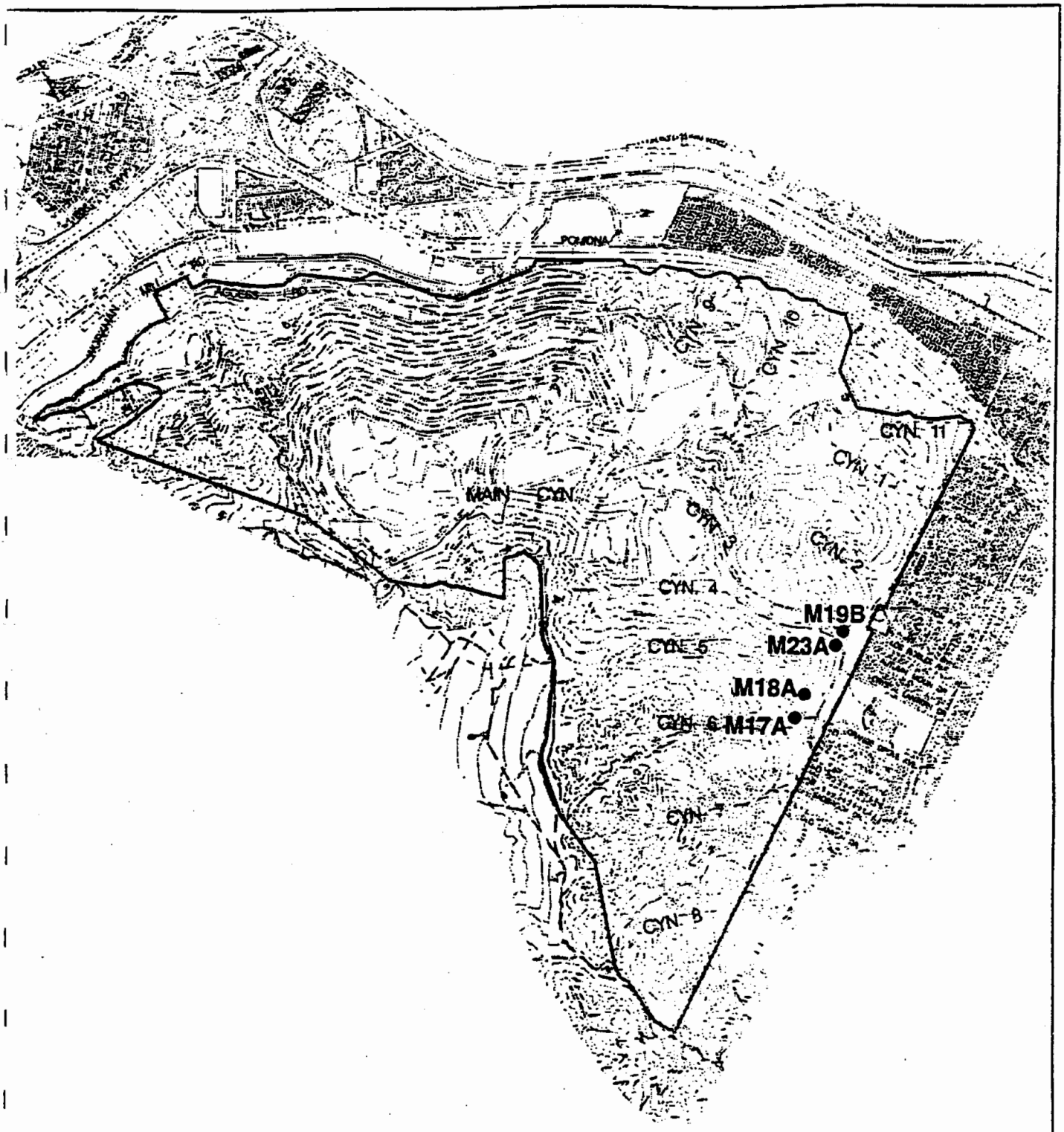
In 1994, the Districts replaced bedrock monitoring wells M32B and M34B. As described in ***1993 Water Quality Monitoring Annual Report for the Puente Hills Landfill***, these wells needed to be replaced due to inadequate construction noted by Districts' construction quality assurance consultant. The replacement wells, R32B and R34B, were installed in December 1994 by Zeiser Kling Consultants. A construction report will be submitted to the RWQCB in 1995.

5.0 WATER QUALITY MONITORING FACILITIES

During 1994, the following water quality monitoring facilities (see Exhibits 9 to 13 for locations) were monitored:

- Background monitoring wells (M17A, M18A, M19B, and M23A);
- Barrier 1 wells (extraction wells LE1, LE2, LE3, LE4, E08A, E09A, E10A, E11A, EX1, EX2, EX3, and EX4, and downgradient monitoring wells MW4, MW5, RMW6, MW7, and MW10);
- Barrier 2 wells (extraction wells E05A, E06A, and E07A, and downgradient monitoring wells M24A, M26A, M27B, M28A, M29B, and M30B);
- Barrier 3 wells (extraction wells E12A, E13A, E14A, and E15A, and downgradient monitoring wells M31A, R32B, M33A, and R34B);
- Unsaturated zone lysimeters (L2, L3, L4A, L5, L6, L7, L8, L9, and L10);
- Offsite monitoring wells (M13A, M14A, M15A, and M16A);


LEGEND
Monitoring Well
Existing Subsurface Barrier
Limit of Current Fill Area: Main Canyon, Canyon 9
SAN JOSE CREEK
BARRIER THREE
BARRIER ONE
60 FREEWAY
BARRIER TWO
CANYON 9
MAIN CANYON
Topogra
ugust 1993.
Water Quality Monitoring Locations
EXHIBIT 9
N
0
350



Source: Sanitation Districts of Los Angeles County

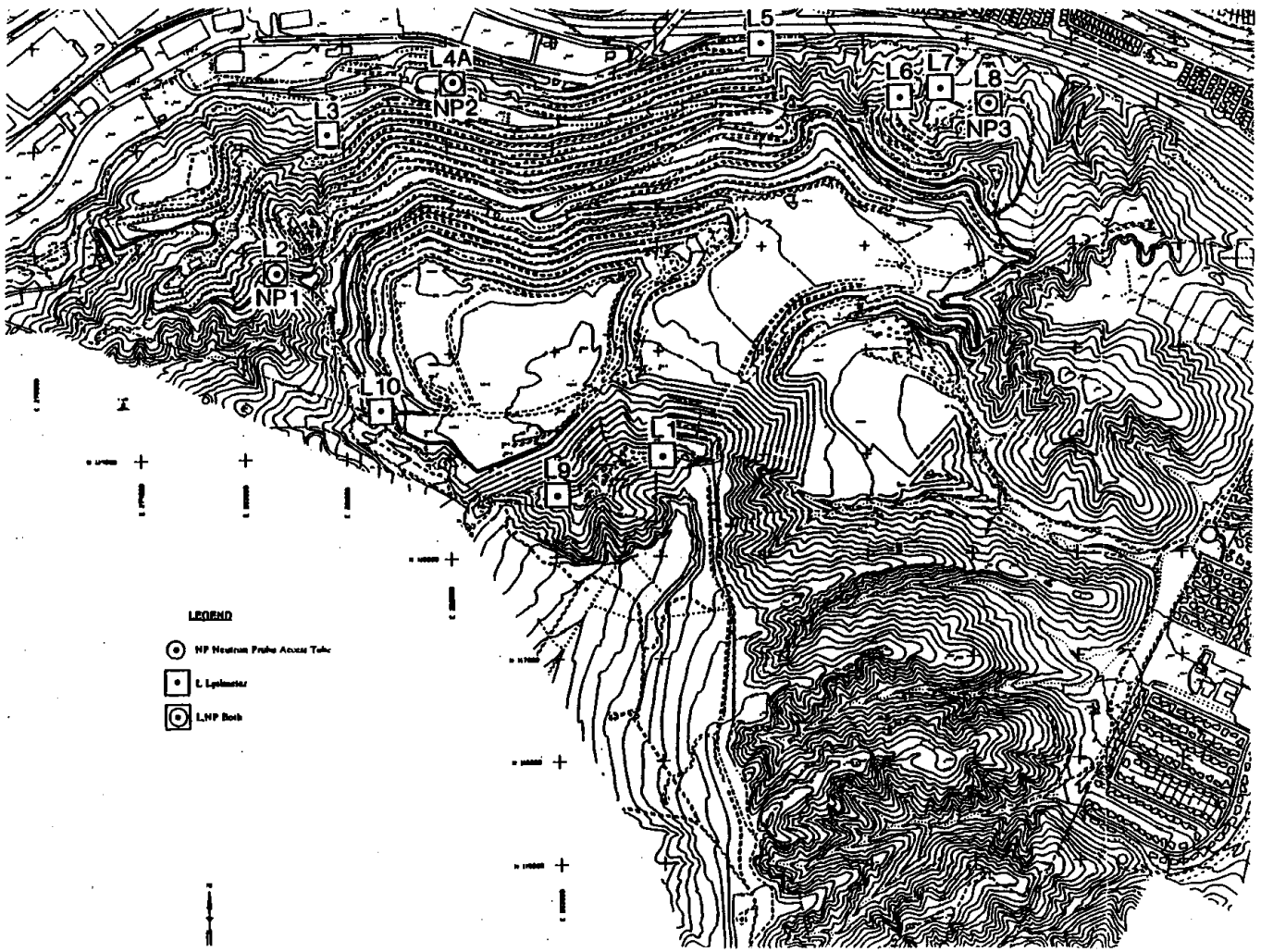
Background Water Quality Monitoring Locations

EXHIBIT 10

N

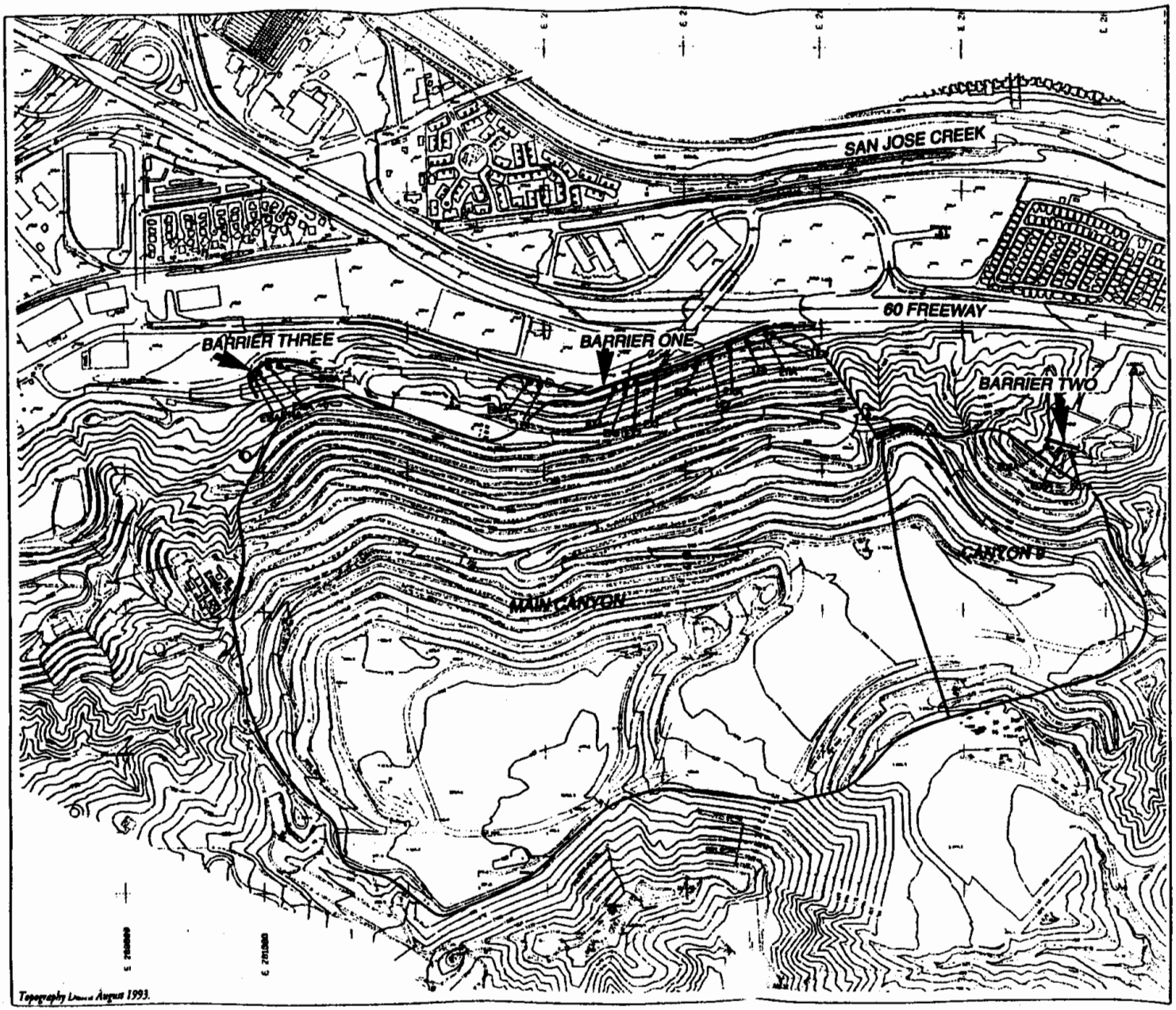
0 1000 2000'

COUNTY SANITATION DISTRICT NO. 2
OF LOS ANGELES COUNTY, CALIFORNIA
DRAWN G. LEON 22 OCT 93
DESIGNED S. AUSTIN 22 OCT 93
CHECKED
PUENTE HILLS LANDFILL
DRAINAGE SYSTEM AND SURFACE
WATER SAMPLING LOCATIONS
SURFACE WATER SAMPLING LOCATION
PUENTE HILLS LANDFILL
COUNTY SANITATION DISTRICTS OF L A COUNTY
WHITTIER, CA



Lysimeter and Neutron Probe Location Map

EXHIBIT 12



LEGEND

- Extraction Well
- Existing Subsurface Barrier
- Limit of Current Fill Area: Main Canyon, Canyon 9

Extraction Wells

EXHIBIT 13

N

- Canyon 9 liquid collection and removal system (LCRS);
- Runoff monitoring locations (SD1, SD2, SD3, SD4, SD5, SD9, SD10, SD11, and SDB).

5.1 Background Monitoring Wells

Wells M17A, M18A, M19B, and M23A are background monitoring wells located in three canyons to the east of the site. Wells M17A, M18A, and M23A monitor canyon alluvium waters which are geochemically similar to waters upgradient of Main Canyon and Canyon 9. Well M19B monitors background water quality in bedrock of the Repetto Formation.

These background monitoring wells were proposed by the Districts in 1987 to obtain background water quality. The selection of these background wells was based on the following criteria: (1) these wells were close to the landfill but hydraulically separate from, and beyond the influence of, the landfill; (2) these wells provided a reasonable indication of the effects of natural soils and strata on the subsurface water quality; and (3) at least four quarters of monitoring data were available from these wells which allowed for statistical derivation of groundwater quality protection standards. These selection criteria were based on the requirements in Title 23, Subchapter 15, Article 5, Section 2552 (b) of California Administrative Code, which stated: "For an existing waste management unit, the background concentration shall be determined from nearby wells beyond the influence of the unit." The use of these background wells was approved by the RWQCB.

5.2 Barrier 1 Wells

Composite samples of canyon waters extracted from twelve extraction wells (LE1, LE2, LE3, LE4, E08A, E09A, E10A, E11A, EX1, EX2, EX3, and EX4) located immediately upgradient of Barrier 1 were collected and analyzed in 1994. The canyon water extraction system upgradient of Barrier 1 automatically engages submersible pumps to remove any canyon waters built-up against the barrier. Results of analyses performed on the composite samples are included in this report and designated as LE-. Table 2 summarizes the quantities of canyon waters extracted from Barrier 1 extraction wells.

Barrier 1 downgradient wells include wells MW4, MW5, RMW6, MW7, and MW10. Wells MW4, MW5, MW7, and MW10 wells are situated in alluvium and RMW6 is in the alluvium and weathered Pico Formation bedrock. Very little or no water was present in MW4, MW5, MW7, and MW10 during 1994. Wells MW4, MW5, RMW6, and MW10 were proposed by the Districts as point of compliance wells for compliance with RWQCB's Order No. 93-062.

Table 2

1994 Canyon Water and LCRS Collection Rates (gallons)

Month	Barrier 1	Barrier 3	Canyon 9 LCRS
January	455,589	604,762	3,979
February	271,681	525,489	6,100
March	336,922	565,954	9,248
April	285,131	549,438	8,960
May	314,924	553,917	7,266
June	232,170	507,743	4,470
July	215,681	564,651	4,106
August	211,680	405,916	9,812
September	125,654	307,493	7,863
October	260,289	365,005	7,861
November	282,058	484,740	7,677
December	223,135	453,913	5,144

5.3 Barrier 2 Wells

Extraction wells E05A, E06A, and E07A are located in the deepest portion of the alluvium downgradient of the Canyon 9 fill area. A composite liner underlies the entire Canyon 9 area. The three extraction wells have been dry since their installation in 1988.

Wells M24A, M26A, M27B, M28A, M29B, and M30B are situated in alluvium and bedrock of the Pico Formation at the mouth of Canyon 9. Very little or no canyon water has been observed in alluvial monitoring wells M26A, M28A, and M30B during 1994. Water was observed in the three bedrock monitoring wells M24A, M27B, and M29B. These three wells were proposed by the Districts to be point of compliance wells for compliance with RWQCB's Order No. 93-062. In December 1994, these wells were sampled and analyzed for the monitoring parameters listed in ***Puente Hills Landfill Water Quality Monitoring System Report For Compliance With RWQCB Order No. 93-062***.

5.4 Barrier 3 Wells

Composite samples of canyon waters extracted from four extraction wells (E12A, E13A, E14A, and E15A) located immediately upgradient of Barrier 3 were analyzed during 1994. The canyon water extraction system upgradient of Barrier 3 automatically engages submersible pumps to remove any canyon waters built-up against the barrier. Results of analyses performed on the composite samples (designated as EW3-) are included in this report. The quantities of canyon water extracted from Barrier 3 extraction wells are summarized in Table 2.

Wells M31A, R32B, M33A, and R34B are situated downgradient of Barrier 3. Wells M31A and M33A are completed in alluvium, while replacement bedrock monitoring wells R32B and R34B are completed in bedrock of the Pico Formation. The replacement bedrock monitoring wells were installed in December 1994 by Zeiser Kling Consultants and were sampled once in 1994 for the monitoring parameters listed in ***Puente Hills Landfill Water Quality Monitoring System Report For Compliance With RWQCB Order No. 93-062***. All four wells were proposed by the Districts to be point of compliance wells for compliance with RWQCB's Order No. 93-062.

5.5 Unsaturated Zone Lysimeters

An unsaturated zone monitoring system consisting of ten lysimeters (L1, L2, L3, L4A, L5, L6, L7, L8, L9, and L10) and three neutron probe access tubes was installed in 1987 at the Puente Hills Landfill. The system was designed to provide early warning of potential migration of contaminants in the unsaturated zone. Lysimeter L1 was vandalized in 1991. No water had ever been detected in this lysimeter, nor was it a point of compliance. Therefore this lysimeter was not replaced. No water was collected by Lysimeters L2, L4A, L7, L8, L9, and L10 during 1994. Lysimeters L3, L5, and L6 occasionally collected sufficient volume of samples for metals and volatile organic compounds analyses in 1994.

Lysimeters L2, L3, and L5 are listed on MRP No. 2294 as points of compliance. Lysimeter L3 and L5 are located downgradient of the Main Canyon area. Lysimeter L2 is located immediately outside the western region of the main fill area; it has not collected any water since installation.

The Districts proposed, in ***Puente Hills Landfill Water Quality Monitoring System Report For Compliance With RWQCB Order No. 93-062,*** to cease monitoring lysimeters in the Main Canyon and Canyon 9 areas. The rationale behind this proposal was (1) there is no background water quality for the unsaturated zone monitoring system (existing background lysimeters have been dry); and (2) the only lysimeters that yield sufficient water for sampling are all located immediately upgradient of the saturated zone monitoring system. Any contaminants migrating in the unsaturated zone will eventually be collected by the extraction system upgradient of the subsurface barriers.

5.6 Offsite Monitoring Wells

Four offsite monitoring wells (M13A, M14A, M15A, and M16A) were installed in 1987 to obtain information about offsite groundwater quality. These wells are not specified by the RWQCB to be points of compliance. However, the Districts monitor these wells occasionally to determine groundwater quality around the Puente Hills Landfill. Hydraulically, wells M13A and M14A are located upgradient of the Puente Hills Landfill, while wells M15A and M16A are located downgradient of the Puente Hills Landfill.

5.7 Canyon 9 Liquid Collection And Removal System

A liquid collection and removal system (LCRS) was installed as part of the composite liner system in Canyon 9 of the Puente Hills Landfill. Water collected from LCRS was air stripped before being discharged to the sewer system pursuant to an industrial waste discharge permit. Quantities of water collected from the LCRS during 1994 are summarized in Table 2.

The LCRS was sampled on a quarterly basis in 1994. However, according to Order No. 93-062, the Districts have modified the sampling frequency for the LCRS liquid to semi-annually for analyses of all constituents of concern beginning in October 1994. Semi-annual sampling of LCRS liquid is scheduled in October and April of each year. The purpose of this sampling is to determine the list of constituents of concern for monitoring wells downgradient of the lined Canyon 9, i.e., wells M24A, M27B, and M29B.

5.8 Runoff Monitoring Locations

The Puente Hills Landfill drainage system consists of graded benches, drainage channels, debris basins, and downdrains. The surface water drainage system minimizes surface water infiltration, ponding, and slope erosion by providing a means for rainfall runoff to be diverted from the front face and top deck of the landfill and channeled into desilting basins, and eventually, into

storm drains. The surface water drainage system is depicted on Exhibit 11. The surface water monitoring system consists of nine monitoring locations, one downgradient of each drainage area, where runoff samples can be collected. Of these nine monitoring locations, one (SDB) background monitoring point collects runoff not contacted by landfill operations. The Main Canyon area has six downgradient monitoring points (SD1, SD2, SD3, SD4, SD5, and SD10). The Canyon 9 area has one downgradient monitoring location (SD9). The Eastern Canyons expansion area currently has one downgradient monitoring location (SD11).

In 1992, the Districts prepared a Storm Water Pollution Prevention Plan (SWPPP) for the Puente Hills Landfill pursuant to the California General Permit requirements for compliance with the National Pollutant Discharge Elimination System (NPDES) rules. The SWPPP calls for the use of best management practices to minimize the potential for runoff contamination by landfill operations. To fulfill the requirements of the General Permit and to determine the effectiveness of the SWPPP, the Districts developed a runoff monitoring program in December 1992. The implementation of this program began in 1993 and continued during 1994. The runoff monitoring program was also designed to comply with the requirements in Title 23, Chapter 15, Article 5 of the California Code of Regulations (revised in 1991). Two to three sets of samples were collected from these monitoring locations in 1994.

6.0 WATER QUALITY

Water quality monitoring results for 1994 are presented in the Appendix of this report. Tabulated monitoring data, and graphs for constituents which were analyzed during three or more monitoring periods throughout the year and were detected above the detection limit for at least one of those periods, are included and grouped by locations as follows:

- Background monitoring wells (M17A, M18A, M19B, and M23A);
- Barrier 1 downgradient monitoring wells (MW4, MW5, RMW6, and MW7);
- Barrier 2 downgradient monitoring wells (M24A, M27B, and M29B);
- Barrier 3 downgradient monitoring wells (M31A, R32B, M33A, and R34B);
- Offsite monitoring wells (M13A, M14A, M15A, and M16A);
- Unsaturated zone lysimeters (L3, L5, and L6);
- Runoff monitoring locations (SD1, SD2, SD3, SD4, SD5, SD9, SD10, SD11, and SDB);
- Barrier 1 extraction wells composite (LE-);
- Barrier 3 extraction wells composite (EW3-);
- Canyon 9 liquid collection and removal system (LCRS);
- Equipment and trip blanks (BLNK or EQIP).

A computer diskette containing all monitoring results collected in 1994 is included in the transmittal of this report to the RWQCB in compliance with the WDR. Incomplete analyses were the result of insufficient sample volume.

Water quality parameters are discussed according to the following categories: (1) general parameters (pH, conductivity, suspended solids, total dissolved solids, hardness, cations, anions, and organic matter); (2) field filtered metals; (3) volatile organic compounds; and (4) base neutral/acid extractable compounds and pesticides. Data are analyzed to identify statistical outliers which may be due to sampling anomalies or laboratory errors. Outliers are included in this report and are presented in tabular and graphical data summary, but are excluded from further evaluation or statistical analyses.

The Districts compared monitoring results to applicable groundwater quality protection standards (GWPS) in the WDR. WDR specified GWPS may not reflect the full range of background water quality conditions. Downgradient levels are therefore also compared against background levels determined from site background wells and from experimental studies conducted by the Districts (see Section 6.2 below). For some monitored water quality parameters, there are maximum contaminant levels (MCLs) which are regulatory limits set for constituents in drinking water. MCLs are based on conservative exposure assumptions and public health risks. MCLs are convenient, although very conservative, regulatory levels for use in a landfill monitoring plan. The naturally occurring canyon water at the Puente Hills Landfill is not suitable as a drinking water supply source based on quantity (non-water bearing) and quality considerations.

6.1 San Gabriel Groundwater Basin Water Quality

Water in the San Gabriel Groundwater Basin (Basin) is used extensively for residential, industrial, and agricultural purposes. The water is essentially calcium bicarbonate rich, but local variations do exist. These variations can be attributed to industrial, agricultural and other land uses. General ground water quality in the Basin is considered good. However, local groundwater problems have been identified.

An increasing trend in total dissolved solids (TDS) in the Basin has been observed over the past several decades. The increase can be related to factors which include agricultural and industrial discharges. Another problem has been nitrate contamination. Areas of groundwater in the Basin have contained levels of nitrate in exceedance of the drinking water standards. Although no specific sources have been identified, septic tank leachate and increased fertilizer usage are thought to be among the many speculated sources.

Groundwater contaminated with volatile organic compounds (VOCs) was first detected in the Basin during environmental monitoring activities conducted by Aerojet Electrosystems near Azusa. Trichloroethylene (TCE) was detected in relatively large quantities in one well, and as a result, an intensive water quality monitoring program in wells not associated with the Districts was initiated. Monitoring results revealed four plumes of contamination by volatile organic compounds consisting of TCE, tetrachloroethylene (PCE), and carbon tetrachloride (CTC), and prompted the placement of the Basin on the United States Environmental Protection Agency (EPA) Superfund list in 1984. The four areas were defined based on water quality data available at the time of listing. Subsequent water quality sampling has shown that VOC contamination above drinking water standards is

pervasive throughout the entire Basin. EPA currently manages all of the San Gabriel Groundwater Basin as one project with six operable units (Whittier Narrows, Baldwin Park, Richwood, El Monte, South El Monte, and Puente Valley) under its Remedial Investigation (RI) program. To date, more than 100 wells have been found to have varying concentrations of PCE, TCE, and CTC and other organic chemicals. These compounds are commonly used degreasers and cleaning solvents. The EPA has focused its evaluation of the groundwater contamination on the six most commonly occurring VOCs in the Basin groundwater: 1,1,1-trichloroethane (TCA), 1,1-dichloroethylene, 1,2-dichloroethane, TCE, PCE, and CTC although over 200 other organic compounds have also been monitored by EPA. Industrial activities have been identified by EPA to be the sources of the VOC contamination in the Basin. VOCs are present at levels exceeding the drinking water standards both hydraulically upgradient and downgradient of the Puente Hills Landfill.

6.2 Site Background Water Quality

Onsite canyon water is uniformly poor in quality primarily due to contact with naturally occurring mineral salts and organics inherent to marine formations of the region. Mineral salts of calcium, magnesium, and sodium elevate the dissolved solids level and produce a water that is characteristically "hard." Organic residues from marine detritus contribute to elevated COD and oil and grease levels of the water.

The ranges of background water quality conditions at the Puente Hills Landfill are determined by monitoring of four wells (M17A, M18A, M19B, and M23A) not affected by landfill operations and from results of two experimental studies conducted by the Districts. Background water quality could vary spatially and seasonally as a result of diverse hydrologic and geochemical processes at the Puente Hills Landfill. Hydrologic processes include the seasonal recharge and drainage of alluvial and bedrock formations and the gradual movement and blending of formation waters. Geochemical processes comprise a variety of reactions within rocks and sediments including simple solubilization of salts, equilibria and ion exchange phenomena, irreversible weathering processes, interactions with atmospheric and soil gases, and oxidation or reduction of solid and soluble species. Experimental studies are useful for exploring the variability of background water quality and supplementing background water quality information obtained from background wells.

During 1984, the Districts pioneered a study to determine the effect of native sediments on background water quality at the Puente Hills Landfill. Four samples of native soils and bedrock were obtained from areas of the Puente Hills Landfill not affected by waste disposal operations. These samples were extracted with deionized water for approximately three months, which was the amount of time required to establish equilibrium conditions as defined by conductivity. The water samples were then analyzed for major water quality parameters. The results (for three samples only; the fourth sample discarded because of excessive solids) indicated elevated levels of total dissolved solids (TDS), oil and grease, and organic matter. The presence of these constituents reflects the marine origin of the formations at the site. The residual salinity in the formations is evidenced by the high TDS and conductivity levels. Elevated levels of oil and grease and organic matter identified in the samples are due to the breakdown of marine detritus which was deposited in the formations.

A comprehensive mineral leaching study, which was an extension of the 1984 soil equilibrium study, was conducted from 1989 to 1993 to further augment monitoring data collected from the background monitoring wells and the 1984 soil equilibrium study. The mineral leaching study for the Puente Hills Landfill was initiated in 1989 using soil samples collected between 1987 and 1989. Approximately 40 laboratory reactors containing representative soil samples from nine locations at the Puente Hills Landfill were set up. The samples were saturated with deionized water for a period of a few months to a few years. The water was periodically monitored for conductivity until equilibrium conditions, indicated by relatively constant conductivity readings, were established in the reactors. After equilibrium conditions were reached, the water was filtered with a 0.45-micron filter and analyzed.

Results from the mineral leaching study are summarized in Table 3 along with results from background monitoring wells and the 1984 soil equilibrium study. Also summarized in Table 3 are the complete ranges of background water quality conditions observed at the Puente Hills Landfill including both field and experimental results. These results indicate wide ranges of naturally occurring local extreme conditions for the site for various water quality indicator parameters and confirm that the naturally occurring groundwater at the Puente Hills Landfill is not a suitable drinking water source because of naturally high salinity and heavy metals levels. Specifically, eight heavy metals (antimony, arsenic, beryllium, cadmium, chromium, lead, nickel, and selenium) may be naturally present at levels in excess of their MCLs based on the background water quality monitoring and studies.

6.3 Site Water Quality - General Parameters

In 1994, the levels of general water quality parameters found in monitoring wells downgradient of the Puente Hills Landfill were within the range of background water quality summarized in Table 3. Monitoring results for general parameters do not indicate leachate formation and migration at the Puente Hills Landfill.

6.4 Site Water Quality - Field Filtered Metals

Both unfiltered and field filtered water samples were collected in 1994, as required by the WDR, and were analyzed for heavy metals. The metals analyzed include arsenic, antimony, barium, beryllium, cadmium, total chromium, hexavalent chromium (discontinued after first quarter of 1994) cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. Wells R32B and R34B were sampled and analyzed for these metals as well as tin and vanadium which are constituents of concern according to Title 40, Code of Federal Regulations, Part 258. Unfiltered samples were analyzed for total metals while field filtered samples were analyzed for soluble metals. Because the geologic formations being monitored contain high silt and clay contents, high levels of suspended solids were often present in the groundwater samples. The suspended solids in the groundwater samples consist of marine clays and silts which naturally contain metals from the erosion of feldspar

Table 3
Background Water Quality Conditions

CONSTITUENTS	UNITS	BACKGROUND WELLS (M17A, M18A, M19B, M23A)	1984 SOIL EQUILIBRIUM STUDY RESULTS	1993 MINERAL LEACHING STUDY RESULTS	OVERALL BACKGROUND RANGE
GENERAL					
PH	PH	4.34 - 8.32	6 - 6.7	4.18 - 7.97	4.18 - 8.32
CONDUCTIVITY	UMHOS/CM	2260 - 5500	643 - 9310	284 - 9370	284 - 9370
TOTAL DISSOLVED SOLIDS	MG/L	1781 - 5957	420 - 9490		420 - 9490
SUSPENDED SOLIDS	MG/L	1 - 3330	53 - 1290		1 - 3330
TOTAL CYANIDE	MG/L	<0.01 - 0.02			<0.01 - 0.02
TOTAL SULFIDE	MG/L	<0.1 - 0.1			<0.1 - 0.1
TOTAL HARDNESS	MG/L	913 - 3380	420 - 5990	71 - 6983	71 - 6983
TOTAL PHOSPHATE	MG/L	0.2 - 19.8	0.33 - 11	0.01 - 0.4	0.01 - 19.8
PHENOLS	MG/L	<0.001 - 0.13	0.008 - 0.03		<0.001 - 0.13
BORON	MG/L	0.13 - 1.5	<0.9 - 1.1	0.05 - 2.8	0.5 - 2.8
ANIONS					
NITRATE NITROGEN	MG/L	<0.01 - 22.3	0.2 - 1	0.01 - 19.19	<0.01 - 22.3
SULFATE	MG/L	594 - 4000	40 - 5990	13 - 7200	13 - 7200
CHLORIDE	MG/L	69 - 260	26 - 84.2	5 - 220	5 - 260
TOTAL ALKALINITY	MG/L	292 - 856	210 - 343	10 - 478	10 - 856
BICARBONATE ALKALINITY	MG/L	292 - 856			292 - 856
FLUORIDE	MG/L	0.43 - 3.23		0.23 - 6	0.23 - 6
CATIONS					
CALCIUM-HARDNESS	MG/L	457 - 1360	330 - 2890	45 - 1650	45 - 2890
MAGNESIUM-HARDNESS	MG/L	316 - 2050	77 - 3220	23 - 5833	23 - 5833
SODIUM	MG/L	189 - 563	20 - 170	16 - 3400	16 - 3400
POTASSIUM	MG/L	4 - 13	9 - 44	2.1 - 55	2.1 - 55
IRON	MG/L	<0.02 - 15.5	1.9 - 36.2	0.04 - 8.7	<0.02 - 36.2
MANGANESE	MG/L	0.008 - 14.2	1.8 - 3.69	0.01 - 15	0.008 - 15
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L	<0.01 - 2.3	1.7 - 5.9	3 - 6.7	<0.01 - 6.7
TOTAL BOD	MG/L	<1 - 6			<1 - 6
SOLUBLE BOD	MG/L	<1 - 6.9	<2.8 - <4.5		<1 - 6.9
TOTAL COD	MG/L	<1 - 59		5 - 120	<1 - 120
SOLUBLE COD	MG/L	<1 - 40	61 - 150		<1 - 150

Table 3 (Continued)
Background Water Quality Conditions

TOTAL ORGANIC CARBON	MG/L	1.6 - 13	23.6 - 134	3.2 - 64	1.6 - 134
TANNIN & LIGNIN	MG/L	0.02 - 1.3	1.4 - 3		0.02 - 3
OIL & GREASE	MG/L	<0.91 - 4	150 - 1430		<0.91 - 1430
TOTAL ORGANIC HALOGEN	MG/L	<0.08 - 52			<0.08 - 52
METALS					
ARSENIC	MG/L	<0.001 - 0.005	0.0096 - 0.06	0.002 - 0.01	<0.001 - 0.06
BARIUM	MG/L	<0.02 - 0.11		0.01 - 0.09	<0.02 - 0.11
CADMIUM	MG/L	<0.003 - 0.05	<0.005 - 0.011	0.001 - 0.06	<0.003 - 0.06
TOTAL CHROMIUM	MG/L	<0.01 - 0.62	<0.03 - <0.06	0.005 - 0.12	0.005 - 0.62
HEXAVALENT CHROMIUM	MG/L	<0.02 - <0.02			<0.02 - <0.02
COBALT	MG/L	<0.01 - 0.42			<0.01 - 0.42
COPPER	MG/L	<0.01 - 0.16	0.041 - 0.16	0.02 - 0.04	<0.01 - 0.16
LEAD	MG/L	<0.02 - 0.04	0.2 - 0.3	0.002 - 0.023	0.002 - 0.3
MERCURY	MG/L	<0.0001 - 0.0004	0.0008 - 0.0014	0.0001 - 0.002	0.0001 - 0.002
NICKEL	MG/L	<0.02 - 1.66	0.083 - 0.11	0.04 - 0.39	<0.03 - 1.66
SELENIUM	MG/L	<0.0009 - 0.029	<0.002 - 0.019	0.004 - 0.29	<0.0009 - 0.29
SILVER	MG/L	<0.005 - 0.014		0.001 - 0.022	<0.005 - 0.022
ZINC	MG/L	<0.01 - 0.05	0.06 - 0.11	0.01 - 0.08	<0.01 - 0.05
ANTIMONY	MG/L	<0.001 - 0.008			<0.001 - 0.008
BERYLLIUM	MG/L	<0.0005 - 0.02			<0.0005 - 0.02
THALLIUM	MG/L	<0.002 - <0.10			<0.002 - <0.10

and ferromagnesium parent rocks. These minerals undergo weathering processes and a small fraction of their associated metals dissolve. The degree of solubilization depends on the solubility of the metal and the surrounding physical and chemical conditions. The undissolved metals remain associated with the sediment. Because of the low solubility of the metals, a small amount of suspended solids in a groundwater sample will "mask" the dissolved constituent levels when the total metal concentration is analyzed using an unfiltered sample. Therefore, the results of total metal concentration analyses are merely a reflection of the suspended solids levels in the groundwater and will not indicate actual changes in groundwater chemistry which potentially results from the landfill. For this reason, the evaluation of metals analysis results uses only filtered metals concentrations for any indication of landfill impact on groundwater quality. The RWQCB supports this position, as do independent groundwater experts such as David K. Todd (Declaration, October 26, 1993).

In 1994, the water quality analysis results for field filtered metals indicated that metals concentrations downgradient of the site are either below MCLs or equivalent to background conditions. Therefore the Puente Hills Landfill does not have any effect on downgradient metals concentrations.

6.5 Site Water Quality - Volatile Organic Compounds

In 1994, VOCs were not consistently detected in monitoring wells downgradient of the Puente Hills Landfill except for monitoring well RMW6 downgradient of Barrier 1 and the two alluvial wells downgradient of Barrier 3 (M31A and M33A). Acetone was detected in a downgradient surface water sample (SD5) and in the background surface water location (SDB). No other VOCs were detected in runoff samples. Several VOCs including methylene chloride, carbon disulfide, toluene, acetone, and 2-butonone were detected in quality assurance/quality control samples.

The detections of VOCs downgradient of Barrier 1 were sporadic and at very low levels in 1994 except at well RMW6. The detected VOC levels at RMW6 were low (typically less than 5 parts per billion) and were consistent with levels expected from landfill gas contact with groundwater. The Districts expanded landfill gas control near this well in 1992 and installed additional gas control wells on the second bench in 1993 to further minimize potential landfill gas contact with canyon water. In addition, the operation of the canyon water extraction system near well RMW6 was enhanced by increasing the extraction rates. The changes in monitoring well water quality were carefully assessed through frequent monitoring of RMW6 (typically twice a month). The Districts concluded based on monitoring data collected in 1993 that the expanded landfill gas control and the enhanced canyon water extraction have resulted in decreased VOC concentrations. However, a consistent reduction in VOC concentration levels to below MCLs has not been accomplished by the end of 1994. The Districts have retained ENVIRON Corporation to perform a hydrogeologic investigation along all subsurface barrier systems. The information obtained from this investigation will help evaluate if further enhancements to the operation of landfill gas control and canyon water extraction systems are required. Ongoing evaluation of the effectiveness of the expanded mitigation program will be provided by the Districts through water quality monitoring as well as direct involvement and review by the RWQCB. At offsite monitoring well M16A, which is located downgradient of the Puente Hills

Landfill, but hydraulically upgradient of Whittier Narrows, there were no detections of those VOCs detected at RMW6 (vinyl chloride, TCE, 1,2-dichloroethane, and p-dichlorobenzene). The only commonly detected VOCs at RMW6 and M16A are PCE and 1,1-dichloroethane, both are known Basin contaminants. Due to the detection of other VOCs which are usually associated with the Basin (1,1,1-trichloroethane and 1,1- dichloroethylene), the Districts believe M16A is not affected by the Puente Hills Landfill, but by the Basin contamination.

Low levels of VOCs were also detected at well M31A and M33A downgradient of Barrier 3. The detected levels are much lower than levels previously observed at monitoring well M02A, which is upgradient of M31A and M33A. Vinyl chloride and 1,2-dichloroethane were detected at M31A and M33A at levels slightly above the MCLs. However, at monitoring well M16A which is downgradient of these wells, there was no detection of compound. This indicates that the low levels of VOCs detected onsite do not affect the groundwater in Whittier Narrows or San Gabriel Groundwater Basin.

In summary, low levels of VOCs were detected in some onsite monitoring wells downgradient of Barriers 1 and 3 in 1994. The detected compounds and levels were consistent with previous detections. These detections do not indicate effects from the Puente Hills Landfill to the Basin based on monitoring data collected from offsite monitoring well M16A.

6.6 Site Water Quality - Base Neutral/Acid Extractable Compounds and Pesticides

In 1994, there were no water quality concerns related to the base neutral/acid extractable (BNA) compounds. Phthalates were the only BNA compounds frequently detected in water quality samples. Phthalates are widely used plasticizers and are commonly found in laboratory control blanks and are therefore not considered meaningful water quality indicator parameters; other water quality indicator parameters also need to be examined draw conclusion about water quality. The monitoring results in 1994 do not indicate the BNA compounds are a water quality concern.

Pesticides were not detected at any monitoring wells at the site. Surface water samples collected at SD2 and SD4 occasionally detected aldrin, PP'-DDE and PP'-DDD at very low levels. These compounds were detected at concentrations much below regulatory limits and do not indicate a water quality concern.

7.0 SLUDGE MONITORING

The dewatered sewage sludge disposed of at the landfill originates at the Districts' Joint Water Pollution Control Plant. Summaries of the monthly average sludge percent solids content and tons disposed are presented in Table 4. Two different types of analyses are performed on a regular basis: a bimonthly modified citrate extract procedure for metals analyses, and a semi-annual sludge cake analysis for pesticides and VOCs. Monitoring performed during 1994 did not indicate any exceedances of Title 22 criteria for the identification of hazardous wastes for those analyses required

Table 4

1994 Sewage Sludge Disposal Summary

Month	Tonnages	Solids Content (%)
January	16,021	25.7
February	13,779	26.2
March	17,149	26.3
April	15,251	26.2
May	15,707	26.6
June	16,476	25.8
July	13,516	25.5
August	17,427	26.3
September	20,593	25.7
October	22,018	25.4
November	30,724	25.0
December	30,112	25.3

in the March 4, 1991 MRP No. 2294. Results of sludge analyses have been separately reported to the RWQCB in quarterly monitoring reports and are not included in this report.

8.0 TREATED INCINERATOR ASH MONITORING

Treated incinerator ash from Commerce Refuse to Energy Facility (Commerce) and the Southeast Resources Recovery Facility (SERRF) located in Long Beach was disposed at the Puente Hills Landfill during 1994. All incinerator ash accepted at the Puente Hills Landfill during 1994 was treated by a solidification/stabilization process. This process forms a concrete-like material designed to conform with applicable water quality objectives.

In accordance with WDR Order No. 91-035, the treated ash from Commerce and SERRF was analyzed by the Waste Extraction Test (WET) with citrate buffer and deionized water extraction. In addition, WET citrate for dioxin was performed pursuant to the Order. These results and disposal summaries have been separately submitted to RWQCB on a monthly basis and are not included in this monitoring report.

APPENDIX

WATER QUALITY MONITORING DATA - PUENTE HILLS LANDFILL, 1994

APPENDIX A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI LE-SJ73976 03/24/94	WEFI LE-SJ77492 08/09/94	WEFI LE-SJ81428 09/09/94
ANIONS				
SULFATE	MG/L SO4	776		
CHLORIDE	MG/L CL	386		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	744	836	1150
MAGNESIUM-HARDNESS	MG/L CACO3	675	782	1190
SODIUM	MG/L NA	286	331	414
POTASSIUM	MG/L K	23.4	28.0	32.0
IRON	MG/L FE	1.45	0.84	12.1
MANGANESE	MG/L MN	2.82	4.16	1.54
METALS				
ARSENIC	MG/L AS	0.002	0.004	0.008
BARIUM	MG/L BA	0.10	0.12	0.10
CADMIUM	MG/L CD	<0.005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	0.04	0.03
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01	< 0.01
ANTIMONY	MG/L SB	0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005 A	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ71322 01/28/94	WELL LE-SJ71967 02/11/94	WELL LE-SJ73978 03/24/94	WELL LE-SJ74717 04/08/94	WELL LE-SJ75941 05/08/94	WELL LE-SJ77495 06/09/94	WELL LE-SJ78789 07/08/94	WELL LE-SJ80519 08/19/94	WELL LE-SJ81429 09/09/94	WELL LE-SJ82723 10/07/94
FIELD PARAMETERS											
FIELD WATER TEMPERATURE	DEG C	21	13	19.6	22	18.7	24	20	26	2.5	20
FIELD PH	PH	6.64	7.11	6.78	6.75	6.97	6.94	6.90	6.75	6.75	6.91
FIELD CONDUCTIVITY	UMHOS/CM	3150	4260	3120	2540	2630	3420	3240	4790	490	2610
FIELD DISSOLVED O2	MG/L	3.1	3.2	4.7	4.30	1.8	3.8	0.2	0.4	1.50	4.0
FIELD DISSOLVED CO2	MG/L	154.9	153.1	153.1	86.2	92.0	95.3	91.9	281.6	183.9	100.3
FIELD TOTAL ALKALINITY	MG/L	714	1540	784	650	652	914	752	1020	1114	712
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
GENERAL											
PH	PH	7.89	6.9	7.53 A	7.68	7.38	7.28	7.39	7.60	6.89	7.74 A
CONDUCTIVITY	UMHOS/CM			3220			4460			5250	
SUSPENDED SOLIDS	MG/L			8			31 A	250		532	
TOTAL DISSOLVED SOLIDS	MG/L	2490	2988	2340	2224	2114	3326		3296	3972	2575
TOTAL HARDNESS	MG/L CACO3			1390 D			1493 D			2430 D	
TOTAL CYANIDE	MG/L CN			< 0.01			< 0.01			< 0.01	
PHENOLS	MG/L C6H5OH			<0.001			0.003			0.003	
BORON	MG/L B			1.83			2.19			1.93	
ANIONS											
NITRATE NITROGEN	MG/L N			0.18 B			0.15 B			< 0.02	
SULFATE	MG/L SO4	750	161	786 B	742	723	880 B	722	675 E	1090	830 E
CHLORIDE	MG/L CL	393	784	388 B	282	296	567 B	356	760 E	802 E	338 E
TOTAL ALKALINITY	MG/L CACO3			360 C			907			998	
BICARBONATE ALKALINITY	MG/L CACO3			360			907			998	
TOTAL PHOSPHATE	MG/L PO4			0.39 C			0.86			25.2	
TOTAL SULFIDE	MG/L S			< 0.1			< 0.1			< 0.1	
FLUORIDE	MG/L F			0.82			0.74			1.32	
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3			734 B			789			1220	
MAGNESIUM-HARDNESS	MG/L CACO3			659 B			704			1210	
SODIUM	MG/L NA			288 B			316			427	
POTASSIUM	MG/L K			31.6 B			29.0			37.4	
IRON	MG/L FE			6.06 B			10.6			456	
MANGANESE	MG/L MN			2.89 B			4.69			5.19	
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N			5.5			18.8			21.6	
TOTAL BOD	MG/L O	20	153	15	23	158	16 A	75	362	123	19

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE E-AVERAGE
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ71322 01/28/94	WELL LE-SJ71967 02/11/94	WELL LE-SJ73978 03/24/94	WELL LE-SJ74717 04/08/94	WELL LE-SJ75941 05/06/94	WELL LE-SJ77495 06/09/94	WELL LE-SJ78789 07/08/94	WELL LE-SJ80519 08/19/94	WELL LE-SJ81429 09/09/94	WELL LE-SJ82723 10/07/94
ORGANIC MATTER											
SOLUBLE BOD	MG/L O			2 A			4			6	
TOTAL COD	MG/L O	107	354	76 C	57	561	140	162	791	286	105
SOLUBLE COD	MG/L O			78			136			174	
TOTAL ORGANIC CARBON	MG/L C			22			38			86	
OIL & GREASE	MG/L EXTRAC			< 0.9			< 0.9			2.3	
TOTAL ORGANIC HALOGEN(TOX	UG/L			370			350 B			1000	
ACETIC ACID	MG/L			< 2.5			< 2.5			< 2.5 B	
PROPIONIC ACID	MG/L			< 2.0			< 2.0			< 2.0 B	
ISOBUTYRIC ACID	MG/L			< 2.0			< 2.0			< 2.0 B	
BUTYRIC ACID	MG/L			< 2.0			< 2.0			< 2.0 B	
ISOVALERIC ACID	MG/L			< 2.0			< 2.0			< 2.0 B	
VALERIC ACID	MG/L			< 2.0			< 2.0			< 2.0 B	
METALS											
ARSENIC	MG/L AS			0.005			0.005			0.066	
BARIUM	MG/L BA			0.13 B			0.15			0.90	
CADMIUM	MG/L CD			<0.005 B			<0.003			<0.003	
TOTAL CHROMIUM	MG/L CR			< 0.02 B			< 0.01			0.04	
HEXAVALENT CHROMIUM	MG/L CR			< 0.02 B							
COBALT	MG/L CO			< 0.04 B			0.01			0.06	
COPPER	MG/L CU			< 0.02 B			< 0.01			0.06	
LEAD	MG/L PB			< 0.04 B			< 0.02			< 0.02	
MERCURY	MG/L HG			<.0001			<.0001			<.0001	
NICKEL	MG/L NI			< 0.03 B			0.04			0.06	
SELENIUM	MG/L SE			<0.001			<0.001			<0.001	
SILVER	MG/L AG			<0.005 B			< 0.01			< 0.01	
ZINC	MG/L ZN			< 0.02 B			< 0.01			0.16	
ANTIMONY	MG/L SB			<0.001			<0.001			0.001	
BERYLLIUM	MG/L BE			<.0005 B			<.0005			.0013	
THALLIUM	MG/L TL			<0.002 B			<0.002			<0.002	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L			< 0.01			< 0.01			< 0.01	
PP'-DDD	UG/L			< 0.01			< 0.01			< 0.01	
PP'-DDT	UG/L			< 0.01			< 0.01			< 0.01	
ALPHA-BHC	UG/L			< 0.01			< 0.01			< 0.01	
LINDANE (GAMMA-BHC)	UG/L			< 0.01			< 0.01			< 0.01	
HEPTACHLOR	UG/L			< 0.01			< 0.01			< 0.01	
HEPTACHLOR EPOXIDE	UG/L			< 0.01			< 0.01			< 0.01	
ALDRIN	UG/L			< 0.01			< 0.01			< 0.01	
DIELDRIN	UG/L			< 0.01			< 0.01			< 0.01	

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE E-AVERAGE
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ71322 01/28/94	WELL LE-SJ71967 02/11/94	WELL LE-SJ73978 03/24/94	WELL LE-SJ74717 04/08/94	WELL LE-SJ75941 05/06/94	WELL LE-SJ77495 08/09/94	WELL LE-SJ78789 07/08/94	WELL LE-SJ80519 08/19/94	WELL LE-SJ81429 09/09/94	WELL LE-SJ82723 10/07/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ENDRIN	UG/L			< 0.01			< 0.01			< 0.01	
TOXAPHENE	UG/L			< 0.5			< 0.5			< 0.5	
METHOXYCLOR	UG/L			< 0.01			< 0.01			< 0.01	
AROCLOR 1242	UG/L			< 0.1			< 0.1			< 0.1	
AROCLOR 1254	UG/L			< 0.05			< 0.05			< 0.05	
BETA-BHC	UG/L			< 0.01			< 0.01			< 0.01	
DELTA-BHC	UG/L			< 0.01			< 0.01			< 0.01	
ENDOSULFAN I	UG/L			< 0.01			< 0.01			< 0.01	
ENDOSULFAN II	UG/L			< 0.01			< 0.01			< 0.01	
ENDOSULFAN SULFATE	UG/L			< 0.1			< 0.1			< 0.1	
ENDRIN ALDEHYDE	UG/L			< 0.01			< 0.01			< 0.01	
AROCLOR 1016	UG/L			< 0.1			< 0.1			< 0.1	
AROCLOR 1221	UG/L			< 0.1			< 0.1			< 0.1	
AROCLOR 1232	UG/L			< 0.1			< 0.1			< 0.1	
AROCLOR 1248	UG/L			< 0.1			< 0.1			< 0.1	
AROCLOR 1260	UG/L			< 0.1			< 0.1			< 0.1	
TECHNICAL CHLORDANE	UG/L			< 0.05			< 0.05			< 0.05	
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L			< 1.0			< 1.0			< 1.0	
CHLOROFORM	UG/L			< 0.5			< 0.5			< 0.5	
1,1,1-TRICHLOROETHANE	UG/L			< 0.5			< 0.5			< 0.5	
CARBON TETRACHLORIDE	UG/L			< 0.3			< 0.3			< 0.3	
1,1-DICHLOROETHENE	UG/L			< 0.3			< 0.3			< 0.3	
TRICHLOROETHYLENE	UG/L			1.0			1.4			< 0.3	
TETRACHLOROETHYLENE	UG/L			< 0.3			< 0.3			< 0.3	
BROMODICHLOROMETHANE	UG/L			< 0.5			< 0.5			< 0.5	
DIBROMOCHLOROMETHANE	UG/L			< 0.5			< 0.5			< 0.5	
BROMOFORM	UG/L			< 0.5			< 0.5			< 0.5	
CHLOROBENZENE	UG/L			0.5			0.6			1.6	
VINYL CHLORIDE	UG/L			< 0.5			1.1			2.3	
O-DICHLOROBENZENE	UG/L			< 0.5			< 0.5			1.1	
M-DICHLOROBENZENE	UG/L			< 0.5			< 0.5			< 0.5	
P-DICHLOROBENZENE	UG/L			1.2			2.0			3.7	
1,1-DICHLOROETHANE	UG/L			1.6			2.2			< 0.3	
1,1,2-TRICHLOROETHANE	UG/L			< 0.3			< 0.3			< 0.3	
1,2-DICHLOROETHANE	UG/L			0.5			1.0			< 0.3	
BENZENE	UG/L			< 0.3			0.4			0.7	
TOLUENE	UG/L			< 0.3			< 0.3			< 0.3	
ETHYL BENZENE	UG/L			0.7			< 0.3			< 0.3	
TRANS-1,2-DICHLOROETHYLEN	UG/L			< 0.3			< 0.3			< 0.3	
BROMOMETHANE	UG/L			< 2.5			< 2.5			< 2.5	

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE E-AVERAGE
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ71322 01/28/94	WELL LE-SJ71987 02/11/94	WELL LE-SJ73978 03/24/94	WELL LE-SJ74717 04/08/94	WELL LE-SJ75941 05/06/94	WELL LE-SJ77495 06/09/94	WELL LE-SJ78789 07/08/94	WELL LE-SJ80519 08/19/94	WELL LE-SJ81429 09/09/94	WELL LE-SJ82723 10/07/94
VOLATILE ORGANIC COMPOUNDS											
CHLOROETHANE	UG/L			< 2.5			< 2.5			< 2.5	
2-CHLOROETHYLVINYLETHER	UG/L			< 1.0			< 1.0			< 1.0	
CHLOROMETHANE	UG/L			< 2.5			< 2.5			< 2.5	
1,2-DICHLOROPROPANE	UG/L			< 0.5			< 0.5			< 0.5	
CIS-1,3-DICHLOROPRDPENE	UG/L			< 0.5			< 0.5			< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L			< 0.5			0.9			< 0.5	
1,1,2,2-TETRACHLORDETHANE	UG/L			< 0.5			< 0.5			< 0.5	
ACROLEIN	UG/L			< 2.5			< 2.5			< 2.5 B	
ACRYLONITRILE	UG/L			< 1.0			< 1.0			< 1.0 B	
ACETONE	UG/L			< 5.0			< 5.0			< 5.0 B	
2-BUTANONE	UG/L			< 1.0			< 1.0			< 1.0 B	
ACID-BASE NEUTRAL EXTRACTABLE											
ACENAPHTHENE	UG/L			< 20			< 2			< 20	
ACENAPHTHYLENE	UG/L			< 20			< 2			< 20	
ANTHRACENE	UG/L			< 10			< 1			< 10	
BENZIDINE	UG/L			< 620			< 62			< 620	
BENZO(A)ANTHRACENE	UG/L			< 20			< 2			< 20	
BENZO(A)PYRENE	UG/L			< 70			< 7			< 70	
BENZO(B)FLUORANTHENE	UG/L			< 20			< 2			< 20	
BENZO(G,H,I,)PERYLENE	UG/L			< 60			< 6			< 60	
BENZO(K)FLUORANTHENE	UG/L			< 20			< 2			< 20	
BIS(2-CL-ETHOXY)METHANE	UG/L			< 30			< 3			< 30	
BIS(2-CHLOROETHYL)ETHER	UG/L			< 50			< 5			< 50	
BIS(2-CL-ISOPROPYL)ETHER	UG/L			< 30			< 3			< 30	
DIETHYLHEXYL PHTHALATE	UG/L			< 100			< 10			5 F	
4-BROMOPHENYL PHENYLETHER	UG/L			< 90			< 9			< 90	
BUTYLBENZYL PHTHALATE	UG/L			< 30			< 3			< 30	
2-CHLORONAPHTHALENE	UG/L			< 10			< 1			< 10	
4-CHLOROPHENYLPHENYLETHER	UG/L			< 20			< 2			< 20	
CHRYSENE	UG/L			< 20			< 2			< 20	
DIBENZO(A,H)ANTHRACENE	UG/L			< 60			< 6			< 60	
1,2-DICHLOROBENZENE	UG/L			< 100			< 10			< 100	
1,3-DICHLOROBENZENE	UG/L			< 100			< 10			< 100	
1,4-DICHLOROBENZENE	UG/L			< 20			< 2			< 20	
3,3'-DICHLOROBENZIDINE	UG/L			< 1000			< 100			< 1000	
DIETHYL PHTHALATE	UG/L			< 20			< 2			< 20	
DIMETHYL PHTHALATE	UG/L			< 30			< 3			< 30	
DI-N-BUTYL PHTHALATE	UG/L			< 40			< 4			< 40	
2,4-DINITROTOLUENE	UG/L			< 30			< 3			< 30	
2,6-DINITROTOLUENE	UG/L			< 50			< 5			< 50	
DI-N-OCTYL PHTHALATE	UG/L			< 50			< 5			< 50	

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE E-AVERAGE
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ71322 01/28/94	WELL LE-SJ71967 02/11/94	WELL LE-SJ73978 03/24/94	WELL LE-SJ74717 04/08/94	WELL LE-SJ75941 05/06/94	WELL LE-SJ77495 06/09/94	WELL LE-SJ78789 07/08/94	WELL LE-SJ80519 08/19/94	WELL LE-SJ81429 09/09/94	WELL LE-SJ82723 10/07/94
ACID-BASE NEUTRAL EXTRACTABLE											
1,2-DIPHENYLHYDRAZINE	UG/L			< 10			< 1			< 10	
FLUORANTHENE	UG/L			< 20			< 2			< 20	
FLUORENE	UG/L			< 20			< 2			< 20	
HEXACHLOROBENZENE	UG/L			< 10			< 1			< 10	
HEXACHLOROBUTADIENE	UG/L			< 100			< 10			< 100	
HEXACHLOROCYCLOPENTADIENE	UG/L			< 1000			< 100			< 1000	
HEXACHLOROETHANE	UG/L			< 120			< 12			< 120	
INDENO(1,2,3-C,D)PYRENE	UG/L			< 60			< 6			< 60	
ISOPHORONE	UG/L			< 30			< 3			< 30	
NAPHTHALENE	UG/L			< 20			< 2			< 20	
NITROBENZENE	UG/L			< 20			< 2			< 20	
N-NITROSODIMETHYLAMINE	UG/L			< 300			< 30			< 300	
N-NITROSODI-N-PROPYLAMINE	UG/L			< 20			< 2			< 20	
PHENANTHRENE	UG/L			< 10			< 1			< 10	
PYRENE	UG/L			< 20			< 2			< 20	
2,3,7,8-TCDD	UG/L			< 30			< 3			< 30	
2-CHLOROPHENOL	UG/L			< 80			< 8			< 80	
1,2,4-TRICHLOROBENZENE	UG/L			< 30			< 3			< 30	
2,4-DICHLOROPHENOL	UG/L			< 30			< 3			< 30	
2,4-DIMETHYLPHENOL	UG/L			< 30			< 3			< 30	
2,4-DINITROPHENOL	UG/L			< 390			< 39			< 390	
2-METHYL-4,6DINITROPHENOL	UG/L			< 170			< 17			< 170	
2-NITROPHENOL	UG/L			< 50			< 5			< 50	
4-NITROPHENOL	UG/L			< 60			< 6			< 60	
4-CHLORO-3-METHYLPHENOL	UG/L			< 20			< 2			< 20	
PENTACHLOROPHENOL	UG/L			< 160			< 16			< 160	
PHENOL	UG/L			< 30			< 3			< 30	
2,4,6-TRICHLOROPHENOL	UG/L			< 20			< 2			< 20	
N-NITROSODIPHENYLAMINE	UG/L			< 20			< 2			< 20	

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE E-AVERAGE
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL LE-SJ85625 11/23/94
FIELD PARAMETERS		
FIELD WATER TEMPERATURE	DEG C	18
FIELD PH	PH	7.50
FIELD CONDUCTIVITY	UMHOS/CM	3160
FIELD DISSOLVED O2	MG/L	2.8
FIELD DISSOLVED CO2	MG/L	46.8
FIELD TOTAL ALKALINITY	MG/L	900
FIELD HYDROGEN SULFIDE	PPM	< 0.1
GENERAL		
PH	PH	7.15
TOTAL DISSOLVED SOLIDS	MG/L	3160
ANIONS		
SULFATE	MG/L SO4	986 E
CHLORIDE	MG/L CL	544 E
ORGANIC MATTER		
TOTAL BOD	MG/L O	4
TOTAL COD	MG/L O	109

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE E-AVERAGE
F-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ73453 03/15/94	WELL MW4 SJ77864 06/17/94
FIELD PARAMETERS			
DEPTH TO WATER	FT	43.4	43.8
DEPTH TO BOTTOM	FT	44.5	44.5
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	16	17
FIELD WATER TEMPERATURE	DEG C	22.1	
FIELD PH	PH	6.85	
FIELD CONDUCTIVITY	UMHOS/CM	1629	
FIELD DISSOLVED O2	MG/L	1.7	
FIELD DISSOLVED CO2	MG/L	66.9	
FIELD TOTAL ALKALINITY	MG/L	482	
FIELD HYDROGEN SULFIDE	PPM	< 0.1	
GENERAL			
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01
BORON	MG/L B	0.37	
ANIONS			
SULFATE	MG/L SO4	476	
CHLORIDE	MG/L CL	87.8	
TOTAL SULFIDE	MG/L S	< 0.1	
FLUORIDE	MG/L F	0.77	
ORGANIC MATTER			
TOTAL ORGANIC CARBON	MG/L C	5.9	
OIL & GREASE	MG/L EXTRAC	< 0.9	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
PP'-DDE	UG/L	< 0.01	
PP'-DDD	UG/L	< 0.01	
PP'-DDT	UG/L	< 0.01	
ALPHA-BHC	UG/L	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	
HEPTACHLOR	UG/L	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	
ALDRIN	UG/L	< 0.01	
DIELDRIN	UG/L	< 0.01	
ENDRIN	UG/L	< 0.01	
TOXAPHENE	UG/L	< 0.5	
METHOXYCLOR	UG/L	< 0.01	

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ73453 03/15/94	WELL MW4 SJ77864 06/17/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
AROCLOR 1242	UG/L	< 0.1	
AROCLOR 1254	UG/L	< 0.05	
BETA-BHC	UG/L	< 0.01	
DELTA-BHC	UG/L	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.1	
ENDRIN ALDEHYDE	UG/L	< 0.01	
AROCLOR 1016	UG/L	< 0.1	
AROCLOR 1221	UG/L	< 0.1	
AROCLOR 1232	UG/L	< 0.1	
AROCLOR 1248	UG/L	< 0.1	
AROCLOR 1260	UG/L	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05	
VOLATILE ORGANIC COMPOUNDS			
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ73453 03/15/94	WELL MW4 SJ77864 08/17/94
VOLATILE ORGANIC COMPOUNDS			
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3	
2-BUTANONE	UG/L	< 1.0	< 1.0

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ73454 03/15/94		WELL MW5 SJ77865 06/17/94	WELL MW5 SJ82056 09/23/94	WELL MW5 SJ85930 12/02/94
FIELD PARAMETERS						
DEPTH TO WATER	FT			60.2	60.3	60.68
DEPTH TO BOTTOM	FT			61.6	61.6	61.60
PERCENT METHANE IN GAS	%CH4			< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2			18	21	21
FIELD WATER TEMPERATURE	DEG C			22.5	23.2	
FIELD PH	PH			7.45	7.57	
FIELD CONDUCTIVITY	UMHOS/CM			2320	2350	
FIELD DISSOLVED O2	MG/L			2.85	1.6	
FIELD DISSOLVED CO2	MG/L			93.6	29.9	
FIELD TOTAL ALKALINITY	MG/L			934	772	
FIELD HYDROGEN SULFIDE	PPM			< 0.1	< 0.1	
GENERAL						
PH	PH	8.33				
CONDUCTIVITY	UMHOS/CM	2680				
SUSPENDED SOLIDS	MG/L	319	A			
TOTAL DISSOLVED SOLIDS	MG/L		B			
TOTAL HARDNESS	MG/L CACO3		B			
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01		
PHENOLS	MG/L C6H5OH	<0.001		0.001		
BORON	MG/L B	0.21		0.54		
ANIONS						
NITRATE NITROGEN	MG/L N	0.71	C			
SULFATE	MG/L SO4	273	C			
CHLORIDE	MG/L CL	247	C			
TOTAL ALKALINITY	MG/L CACO3	852				
BICARBONATE ALKALINITY	MG/L CACO3	844				
TOTAL PHOSPHATE	MG/L PO4	0.53		3.12		
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1	< 0.1	
FLUORIDE	MG/L F	0.85		1.01		
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1				
TOTAL BOD	MG/L O	2				
SOLUBLE BOD	MG/L O	2				
TOTAL COD	MG/L O	29				
SOLUBLE COD	MG/L O	22				
TOTAL ORGANIC CARBON	MG/L C	14		6.8	5.3	
OIL & GREASE	MG/L EXTRAC	1.1		< 0.9		

FOOTNOTES : A-AVERAGE OF DUPS B-INSUFFICIENT SAMPLE C-DUPLICATE SPIKE D-ND = NONE DETECTED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ73454 03/15/94	WELL MW5 SJ77865 06/17/94	WELL MW5 SJ82056 09/23/94	WELL MW5 SJ85930 12/02/94						
ORGANIC MATTER											
TOTAL ORGANIC HALOGEN(TOX	UG/L	180	120								
ACETIC ACID	MG/L	< 2.5									
PROPIONIC ACID	MG/L	< 2.0									
ISOBUTYRIC ACID	MG/L	< 2.0									
BUTYRIC ACID	MG/L	< 2.0									
ISOVALERIC ACID	MG/L	< 2.0									
VALERIC ACID	MG/L	< 2.0									
METALS											
ARSENIC	MG/L AS		0.010								
SELENIUM	MG/L SE		<0.001								
ANTIMONY	MG/L SB		0.001								
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L	< 0.01	< 0.01								
PP'-DDD	UG/L	< 0.01	< 0.01								
PP'-DDT	UG/L	< 0.01	< 0.01								
ALPHA-BHC	UG/L	< 0.01	< 0.01								
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01								
HEPTACHLOR	UG/L	< 0.01	< 0.01								
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01								
ALDRIN	UG/L	< 0.01	< 0.01								
DIELORIN	UG/L	< 0.01	< 0.01								
ENDRIN	UG/L	< 0.01	< 0.01								
TOXAPHENE	UG/L	< 0.5	< 0.5								
METHOXYCLOR	UG/L	< 0.01	< 0.01								
AROCLOR 1242	UG/L	< 0.1	< 0.1								
AROCLOR 1254	UG/L	< 0.05	< 0.05								
BETA-BHC	UG/L	< 0.01	< 0.01								
DELTA-BHC	UG/L	< 0.01	< 0.01								
CIS-CHLORDANE	UG/L		< 0.01								
TRANS-CHLORDANE	UG/L		< 0.01								
TRANS-NONACHLOR	UG/L		< 0.01								
OXYCHLORDANE	UG/L		< 0.01								
TOTAL DETECTED CHLORDANES	UG/L			D							
ENDOSULFAN I	UG/L	< 0.01	< 0.01								
ENDOSULFAN II	UG/L	< 0.01	< 0.01								
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1								
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01								
AROCLOR 1016	UG/L	< 0.1	< 0.1								
AROCLOR 1221	UG/L	< 0.1	< 0.1								

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ73454 03/15/94	WELL MW5 SJ77885 06/17/94	WELL MW5 SJ82056 09/23/94	WELL MW5 SJ85930 12/02/94						
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
AROCLOR 1232	UG/L	< 0.1	< 0.1								
AROCLOR 1248	UG/L	< 0.1	< 0.1								
AROCLOR 1260	UG/L	< 0.1	< 0.1								
TECHNICAL CHLORDANE	UG/L	< 0.05									
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0						
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	C					
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	C					
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	C					
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	C					
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	C					
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3						
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0						
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5						
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5							
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0							
ACETONE	UG/L	< 5.0	< 5.0	< 5.0							
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3									
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0							

FOOTNOTES : A-AVERAGE OF DUPS B-INSUFFICIENT SAMPLE C-DUPLICATE SPIKE D-ND = NONE DETECTED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI RMW6 SJ74075 03/25/94	WEFI RMW6 SJ77181 06/03/94	WEFI RMW6 SJ81426 09/09/94
ANIONS				
SULFATE	MG/L SO4	751		
CHLORIDE	MG/L CL	117		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	534	539	557 A
MAGNESIUM-HARDNESS	MG/L CACO3	494	519	506 A
SODIUM	MG/L NA	152	160	162 A
POTASSIUM	MG/L K	6.3	6.3	6.2 A
IRON	MG/L FE	0.04	0.07	0.10 A
MANGANESE	MG/L MN	5.14	5.78	5.92 A
METALS				
ARSENIC	MG/L AS	<0.001	<0.001	<0.001
BARIUM	MG/L BA	< 0.02	0.04	0.04 A
CADMIUM	MG/L CD	<0.005	<0.003	<0.003 A
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01 A
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01 A
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01 A
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02 A
MERCURY	MG/L HG	<.0001 A	<.0001 A	<.0001
NICKEL	MG/L NI	< 0.03	0.02	< 0.02 A
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01 A
ZINC	MG/L ZN	< 0.02	< 0.01	< 0.01 A
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005 A
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 A

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ70542 01/12/94	WELL RMW6 SJ71327 01/28/94	WELL RMW6 SJ71965 02/11/94	WELL RMW6 SJ72719 02/25/94	WELL RMW6 SJ73342 03/11/94	WELL RMW6 SJ74076 03/25/94	WELL RMW6 SJ74716 04/08/94	WELL RMW6 SJ75271 04/22/94	WELL RMW6 SJ75532 04/29/94	WELL RMW6 SJ75939 05/06/94
FIELD PARAMETERS											
DEPTH TO WATER	FT		55.1	53.4	54.4		55.7	55.4		54.2	
DEPTH TO BOTTOM	FT		90.6	90.6	90.8		90.6	90.6		90.6	
PERCENT METHANE IN GAS	%CH4		< 0.1		< 0.1		< 0.1	< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2		19		21		17	20		20	
FIELD WATER TEMPERATURE	DEG C		19				19.0				
FIELD PH	PH		6.50		6.58		6.69				
FIELD CONDUCTIVITY	UMHOS/CM		2210		2100		1721				
FIELD DISSOLVED O2	MG/L		0.9				2.10				
FIELD DISSOLVED CO2	MG/L		102.1				89.8				
FIELD TOTAL ALKALINITY	MG/L		446				452				
FIELD HYDROGEN SULFIDE	PPM		< 0.1				< 0.1				
GENERAL											
PH	PH						7.45				
CONDUCTIVITY	UMHOS/CM						2200				
SUSPENDED SOLIDS	MG/L						1				
TDTAL DISSOLVED SOLIDS	MG/L						1697				
TOTAL HARDNESS	MG/L CACO3						1040 C				
TOTAL CYANIDE	MG/L CN						< 0.01				
PHENOLS	MG/L C6H5OH						0.001				
BORON	MG/L B						0.70				
ANIONS											
NITRATE NITROGEN	MG/L N						<0.001 B				
SULFATE	MG/L SO4						752				
CHLORIDE	MG/L CL						118				
TOTAL ALKALINITY	MG/L CACO3						437				
BICARBONATE ALKALINITY	MG/L CACO3						437				
TOTAL PHOSPHATE	MG/L PO4						0.24				
TOTAL SULFIDE	MG/L S						< 0.1				
FLUORIDE	MG/L F						0.77				
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3						539				
MAGNESIUM-HARDNESS	MG/L CACO3						502				
SODIUM	MG/L NA						152				
POTASSIUM	MG/L K						6.3				
IRON	MG/L FE						0.06				
MANGANESE	MG/L MN						5.35				

FOOTNOTES : A-CHECK NOTES TO USER B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ70542 01/12/94	WELL RMW6 SJ71327 01/28/94	WELL RMW6 SJ71965 02/11/94	WELL RMW6 SJ72719 02/25/94	WELL RMW6 SJ73342 03/11/94	WELL RMW6 SJ74076 03/25/94	WELL RMW6 SJ74716 04/08/94	WELL RMW6 SJ75271 04/22/94	WELL RMW6 SJ75532 04/29/94	WELL RMW6 SJ75939 05/06/94
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N						< 0.1				
TOTAL BOD	MG/L O						< 0.7				
SOLUBLE BOD	MG/L O						< 0.7				
TOTAL COD	MG/L O						< 2				
SOLUBLE COD	MG/L O						5				
TOTAL ORGANIC CARBON	MG/L C						2.0				
OIL & GREASE	MG/L EXTRAC						< 0.9 D				
TOTAL ORGANIC HALOGEN(TOX	UG/L						59				
ACETIC ACID	MG/L						< 2.5				
PROPIONIC ACID	MG/L						< 2.0				
ISOBUTYRIC ACID	MG/L						< 2.0				
BUTYRIC ACID	MG/L						< 2.0				
ISOVALERIC ACID	MG/L						< 2.0				
VALERIC ACID	MG/L						< 2.0				
METALS											
ARSENIC	MG/L AS						<0.001				
BARIUM	MG/L BA						0.04				
CADMIUM	MG/L CD						<0.005				
TOTAL CHROMIUM	MG/L CR						< 0.02				
HEXAVALENT CHROMIUM	MG/L CR						< 0.02				
COBALT	MG/L CO						< 0.04				
COPPER	MG/L CU						< 0.02				
LEAD	MG/L PB						< 0.04				
MERCURY	MG/L HG						<.0001				
NICKEL	MG/L NI						< 0.03				
SELENIUM	MG/L SE						<0.001				
SILVER	MG/L AG						<0.005				
ZINC	MG/L ZN						< 0.02				
ANTIMONY	MG/L SB						<0.001				
BERYLLIUM	MG/L BE						<.0005				
THALLIUM	MG/L TL						<0.002				
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L						< 0.01				
PP'-DDD	UG/L						< 0.01				
PP'-DDT	UG/L						< 0.01				
ALPHA-BHC	UG/L						< 0.01				
LINDANE (GAMMA-BHC)	UG/L						< 0.01				
HEPTACHLOR	UG/L						< 0.01				
HEPTACHLOR EPOXIDE	UG/L						< 0.01				

FOOTNOTES : A-CHECK NOTES TO USER B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ70542 01/12/94	WELL RMW6 SJ71327 01/28/94	WELL RMW6 SJ71965 02/11/94	WELL RMW6 SJ72719 02/25/94	WELL RMW6 SJ73342 03/11/94	WELL RMW6 SJ74076 03/25/94	WELL RMW6 SJ74716 04/08/94	WELL RMW6 SJ75271 04/22/94	WELL RMW6 SJ75532 04/29/94	WELL RMW6 SJ75939 05/06/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ALDRIN	UG/L						< 0.01				
DIELDRIN	UG/L						< 0.01				
ENDRIN	UG/L						< 0.01				
TOXAPHENE	UG/L						< 0.5				
METHOXYCLOR	UG/L						< 0.01				
AROCLOR 1242	UG/L						< 0.1				
AROCLOR 1254	UG/L						< 0.05				
BETA-BHC	UG/L						< 0.01				
DELTA-BHC	UG/L						< 0.01				
ENDOSULFAN I	UG/L						< 0.01				
ENDOSULFAN II	UG/L						< 0.01				
ENDOSULFAN SULFATE	UG/L						< 0.1				
ENDRIN ALDEHYDE	UG/L						< 0.01				
AROCLOR 1016	UG/L						< 0.1				
AROCLOR 1221	UG/L						< 0.1				
AROCLOR 1232	UG/L						< 0.1				
AROCLOR 1248	UG/L						< 0.1				
AROCLOR 1260	UG/L						< 0.1				
TECHNICAL CHLORDANE	UG/L						< 0.05				
VOLATILE ORGANIC COMPDUNDS											
METHYLENE CHLORIDE	UG/L	11 A	< 2.0	3.3 A	4.5 A	< 2.0	< 2.0	6.2 A	< 2.0	< 2.0	9.7 A
CHLOROFORM	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-TRICHLORDETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	10	4.8	9.5	10	4.6	5.1	9.0	4.5	5.1	8.0
TETRACHLOROETHYLENE	UG/L	2.8	0.8	2.3	3.0	1.0	1.0	2.7	0.8	0.9	2.8
BROMODICHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BROMOFORM	UG/L	< 1.0	< 1.0	< 1.0	6.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VINYL CHLORIDE	UG/L	3.0	1.7	3.2	3.4	1.3	2.2	2.7	1.5	2.1	< 1.0
O-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
M-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
P-DICHLOROBENZENE	UG/L	4.1	1.7	4.0	4.1	1.4	1.9	3.8	1.7	1.9	4.1
1,1-DICHLOROETHANE	UG/L	7.1	3.3	6.3	7.0	3.1	4.0	6.5	3.3	3.7	5.9
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	1.9	0.7	1.8	1.8	0.5	< 0.5	1.9	0.8	0.8	1.8
BENZENE	UG/L	0.7	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	1.0 A	< 0.5	0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

FOOTNOTES : A-CHECK NOTES TO USER B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ70542 01/12/94	WELL RMW6 SJ71327 01/28/94	WELL RMW6 SJ71985 02/11/94	WELL RMW6 SJ72719 02/25/94	WELL RMW6 SJ73342 03/11/94	WELL RMW6 SJ74076 03/25/94	WELL RMW6 SJ74716 04/08/94	WELL RMW6 SJ75271 04/22/94	WELL RMW6 SJ75532 04/29/94	WELL RMW6 SJ75939 05/06/94
VOLATILE ORGANIC COMPOUNDS											
TRANS-1,2-DICHLOROETHYLEN	UG/L	0.9	< 0.5	0.8	0.9	< 0.5	< 0.5	0.8	< 0.5	< 0.5	0.9
BROMOMETHANE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CHLOROETHANE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-CHLOROETHYLVINYLETHER	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
CHLOROMETHANE	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-DICHLOROPROPANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CIS-1,3-DICHLOROPROPENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
ACROLEIN	UG/L						< 2.5				
ACRYLONITRILE	UG/L						< 1.0				
ACETONE	UG/L						< 5.0				
CIS-1,2-DICHLOROETHYLENE	UG/L	44	31	41	43						
2-BUTANONE	UG/L						< 1.0				
ACID-BASE NEUTRAL EXTRACTABLE											
ACENAPHTHENE	UG/L						< 2				
ACENAPHTHYLENE	UG/L						< 2				
ANTHRACENE	UG/L						< 1				
BENZIDINE	UG/L						< 62				
BENZO(A)ANTHRACENE	UG/L						< 2				
BENZO(A)PYRENE	UG/L						< 7				
BENZO(B)FLUORANTHENE	UG/L						< 2				
BENZO(G,H,I,)PERYLENE	UG/L						< 6				
BENZO(K)FLUORANTHENE	UG/L						< 2				
BIS(2-CL-ETHOXY)METHANE	UG/L						< 3				
BIS(2-CHLOROETHYL)ETHER	UG/L						< 5				
BIS(2-CL-ISOPROPYL)ETHER	UG/L						< 3				
DIETHYLHEXYL PHTHALATE	UG/L						< 10				
4-BROMOPHENYL PHENYLETHER	UG/L						< 9				
BUTYLBENZYL PHTHALATE	UG/L						< 3				
2-CHLORONAPHTHALENE	UG/L						< 1				
4-CHLOROPHENYLPHENYLETHER	UG/L						< 2				
CHRYSENE	UG/L						< 2				
DIBENZO(A,H)ANTHRACENE	UG/L						< 6				
1,2-DICHLOROBENZENE	UG/L						< 10				
1,3-DICHLOROBENZENE	UG/L						< 10				
1,4-DICHLOROBENZENE	UG/L						2				
3,3'-DICHLOROBENZIDINE	UG/L						< 100				
DIETHYL PHTHALATE	UG/L						< 2				
DIMETHYL PHTHALATE	UG/L						< 3				
DI-N-BUTYL PHTHALATE	UG/L						< 4				

FOOTNOTES : A-CHECK NOTES TO USER B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ70542 01/12/94	WELL RMW6 SJ71327 01/28/94	WELL RMW6 SJ71965 02/11/94	WELL RMW6 SJ72719 02/25/94	WELL RMW6 SJ73342 03/11/94	WELL RMW6 SJ74076 03/25/94	WELL RMW6 SJ74716 04/08/94	WELL RMW6 SJ75271 04/22/94	WELL RMW6 SJ75532 04/29/94	WELL RMW6 SJ75939 05/06/94
ACID-BASE NEUTRAL EXTRACTABLE											
2,4-DINITROTOLUENE	UG/L						< 3				
2,6-DINITROTOLUENE	UG/L						< 5				
DI-N-OCTYL PHTHALATE	UG/L						< 5				
1,2-DIPHENYLHYDRAZINE	UG/L						< 1				
FLUORANTHENE	UG/L						< 2				
FLUORENE	UG/L						< 2				
HEXACHLOROBENZENE	UG/L						< 1				
HEXACHLOROBUTADIENE	UG/L						< 10				
HEXACHLOROCYCLOPENTADIENE	UG/L						< 100				
HEXACHLOROETHANE	UG/L						< 12				
INDENO(1,2,3-C,D)PYRENE	UG/L						< 6				
ISOPHORONE	UG/L						< 3				
NAPHTHALENE	UG/L						< 2				
NITROBENZENE	UG/L						< 2				
N-NITROSODIMETHYLAMINE	UG/L						< 30				
N-NITROSODI-N-PROPYLAMINE	UG/L						< 2				
PHENANTHRENE	UG/L						< 1				
PYRENE	UG/L						< 2				
2,3,7,8-TCDD	UG/L						< 3				
2-CHLOROPHENOL	UG/L						< 8				
1,2,4-TRICHLOROBENZENE	UG/L						< 3				
2,4-DICHLOROPHENOL	UG/L						< 3				
2,4-DIMETHYLPHENOL	UG/L						< 3				
2,4-DINITROPHENOL	UG/L						< 39				
2-METHYL-4,6DINITROPHENOL	UG/L						< 17				
2-NITROPHENOL	UG/L						< 5				
4-NITROPHENOL	UG/L						< 6				
4-CHLORO-3-METHYLPHENOL	UG/L						< 2				
PENTACHLOROPHENOL	UG/L						< 16				
PHENOL	UG/L						< 3				
2,4,6-TRICHLOROPHENOL	UG/L						< 2				
N-NITROSODIPHENYLAMINE	UG/L						< 2				

FOOTNOTES : A-CHECK NOTES TO USER B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ76622 05/20/94	WELL RMW6 SJ77006 05/27/94	WELL RMW6 SJ77183 06/03/94	WELL RMW6 SJ77491 06/09/94	WELL RMW6 SJ77862 06/17/94	WELL RMW6 SJ78196 06/24/94	WELL RMW6 SJ78538 07/01/94	WELL RMW6 SJ78791 07/08/94	WELL RMW6 SJ79051 07/15/94	WELL RMW6 SJ79338 07/22/94
FIELD PARAMETERS											
DEPTH TO WATER	FT			54.0	54.0				53.5		
DEPTH TO BOTTOM	FT			90.6	90.6				90.6		
PERCENT METHANE IN GAS	%CH4			< 0.1	< 0.1						
PERCENT OXYGEN IN GAS	%O2			19	19						
FIELD WATER TEMPERATURE	DEG C			22.5							
FIELD PH	PH			6.82							
FIELD CONDUCTIVITY	UMHOS/CM			2120							
FIELD DISSOLVED O2	MG/L			1.5							
FIELD DISSOLVED CO2	MG/L			83.6							
FIELD TOTAL ALKALINITY	MG/L			442							
FIELD HYDROGEN SULFIDE	PPM			< 0.1							
GENERAL											
PH	PH			7.31							
CONDUCTIVITY	UMHOS/CM			2230							
SUSPENDED SOLIDS	MG/L			< 1							
TOTAL DISSOLVED SOLIDS	MG/L			1726							
TOTAL HARDNESS	MG/L CACO3			988 A							
TOTAL CYANIDE	MG/L CN			< 0.01							
PHENOLS	MG/L C6H5OH			0.001							
BORON	MG/L B			0.74							
ANIONS											
NITRATE NITROGEN	MG/L N			< 0.02							
SULFATE	MG/L SO4			707							
CHLORIDE	MG/L CL			111							
TOTAL ALKALINITY	MG/L CACO3			442							
BICARBONATE ALKALINITY	MG/L CACO3			442							
TOTAL PHOSPHATE	MG/L PO4			0.48							
TOTAL SULFIDE	MG/L S			< 0.1							
FLUORIDE	MG/L F			0.77							
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3			497							
MAGNESIUM-HARDNESS	MG/L CACO3			469							
SODIUM	MG/L NA			144							
POTASSIUM	MG/L K			6.5							
IRON	MG/L FE			0.05							
MANGANESE	MG/L MN			5.32							

FOOTNOTES : A-CALCULATED VALUE B-VALUE <MDL, >IDL C-DUPLICATE SPIKE D-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ76622 05/20/94	WELL RMW6 SJ77006 05/27/94	WELL RMW6 SJ77183 06/03/94	WELL RMW6 SJ77491 06/09/94	WELL RMW6 SJ77862 06/17/94	WELL RMW6 SJ78196 06/24/94	WELL RMW6 SJ78538 07/01/94	WELL RMW6 SJ78791 07/08/94	WELL RMW6 SJ79051 07/15/94	WELL RMW6 SJ79338 07/22/94
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N			< 0.1							
TOTAL BOD	MG/L O			< 0.7							
SOLUBLE BOD	MG/L O			< 0.7							
TOTAL COD	MG/L O			5							
SOLUBLE COD	MG/L O			5							
TOTAL ORGANIC CARBON	MG/L C			1.3							
OIL & GREASE	MG/L EXTRAC			< 0.9							
TOTAL ORGANIC HALOGEN(TOX	UG/L			59							
ACETIC ACID	MG/L			< 2.5							
PROPIONIC ACID	MG/L			< 2.0							
ISOBUTYRIC ACID	MG/L			< 2.0							
BUTYRIC ACID	MG/L			< 2.0							
ISOVALERIC ACID	MG/L			< 2.0							
VALERIC ACID	MG/L			< 2.0							
METALS											
ARSENIC	MG/L AS			<0.001							
BARIUM	MG/L BA			0.04							
CADMIUM	MG/L CD			<0.003							
TOTAL CHROMIUM	MG/L CR			< 0.01							
COBALT	MG/L CO			< 0.01							
COPPER	MG/L CU			< 0.01							
LEAD	MG/L PB			< 0.02							
MERCURY	MG/L HG			<.0001							
NICKEL	MG/L NI			0.01							
SELENIUM	MG/L SE			0.001							
SILVER	MG/L AG			< 0.01							
ZINC	MG/L ZN			0.01							
ANTIMONY	MG/L SB			<0.001							
BERYLLIUM	MG/L BE			<.0005							
THALLIUM	MG/L TL			<0.002							
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L			< 0.01							
PP'-DDD	UG/L			< 0.01							
PP'-DDT	UG/L			< 0.01							
ALPHA-BHC	UG/L			< 0.01							
LINDANE (GAMMA-BHC)	UG/L			< 0.01							
HEPTACHLOR	UG/L			< 0.01							
HEPTACHLOR EPOXIDE	UG/L			< 0.01							
ALDRIN	UG/L			< 0.01							

FOOTNOTES : A-CALCULATED VALUE B-VALUE <MDL, >IDL C-DUPLICATE SPIKE D-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ76622 05/20/94	WELL RMW6 SJ77006 05/27/94	WELL RMW6 SJ77183 06/03/94	WELL RMW6 SJ77491 06/09/94	WELL RMW6 SJ77862 06/17/94	WELL RMW6 SJ78196 06/24/94	WELL RMW6 SJ78538 07/01/94	WELL RMW6 SJ78791 07/08/94	WELL RMW6 SJ79051 07/15/94	WELL RMW6 SJ79338 07/22/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
DIELORIN	UG/L			< 0.01							
ENDRIN	UG/L			< 0.01							
TOXAPHENE	UG/L			< 0.5							
METHOXYCLOR	UG/L			< 0.01							
AROCLOR 1242	UG/L			< 0.1							
AROCLOR 1254	UG/L			< 0.05							
BETA-BHC	UG/L			< 0.01							
DELTA-BHC	UG/L			< 0.01							
ENDOSULFAN I	UG/L			< 0.01							
ENDOSULFAN II	UG/L			< 0.01							
ENDOSULFAN SULFATE	UG/L			< 0.1							
ENDRIN ALDEHYDE	UG/L			< 0.01							
AROCLOR 1016	UG/L			< 0.1							
AROCLOR 1221	UG/L			< 0.1							
AROCLOR 1232	UG/L			< 0.1							
AROCLOR 1248	UG/L			< 0.1							
AROCLOR 1260	UG/L			< 0.1							
TECHNICAL CHLORDANE	UG/L			< 0.05							
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0 D	< 1.0
CHLOROFORM	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 0.5 D	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5 D	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3 D	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 C	< 0.5	< 0.5 C	< 0.5 C	< 0.3 D	< 0.3
TRICHLOROETHYLENE	UG/L	4.9	4.2	4.5	3.8	4.6 C	3.8	3.3 C	3.9 C	5.4 D	4.8
TETRACHLOROETHYLENE	UG/L	0.8	0.6	0.9	0.6	1.0	0.6	< 0.5	0.8	0.7 D	0.8
BROMODICHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5 D	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5 D	< 0.5
BROMOFORM	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5 D	< 0.5
CHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 C	< 1.0	< 1.0 C	< 1.0 C	< 0.5 D	< 0.5
VINYL CHLORIDE	UG/L	< 1.0	< 1.0	1.8	1.9	1.9	2.2	2.0	< 1.0	2.1 D	2.4
O-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5 D	< 0.5
M-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5 D	< 0.5
P-DICHLOROBENZENE	UG/L	1.7	1.6	1.7	1.6	2.3	1.7	< 1.0	2.0	2.3 D	2.2
1,1-DICHLOROETHANE	UG/L	3.5	2.8	3.1	2.8	3.3	3.1	3.4	3.0	4.1 D	3.9
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3 D	< 0.3
1,2-DICHLOROETHANE	UG/L	0.8	0.6	1.1	0.8	0.9	0.8	0.8	0.8	1.0 D	1.1
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 C	< 0.5	< 0.5 C	< 0.5 C	< 0.3 D	< 0.3
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 C	< 0.5	< 0.5 C	< 0.5 C	< 0.3 D	< 0.3
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3 D	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.4 D	0.4

FOOTNOTES : A-CALCULATED VALUE B-VALUE <MDL, >IDL C-DUPLICATE SPIKE D-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ73730 03/21/94	WELL M19B SJ78047 06/22/94	WELL M19B SJ82120 09/26/94	WELL M19B SJ86004 12/05/94
FIELD PARAMETERS					
DEPTH TO WATER	FT	34.0	35.1	36.7	37.59
DEPTH TO BOTTOM	FT	73.4	73.4	73.4	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	16	15	18
FIELD WATER TEMPERATURE	DEG C	20.8	21	21.5	19.49
FIELD PH	PH	6.90	6.82	7.22	6.95
FIELD CONDUCTIVITY	UMHOS/CM	3.50	3020	2800	3200
FIELD DISSOLVED O2	MG/L	1.9	4.80	4.8	0.12
FIELD DISSOLVED CO2	MG/L	58.5	81.0	33.4	
FIELD TOTAL ALKALINITY	MG/L	412	410	388	
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	
GENERAL					
PH	PH	8.07	7.35	7.92 A	7.94
CONDUCTIVITY	UMHOS/CM	3260	3190	3150	
SUSPENDED SOLIDS	MG/L	254	49	22	
TOTAL DISSOLVED SOLIDS	MG/L	2736	2772	2732	2645
TOTAL HARDNESS	MG/L CACO3	1610 C	1510 C	1547 C	
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	
PHENOLS	MG/L C6H5OH	0.001	<0.001	0.002	
BORON	MG/L B	0.82	0.67	0.77	
ANIONS					
NITRATE NITROGEN	MG/L N	0.04	< 0.02	< 0.02	< 0.02
SULFATE	MG/L SO4	1450 B	1450	1420 B	1390 B
CHLORIDE	MG/L CL	139 B	132	134 B	132 B
TOTAL ALKALINITY	MG/L CACO3	392	394	392	
BICARBONATE ALKALINITY	MG/L CACO3	392	394	392	
TOTAL PHOSPHATE	MG/L PO4	1.36	0.26	0.18	
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	
FLUORIDE	MG/L F	1.09	1.15	1.13	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	739	712	724 E	
MAGNESIUM-HARDNESS	MG/L CACO3	856	799	823 E	
SODIUM	MG/L NA	266	255	267 E	
POTASSIUM	MG/L K	5.2	4.5	4.4 E	
IRON	MG/L FE	2.13	1.91	1.68 E	
MANGANESE	MG/L MN	0.05	0.080	0.081 E	
SOLUBLE IRON	MG/L FE	0.06			

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ76622 05/20/94	WELL RMW6 SJ77006 05/27/94	WELL RMW8 SJ77183 06/03/94	WELL RMW6 SJ77491 06/09/94	WELL RMW6 SJ77862 06/17/94	WELL RMW6 SJ78196 06/24/94	WELL RMW6 SJ78538 07/01/94	WELL RMW6 SJ78791 07/08/94	WELL RMW6 SJ79051 07/15/94	WELL RMW6 SJ79338 07/22/94
ACID-BASE NEUTRAL EXTRACTABLE											
DI-N-OCTYL PHTHALATE	UG/L			< 50							
1,2-DIPHENYLHYDRAZINE	UG/L			< 10							
FLUORANTHENE	UG/L			< 20							
FLUORENE	UG/L			< 20							
HEXACHLOROBENZENE	UG/L			< 10							
HEXACHLOROBUTADIENE	UG/L			< 100							
HEXACHLOROCYCLOPENTADIENE	UG/L			< 1000							
HEXACHLOROETHANE	UG/L			< 120							
INDENO(1,2,3-C,D)PYRENE	UG/L			< 60							
ISOPHORONE	UG/L			< 30							
NAPHTHALENE	UG/L			< 20							
NITROBENZENE	UG/L			< 20							
N-NITROSODIMETHYLAMINE	UG/L			< 300							
N-NITROSODI-N-PROPYLAMINE	UG/L			< 20							
PHENANTHRENE	UG/L			< 10							
PYRENE	UG/L			< 20							
2,3,7,8-TCDD	UG/L			< 30							
2-CHLOROPHENOL	UG/L			< 80							
1,2,4-TRICHLOROBENZENE	UG/L			< 30							
2,4-DICHLOROPHENOL	UG/L			< 30							
2,4-DIMETHYLPHENOL	UG/L			< 30							
2,4-DINITROPHENOL	UG/L			< 390							
2-METHYL-4,6DINITROPHENOL	UG/L			< 170							
2-NITROPHENOL	UG/L			< 50							
4-NITROPHENOL	UG/L			< 60							
4-CHLORO-3-METHYLPHENOL	UG/L			< 20							
PENTACHLOROPHENOL	UG/L			< 160							
PHENOL	UG/L			< 30							
2,4,6-TRICHLOROPHENOL	UG/L			< 20							
N-NITROSODIPHENYLAMINE	UG/L			< 20							

FOOTNOTES : A-CALCULATED VALUE B-VALUE <MDL, >IDL C-DUPLICATE SPIKE D-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ79712 07/29/94	WELL RMW6 SJ79970 08/05/94	WELL RMW6 SJ80521 08/19/94	WELL RMW6 SJ61427 09/09/94	WELL RMW6 SJ82055 09/23/94	WELL RMW6 SJ82724 10/07/94	WELL RMW6 SJ83705 10/28/94	WELL RMW6 SJ85209 11/11/94	WELL RMW6 SJ85623 11/23/94	WELL RMW6 SJ85931 12/02/94
FIELD PARAMETERS											
DEPTH TO WATER	FT			53.6	53.4	53.2	53.56	55.14			54.94
DEPTH TO BOTTOM	FT			90.6	90.6	90.6	90.69	89.12			90.60
PERCENT METHANE IN GAS	%CH4			< 0.1		< 0.1					< 0.1
PERCENT OXYGEN IN GAS	%O2			19		19					19
FIELD WATER TEMPERATURE	DEG C				23.6						
FIELD PH	PH				6.67						
FIELD CONDUCTIVITY	UMHOS/CM				2130						
FIELD DISSOLVED O2	MG/L				1.00						
FIELD DISSOLVED CO2	MG/L				102.0						
FIELD TOTAL ALKALINITY	MG/L				448						
FIELD HYDROGEN SULFIDE	PPM				< 0.1						
GENERAL											
PH	PH				7.06						
CONDUCTIVITY	UMHOS/CM				2240						
SUSPENDED SOLIDS	MG/L				< 1						
TOTAL DISSOLVED SOLIDS	MG/L				1748						
TOTAL HARDNESS	MG/L CACO3				1080 B						
TOTAL CYANIDE	MG/L CN				< 0.01						
PHENOLS	MG/L C6H5OH				<0.001						
BORON	MG/L B				0.84						
ANIONS											
NITRATE NITROGEN	MG/L N				0.04						
SULFATE	MG/L SO4				751 A						
CHLORIDE	MG/L CL				119 A						
TOTAL ALKALINITY	MG/L CACO3				441						
BICARBONATE ALKALINITY	MG/L CACO3				441						
TOTAL PHOSPHATE	MG/L PO4				0.20						
TOTAL SULFIDE	MG/L S				< 0.1						
FLUORIDE	MG/L F				0.90						
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3				559						
MAGNESIUM-HARDNESS	MG/L CACO3				502						
SODIUM	MG/L NA				160						
POTASSIUM	MG/L K				6.0						
IRON	MG/L FE				0.08						
MANGANESE	MG/L MN				6.07						

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ79712 07/29/94	WELL RMW6 SJ79970 08/05/94	WELL RMW6 SJ80521 08/19/94	WELL RMW6 SJ81427 09/09/94	WELL RMW6 SJ82055 09/23/94	WELL RMW6 SJ82724 10/07/94	WELL RMW6 SJ83705 10/28/94	WELL RMW6 SJ85209 11/11/94	WELL RMW6 SJ85623 11/23/94	WELL RMW6 SJ85931 12/02/94
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N				0.1						
TOTAL BOD	MG/L O				< 0.7						
SOLUBLE BOD	MG/L O				< 0.7						
TOTAL COD	MG/L O				6						
SOLUBLE COD	MG/L O				6						
TOTAL ORGANIC CARBON	MG/L C				2.1						
OIL & GREASE	MG/L EXTRAC				< 0.9						
TOTAL ORGANIC HALOGEN(TOX	UG/L				61						
ACETIC ACID	MG/L				< 2.5						
PROPIONIC ACID	MG/L				< 2.0						
ISOBUTYRIC ACID	MG/L				< 2.0						
BUTYRIC ACID	MG/L				< 2.0 C						
ISOVALERIC ACID	MG/L				< 2.0						
VALERIC ACID	MG/L				< 2.0						
METALS											
ARSENIC	MG/L AS				<0.001						
BARIUM	MG/L BA				0.04						
CADMIUM	MG/L CD				<0.003						
TOTAL CHROMIUM	MG/L CR				< 0.01						
COBALT	MG/L CO				< 0.01						
COPPER	MG/L CU				< 0.01						
LEAD	MG/L PB				< 0.02						
MERCURY	MG/L HG				<.0001						
NICKEL	MG/L NI				< 0.02						
SELENIUM	MG/L SE				<0.001						
SILVER	MG/L AG				< 0.01						
ZINC	MG/L ZN				< 0.01						
ANTIMONY	MG/L SB				<0.001						
BERYLLIUM	MG/L BE				<.0005						
THALLIUM	MG/L TL				<0.002						
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L				< 0.01						
PP'-DDD	UG/L				< 0.01						
PP'-DDT	UG/L				< 0.01						
ALPHA-BHC	UG/L				< 0.01						
LINDANE (GAMMA-BHC)	UG/L				< 0.01						
HEPTACHLOR	UG/L				< 0.01						
HEPTACHLOR EPOXIDE	UG/L				< 0.01						
ALDRIN	UG/L				< 0.01						

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ79712 07/29/94	WELL RMW6 SJ79970 08/05/94	WELL RMW6 SJ80521 08/19/94	WELL RMW6 SJ81427 09/09/94	WELL RMW6 SJ82055 09/23/94	WELL RMW6 SJ82724 10/07/94	WELL RMW6 SJ83705 10/28/94	WELL RMW6 SJ85209 11/11/94	WELL RMW6 SJ85623 11/23/94	WELL RMW6 SJ85931 12/02/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
DIELDRIN	UG/L				< 0.01						
ENDRIN	UG/L				< 0.01						
TOXAPHENE	UG/L				< 0.5						
METHOXYCLOR	UG/L				< 0.01						
AROCLOR 1242	UG/L				< 0.1						
AROCLOR 1254	UG/L				< 0.05						
BETA-BHC	UG/L				< 0.01						
DELTA-BHC	UG/L				< 0.01						
ENDOSULFAN I	UG/L				< 0.01						
ENDOSULFAN II	UG/L				< 0.01						
ENDOSULFAN SULFATE	UG/L				< 0.1						
ENDRIN ALDEHYDE	UG/L				< 0.01						
AROCLOR 1016	UG/L				< 0.1						
AROCLOR 1221	UG/L				< 0.1						
AROCLDR 1232	UG/L				< 0.1						
AROCLOR 1248	UG/L				< 0.1						
AROCLOR 1260	UG/L				< 0.1						
TECHNICAL CHLORDANE	UG/L				< 0.05						
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	5.1	6.3	5.7	4.9	4.8	6.0	5.0	4.2	6.5	2.9
TETRACHLOROETHYLENE	UG/L	0.9	0.9	0.9	0.7	0.7	0.9	0.8	0.6	1.5	0.4
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	2.3	3.0	2.7	2.3	2.0	2.1	1.8	1.7	2.3	1.1
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	2.0	2.4	2.2	2.3	2.4	2.6	2.1	2.1	3.4	1.5
1,1-DICHLOROETHANE	UG/L	3.8	4.2	4.2	3.9	4.2	4.5	4.0	3.4	4.9	2.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	0.8	1.0	0.7	0.7	0.8	< 0.3	0.9	0.9	1.4	0.6
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.6
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	0.3	0.4	0.4	0.4	0.4	< 0.3	0.4	0.3	0.7	< 0.3

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ79712 07/29/94	WELL RMW6 SJ79970 08/05/94	WELL RMW6 SJ80521 08/19/94	WELL RMW6 SJ81427 09/09/94	WELL RMW6 SJ82055 09/23/94	WELL RMW6 SJ82724 10/07/94	WELL RMW6 SJ83705 10/28/94	WELL RMW6 SJ85209 11/11/94	WELL RMW6 SJ85623 11/23/94	WELL RMW6 SJ85931 12/02/94
VOLATILE ORGANIC COMPOUNDS											
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L				< 2.5						
ACRYLONITRILE	UG/L				< 1.0						
ACETONE	UG/L				< 5.0						
2-BUTANONE	UG/L				< 1.0						
ACID-BASE NEUTRAL EXTRACTABLE											
ACENAPHTHENE	UG/L				< 20						
ACENAPHTHYLENE	UG/L				< 20						
ANTHRACENE	UG/L				< 10						
BENZIDINE	UG/L				< 820						
BENZO(A)ANTHRACENE	UG/L				< 20						
BENZO(A)PYRENE	UG/L				< 70						
BENZO(B)FLUORANTHENE	UG/L				< 20						
BENZO(G,H,I,)PERYLENE	UG/L				< 60						
BENZO(K)FLUORANTHENE	UG/L				< 20						
BIS(2-CL-ETHOXY)METHANE	UG/L				< 30						
BIS(2-CHLOROETHYL)ETHER	UG/L				< 50						
BIS(2-CL-ISOPROPYL)ETHER	UG/L				< 30						
DIETHYLHEXYL PHTHALATE	UG/L				< 100						
4-BROMOPHENYL PHENYLETHER	UG/L				< 90						
BUTYLBENZYL PHTHALATE	UG/L				< 30						
2-CHLORONAPHTHALENE	UG/L				< 10						
4-CHLOROPHENYLPHENYLETHER	UG/L				< 20						
CHRYSENE	UG/L				< 20						
DIBENZO(A,H)ANTHRACENE	UG/L				< 60						
1,2-DICHLOROBENZENE	UG/L				< 100						
1,3-DICHLOROBENZENE	UG/L				< 100						
1,4-DICHLOROBENZENE	UG/L				< 20						
3,3'-DICHLOROBENZIDINE	UG/L				< 1000						
DIETHYL PHTHALATE	UG/L				< 20						
DIMETHYL PHTHALATE	UG/L				< 30						
DI-N-BUTYL PHTHALATE	UG/L				< 40						
2,4-DINITROTOLUENE	UG/L				< 30						
2,6-DINITROTOLUENE	UG/L				< 50						

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ79712 07/29/94	WELL RMW6 SJ79970 08/05/94	WELL RMW6 SJ80521 08/19/94	WELL RMW6 SJ81427 09/09/94	WELL RMW6 SJ82055 09/23/94	WELL RMW6 SJ82724 10/07/94	WELL RMW6 SJ83705 10/28/94	WELL RMW6 SJ85209 11/11/94	WELL RMW6 SJ85623 11/23/94	WELL RMW6 SJ85931 12/02/94
ACID-BASE NEUTRAL EXTRACTABLE											
DI-N-OCTYL PHTHALATE	UG/L				< 50						
1,2-DIPHENYLHYDRAZINE	UG/L				< 10						
FLUORANTHENE	UG/L				< 20						
FLUORENE	UG/L				< 20						
HEXACHLOROBENZENE	UG/L				< 10						
HEXACHLOROBUTADIENE	UG/L				< 100						
HEXACHLOROCYCLOPENTADIENE	UG/L				< 1000						
HEXACHLOROETHANE	UG/L				< 120						
INDENO(1,2,3-C,D)PYRENE	UG/L				< 60						
ISOPHORONE	UG/L				< 30						
NAPHTHALENE	UG/L				< 20						
NITROBENZENE	UG/L				< 20						
N-NITROSODIMETHYLAMINE	UG/L				< 300						
N-NITROSODI-N-PROPYLAMINE	UG/L				< 20						
PHENANTHRENE	UG/L				< 10						
PYRENE	UG/L				< 20						
2,3,7,8-TCDD	UG/L				< 30						
2-CHLOROPHENOL	UG/L				< 80						
1,2,4-TRICHLOROBENZENE	UG/L				< 30						
2,4-DICHLORDPHENOL	UG/L				< 30						
2,4-DIMETHYLPHENOL	UG/L				< 30						
2,4-DINITROPHENOL	UG/L				< 390						
2-METHYL-4,6DINITROPHENOL	UG/L				< 170						
2-NITROPHENOL	UG/L				< 50						
4-NITROPHENOL	UG/L				< 60						
4-CHLORO-3-METHYLPHENOL	UG/L				< 20						
PENTACHLOROPHENOL	UG/L				< 160						
PHENOL	UG/L				< 30						
2,4,6-TRICHLOROPHENOL	UG/L				< 20						
N-NITROSODIPHENYLAMINE	UG/L				< 20						

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ86897 12/30/94		WELL RMW6 SJ86898 12/30/94	
FIELD PARAMETERS					
DEPTH TO WATER	FT	53.96			
PERCENT METHANE IN GAS	%CH4	< 0.1			
PERCENT OXYGEN IN GAS	%O2	19			
FIELD WATER TEMPERATURE	DEG C	22			
FIELD PH	PH	6.6			
FIELD CONDUCTIVITY	UMHOS/CM	2164			
FIELD DISSOLVED O2	MG/L	1.9			
GENERAL					
PH	PH	7.17	A	7.08	
TOTAL DISSOLVED SOLIDS	MG/L	1724	B	1726	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02	C	< 0.02	
SULFATE	MG/L SO4	754	D	762	D
CHLORIDE	MG/L CL	118	D	118	D
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L	< 1		< 1	
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01		< 0.01	
T-1,4-DICHLORO-2-BUTENE	UG/L	< 4		< 4	
METHYL IODIDE	UG/L	< 1		< 1	
METHYLENE BROMIDE	UG/L	< 1		< 1	
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1		< 1	
1,2,3-TRICHLOROPROPANE	UG/L	< 1		< 1	
METHYLENE CHLORIDE	UG/L	< 3		< 3	
CHLOROFORM	UG/L	< 0.5		< 0.5	
1,1,1-TRICHLOROETHANE	UG/L	< 0.5		< 0.5	
CARBON TETRACHLORIDE	UG/L	< 0.5		< 0.5	
1,1-DICHLOROETHENE	UG/L	< 0.5		< 0.5	
TRICHLOROETHYLENE	UG/L	3.8		3.8	
TETRACHLOROETHYLENE	UG/L	0.6		0.6	
BROMODICHLOROMETHANE	UG/L	< 0.5		< 0.5	
DIBROMOCHLOROMETHANE	UG/L	< 0.5		< 0.5	
BROMOFORM	UG/L	< 0.5		< 0.5	
CHLOROBENZENE	UG/L	< 0.5		< 0.5	
VINYL CHLORIDE	UG/L	1.9		1.9	
O-DICHLOROBENZENE	UG/L	< 0.5		< 0.5	
P-DICHLOROBENZENE	UG/L	2.4		2.6	
1,1-DICHLOROETHANE	UG/L	3.7		3.8	

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL RMW6 SJ86897 12/30/94	WELL RMW6 SJ86898 12/30/94
VOLATILE ORGANIC COMPOUNDS				
1,1,2-TRICHLOROETHANE	UG/L		< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L		1.1	1.1
BENZENE	UG/L		< 0.5	< 0.5
TOLUENE	UG/L		6.4	6.4
ETHYL BENZENE	UG/L		< 0.5	< 0.5
VINYL ACETATE	UG/L		< 10	< 10
O-XYLENE	UG/L		< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 0.5	< 0.5
BROMOMETHANE	UG/L		< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 50	< 50
FREON 11 (CCL3F)	UG/L		< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		37	36
2-BUTANONE	UG/L		< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10
STYRENE	UG/L		< 0.5	< 0.5
M+P-XYLENE	UG/L		< 0.5	< 0.5
CARBON DISULFIDE	UG/L	CS2	< 0.5	< 0.5
2-HEXANONE	UG/L	C6H12O	< 10	< 10

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ73455 03/15/94	WELL MW7 SJ77866 06/17/94	WELL MW7 SJ82057 09/23/94
FIELD PARAMETERS				
DEPTH TO WATER	FT	56.0	56.0	56.1
DEPTH TO BOTTOM	FT	57.4	57.4	57.4
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	19	19
FIELD WATER TEMPERATURE	DEG C	21.6	22.3	23.0
FIELD PH	PH	7.37	7.02	7.18
FIELD CONDUCTIVITY	UMHOS/CM	1689	1710	2030
FIELD DISSOLVED O2	MG/L	2.8	3.00	4.0
FIELD DISSOLVED CO2	MG/L	65.2	75.2	79.2
FIELD TOTAL ALKALINITY	MG/L	598	724	734
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1
GENERAL				
TOTAL CYANIDE	MG/L CN	< 0.01		< 0.01
PHENOLS	MG/L C6H5OH	0.006		
BORON	MG/L B	0.66	1.08	0.83
ANIONS				
SULFATE	MG/L SO4	286		
CHLORIDE	MG/L CL	170		
TOTAL PHOSPHATE	MG/L PO4			9.60
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.72	0.82	0.74
ORGANIC MATTER				
TOTAL ORGANIC CARBON	MG/L C	18	14	24
OIL & GREASE	MG/L EXTRAC	< 0.9		1.0
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
PP'-DDE	UG/L		< 0.01	
PP'-DOD	UG/L		< 0.01	
PP'-DDT	UG/L		< 0.01	
ALPHA-BHC	UG/L		< 0.01	
LINDANE (GAMMA-BHC)	UG/L		< 0.01	
HEPTACHLOR	UG/L		< 0.01	
HEPTACHLOR EPOXIDE	UG/L		< 0.01	
ALDRIN	UG/L		< 0.01	
DIELDRIN	UG/L		< 0.01	
ENDRIN	UG/L		< 0.01	

FOOTNOTES : A-ND = NONE DETECTED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ73455 03/15/94	WELL MW7 SJ77866 06/17/94	WELL MW7 SJ82057 09/23/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
TOXAPHENE	UG/L		< 0.5	
METHOXYCLOR	UG/L		< 0.01	
AROCLOR 1242	UG/L		< 0.1	
AROCLOR 1254	UG/L		< 0.05	
BETA-BHC	UG/L		< 0.01	
DELTA-BHC	UG/L		< 0.01	
CIS-CHLORDANE	UG/L		< 0.01	
TRANS-CHLORDANE	UG/L		< 0.01	
TRANS-NONACHLOR	UG/L		< 0.01	
OXYCHLORDANE	UG/L		< 0.01	
TOTAL DETECTED CHLORDANES	UG/L		A	
ENDOSULFAN I	UG/L		< 0.01	
ENDOSULFAN II	UG/L		< 0.01	
ENDOSULFAN SULFATE	UG/L		< 0.1	
ENDRIN ALDEHYDE	UG/L		< 0.01	
AROCLOR 1016	UG/L		< 0.1	
AROCLOR 1221	UG/L		< 0.1	
AROCLOR 1232	UG/L		< 0.1	
AROCLOR 1248	UG/L		< 0.1	
AROCLOR 1260	UG/L		< 0.1	
VOLATILE ORGANIC COMPOUNDS				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	0.3	0.4
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	1.4
VINYL CHLORIDE	UG/L	< 0.5	1.0	2.1
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	0.7	2.9
1,1-DICHLOROETHANE	UG/L	0.3	1.0	1.4
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-ND = NONE DETECTED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW7 SJ73455 03/15/94	WELL MW7 SJ77866 06/17/94	WELL MW7 SJ82057 09/23/94
VOLATILE ORGANIC COMPOUNDS				
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L	1.2		
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0

FOOTNOTES : A-ND = NONE DETECTED

APPENDIX A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M24A SJ73921 03/23/94	WEFI M24A SJ78113 06/23/94	WEFI M24A SJ82118 09/26/94
ANIONS				
SULFATE	MG/L SO4	298		
CHLORIDE	MG/L CL	17.6		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	415	517	452
MAGNESIUM-HARDNESS	MG/L CACO3	163	186	168
SODIUM	MG/L NA	43.2	39.2	39.7
POTASSIUM	MG/L K	7.2	7.3	6.7
IRON	MG/L FE	0.18	0.32	0.38
MANGANESE	MG/L MN	0.42	0.436	0.41
METALS				
ARSENIC	MG/L AS	<0.001	<0.001	<0.001
BARIUM	MG/L BA	0.06	0.06	0.06
CADMIUM	MG/L CD	<0.005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	.0001 A	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	1.21	1.09	1.86
ANTIMONY	MG/L SB	0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002
TIN	MG/L SN			< 0.06
VANADIUM	MG/L V			< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ73925 03/23/94	WELL M24A SJ78116 06/23/94	WELL M24A SJ82122 09/26/94	WELL M24A SJ85889 12/01/94
FIELD PARAMETERS					
DEPTH TO WATER	FT	54.3	55.0	57.7	54.84
DEPTH TO BOTTOM	FT	84.8	84.8	84.8	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%02	15	19	21	18
FIELD WATER TEMPERATURE	DEG C	18.7	25.0	23.1	20.72
FIELD PH	PH	7.01	7.10	7.19	8.16
FIELD CONDUCTIVITY	UMHOS/CM	993	1287	1192	1276
FIELD DISSOLVED 02	MG/L	6.80	1.6	5.8	0.13
FIELD DISSOLVED CO2	MG/L	38.7	41.8	26.8	
FIELD TOTAL ALKALINITY	MG/L	322	310	306	
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	
GENERAL					
PH	PH	7.94 A	7.37	7.87	7.21
CONDUCTIVITY	UMHOS/CM	1230	1340	1190	
SUSPENDED SOLIDS	MG/L	53	7	5	
TOTAL DISSOLVED SOLIDS	MG/L	896	1081	973	960
TOTAL HARDNESS	MG/L CACO3	590 B	709 B	609 B	
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	
PHENOLS	MG/L C6H5OH	0.007	0.003	0.002	
BORON	MG/L B	0.22	0.31	0.31	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02	< 0.02	< 0.02 E	< 0.02 E
SULFATE	MG/L SO4	311	451	363 E	426 E
CHLORIDE	MG/L CL	18.2	16.0	17.4 E	16.3 E
TOTAL ALKALINITY	MG/L CACO3	304	307	303	
BICARBONATE ALKALINITY	MG/L CACO3	304	307	303	
TOTAL PHOSPHATE	MG/L PO4	0.16	0.18	0.18	
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	
FLUORIDE	MG/L F	1.16	1.14	1.14	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	427	522	439	
MAGNESIUM-HARDNESS	MG/L CACO3	163	187	170	
SODIUM	MG/L NA	44.5	38.7	40.2	
POTASSIUM	MG/L K	7.3	7.3	6.7	
IRON	MG/L FE	0.95	0.37	1.04	
MANGANESE	MG/L MN	0.40	0.440	0.46	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-AVERAGE
F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ73925 03/23/94	WELL M24A SJ78116 06/23/94	WELL M24A SJ82122 09/26/94	WELL M24A SJ85889 12/01/94
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	
TOTAL BOD	MG/L O	< 0.7	< 0.7	< 0.7	
SOLUBLE BOD	MG/L O	< 0.7	< 0.7	< 0.7	
TOTAL COD	MG/L O	< 2 C	< 2	3	
SOLUBLE COD	MG/L O	< 2	< 2	2	
TOTAL ORGANIC CARBON	MG/L C	0.46	0.18	0.43	
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9	< 0.9	
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 3.0	< 3.0	4.8 F	
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5	
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
VALERIC ACID	MG/L	< 2.0	< 2.0	2.0	
METALS					
ARSENIC	MG/L AS	<0.001	<0.001	<0.001	
BARIUM	MG/L BA	0.06	0.06	0.07	
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02			
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001	<.0001	
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02	
SELENIUM	MG/L SE	<0.001	<0.001	<0.001	
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	
ZINC	MG/L ZN	1.03	1.09	2.64	
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001	
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	

FOOTNOTE : A-AVERAGE OF DUPS. B-CALCULATED VALUE C-DUP & SPIKE [illegible] E-AVERAGE
F-10% RULE EXCEEDED G-VALUE [illegible]

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ73925 03/23/94	WELL M24A SJ78116 06/23/94	WELL M24A SJ82122 09/26/94	WELL M24A SJ85889 12/01/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L				< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2
METHYL IODIDE	UG/L				< 0.5
METHYLENE BROMIDE	UG/L				< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3 D	< 0.3	< 0.3	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3 D	< 0.3	< 0.3	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5 D	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-AVERAGE
F-10X RULE EXCEEDED G VALUE <MDL, 1/2

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M24A SJ73925 03/23/94	WELL M24A SJ78116 06/23/94	WELL M24A SJ82122 09/26/94	WELL M24A SJ85889 12/01/94
VOLATILE ORGANIC COMPOUNDS						
P-DICHLOROBENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.5
BENZENE	UG/L		< 0.3 D	< 0.3	< 0.3	< 0.5
TOLUENE	UG/L		< 0.3 D	< 0.3	< 0.3	< 0.5
ETHYL BENZENE	UG/L		< 0.3	< 0.3	< 0.3	< 0.5
VINYL ACETATE	UG/L					< 10
O-XYLENE	UG/L					< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 0.3	< 0.3	< 0.3	< 0.5
BROMOMETHANE	UG/L		< 2.5	< 2.5	< 2.5	< 1
CHLOROETHANE	UG/L		< 2.5	< 2.5	< 2.5	< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1.0	< 1.0	< 1.0	
CHLOROMETHANE	UG/L		< 2.5	< 2.5	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L		< 2.5	< 2.5	< 2.5	
ACRYLONITRILE	UG/L		< 1.0	< 1.0	< 1.0	< 50
FREON 11 (CCL3F)	UG/L					< 1
1,2-DIBROMOETHANE	UG/L					< 0.01
ACETONE	UG/L		< 5.0	< 5.0	< 5.0	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L					< 0.5
2-BUTANONE	UG/L		< 1.0	< 1.0	< 1.0	< 10
4-METHYL-2-PENTANONE	UG/L					< 10
STYRENE	UG/L					< 0.5
M+P-XYLENE	UG/L					< 0.5
CARBON DISULFIDE	UG/L	CS2				< 0.5
2-HEXANONE	UG/L	C6H12O				< 10
ACID-BASE NEUTRAL EXTRACTABLE						
ACENAPHTHENE	UG/L		< 2	[illegible]	< 2	
ACENAPHTHYLENE	UG/L		< 2	< 2	< 2	
ANTHRACENE	UG/L		< 1	< 1	< 1	
BENZIDINE	UG/L		< 62	< 62	< 62	
BENZO(A)ANTHRACENE	UG/L		< 2	< 2	< 2	
BENZO(A)PYRENE	UG/L		< 7	< 7	< 7	
BENZO(B)FLUORANTHENE	UG/L		< 2	< 2	< 2	
BENZO(G,H,I)PERYLENE	UG/L		[illegible]	[illegible]	< 6	
BENZO(K)FLUORANTHENE	UG/L		[illegible]	[illegible]	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L		[illegible]	[illegible]	< 3	

FOOTNOTE : A-AVERAGE OF DUPS. B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-AVERAGE
F-RULE EXCEEDED G-VALUE MDL-TIC

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ73925 03/23/94	WELL M24A SJ78116 06/23/94	WELL M24A SJ82122 09/26/94	WELL M24A SJ85889 12/01/94
ACID-BASE NEUTRAL EXTRACTABLE					
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	0.5 G	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	
CHRYSENE	UG/L	< 2	< 2	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3	
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5	
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1	
FLUORANTHENE	UG/L	< 2	< 2	< 2	
FLUORENE	UG/L	< 2	< 2	< 2	
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100	
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6	
ISOPHORONE	UG/L	< 3	< 3	< 3	
NAPHTHALENE	UG/L	< 2	< 2	< 2	
NITROBENZENE	UG/L	< 2	< 2	< 2	
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2	
PHENANTHRENE	UG/L	< 1	< 1	< 1	
PYRENE	UG/L	< 2	< 2	< 2	
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3	
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8	
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3	
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3	
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3	
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39	
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17	
2-NITROPHENOL	UG/L	< 5	< 5	< 5	
4-NITROPHENOL	UG/L	< 6	< 6	< 6	

FOOTNOTES : A-AVERAGE OF DUPS. B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-AVERAGE
F-10% RULE EXCEEDED G-VALUE >MDL, <RDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ73925 03/23/94	WELL M24A SJ78116 06/23/94	WELL M24A SJ82122 09/26/94	WELL M24A SJ85889 12/01/94
ACID-BASE NEUTRAL EXTRACTABLE					
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2	
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16	
PHENOL	UG/L	< 3	< 3	< 3	
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2	
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE E-AVERAGE
F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M27B SJ73922 03/23/94	WEFI M27B SJ78114 08/23/94	WEFI M27B SJ82119 09/26/94							
ANIONS											
SULFATE	MG/L SO4	284									
CHLORIDE	MG/L CL	13.3									
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3	449	427	429							
MAGNESIUM-HARDNESS	MG/L CACO3	148	142	144							
SODIUM	MG/L NA	26.4	25.5	25.9							
POTASSIUM	MG/L K	6.4	6.1	5.7							
IRON	MG/L FE	0.03	0.02	0.10							
MANGANESE	MG/L MN	0.38	0.358	0.347							
METALS											
ARSENIC	MG/L AS	<0.001	<0.001	<0.001							
BARIUM	MG/L BA	0.05	0.05	0.05							
CADMIUM	MG/L CD	<0.005	<0.003	<0.003							
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01							
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01							
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01							
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02							
MERCURY	MG/L HG	<.0001	<.0001	<.0001 A							
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02							
SELENIUM	MG/L SE	<0.001	<0.001	<0.001							
SILVER	MG/L AG	<0.005	< 0.01	< 0.01							
ZINC	MG/L ZN	0.04	< 0.01	< 0.01							
ANTIMONY	MG/L SB	0.001	<0.001	<0.001							
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005							
THALLIUM	MG/L TL	<0.002	<0.002	<0.002							
TIN	MG/L SN			< 0.06							
VANADIUM	MG/L V			< 0.05							

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ73926 03/23/94	WELL M27B SJ78117 06/23/94	WELL M27B SJ82123 09/26/94	WELL M27B SJ85890 12/01/94
FIELD PARAMETERS					
DEPTH TO WATER	FT	59.0	55.7	55.1	55.69
DEPTH TO BOTTOM	FT	82.1	82.1	82.1	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	16	15	17	17
FIELD WATER TEMPERATURE	DEG C	20.7	27.4	23.0	20.72
FIELD PH	PH	6.89	7.07	6.39	6.89
FIELD CONDUCTIVITY	UMHOS/CM	991	1043	968	970
FIELD DISSOLVED O2	MG/L	6.50	6.0	6.0	1.11
FIELD DISSOLVED CO2	MG/L	37.0	31.8	28.4	
FIELD TOTAL ALKALINITY	MG/L	316	300	310	
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	
GENERAL					
PH	PH	7.90	7.48	7.95	7.29
CONDUCTIVITY	UMHOS/CM	1100	1070	1050 D	
SUSPENDED SOLIDS	MG/L	14	19 D	7 D	
TOTAL DISSOLVED SOLIDS	MG/L	776	840	831	746
TOTAL HARDNESS	MG/L CACO3	597 A	564 A	593 A	
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	
PHENOLS	MG/L C6H5OH	0.002	0.003	0.001	
BORON	MG/L B	0.19	0.49	0.33	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02	< 0.02	< 0.02 F	< 0.02
SULFATE	MG/L SO4	290	270	275 F	264 F
CHLORIDE	MG/L CL	14.2	14.9	15.0 F	14.6 F
TOTAL ALKALINITY	MG/L CACO3	306	309	309 E	
BICARBONATE ALKALINITY	MG/L CACO3	306	309	309	
TOTAL PHOSPHATE	MG/L PO4	0.16	0.14	0.08	
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1 D	
FLUORIDE	MG/L F	1.00	1.10	1.04	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	447 B	422	447	
MAGNESIUM-HARDNESS	MG/L CACO3	150 B	142	146	
SODIUM	MG/L NA	26.6 B	25.1	26.5	
POTASSIUM	MG/L K	6.3 B	6.0	5.6	
IRON	MG/L FE	0.61 B	0.44	0.32	
MANGANESE	MG/L MN	0.36 B	0.373	0.377	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-CHECK NOTES TO USER D-AVERAGE OF DUPS E-DUP & SPIKE
F-AVERAGE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ73926 03/23/94	WELL M27B SJ78117 06/23/94	WELL M27B SJ82123 09/26/94	WELL M27B SJ85890 12/01/94
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	
TOTAL BOD	MG/L O	< 0.7	< 0.7	< 0.7	
SOLUBLE BOD	MG/L O	< 0.7	< 0.7	< 0.7 D	
TOTAL COD	MG/L O	< 2	< 2	2	
SOLUBLE COD	MG/L O	< 2	< 2 E	2	
TOTAL ORGANIC CARBON	MG/L C	0.58 B	0.34	0.32	
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9	< 0.9	
TOTAL ORGANIC HALOGEN(TOX	UG/L	4.2 C	< 3.0 B	4.3 G	
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5	
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
METALS					
ARSENIC	MG/L AS	<0.001	<0.001	<0.001	
BARIUM	MG/L BA	0.05 B	0.05	0.05	
CADMIUM	MG/L CD	<0.005 B	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.02 B	< 0.01	< 0.01	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02			
COBALT	MG/L CO	< 0.04 B	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.02 B	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.04 B	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001 B	<.0001	
NICKEL	MG/L NI	< 0.03 B	< 0.02	< 0.02	
SELENIUM	MG/L SE	<0.001	<0.001	<0.001	
SILVER	MG/L AG	<0.005 B	< 0.01	< 0.01	
ZINC	MG/L ZN	0.04 B	< 0.01	< 0.01	
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001	
BERYLLIUM	MG/L BE	<.0005 B	<.0005	<.0005	
THALLIUM	MG/L TL	<0.002 B	<0.002	<0.002	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-CHECK NOTES TO USER D-AVERAGE OF DUPS E-DUP & SPIKE
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1254	UG/L	< 0.05	< 0.5	< 0.05	
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L				< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2
METHYL IODIDE	UG/L				< 0.5
METHYLENE BROMIDE	UG/L				< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3 B	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3 B	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5 B	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-CHECK NOTES TO USE D-AVERAGE OF DUPS E-DUP & SPIKE
E-AVERAGE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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VOLATILE ORGANIC COMPOUNDS					
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.3 B	< 0.5
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3 B	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
VINYL ACETATE	UG/L				< 10
O-XYLENE	UG/L				< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 50
FREON 11 (CCL3F)	UG/L				< 1
1,2-DIBROMOETHANE	UG/L				< 0.01
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L				< 0.5
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 10
4-METHYL-2-PENTANONE	UG/L				< 10
STYRENE	UG/L				< 0.5
M+P-XYLENE	UG/L				< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5
2-HEXANONE	UG/L C6H12O				< 10
ACID-BASE NEUTRAL EXTRACTABLE					
ACENAPHTHENE	UG/L	< 2	< 2	< 2	
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	
ANTHRACENE	UG/L	< 1	< 1	< 1	
BENZIDINE	UG/L	< 62	< 62	< 62	
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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ACID-BASE NEUTRAL EXTRACTABLE					
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	< 10	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	
CHRYSENE	UG/L	< 2	< 2	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3	
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5	
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1	
FLUORANTHENE	UG/L	< 2	< 2	< 2	
FLUORENE	UG/L	< 2	< 2	< 2	
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100	
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6	
ISOPHORONE	UG/L	< 3	< 3	< 3	
NAPHTHALENE	UG/L	< 2	< 2	< 2	
NITROBENZENE	UG/L	< 2	< 2	< 2	
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2	
PHENANTHRENE	UG/L	< 1	< 1	< 1	
PYRENE	UG/L	< 2	< 2	< 2	
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3	
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8	
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3	
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3	
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3	
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39	
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17	
2-NITROPHENOL	UG/L	< 5	< 5	< 5	
4-NITROPHENOL	UG/L	< 6	< 6	< 6	

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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ACID-BASE NEUTRAL EXTRACTABLE					
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2	
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16	
PHENOL	UG/L	< 3	< 3	< 3	
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2	
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2	

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ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	0.3	< 0.1		
TOTAL BOD	MG/L O	< 0.7	< 0.7	1		
SOLUBLE BOD	MG/L O	< 0.7 C	< 0.7 C	< 0.7		
TOTAL COD	MG/L O	< 2	11	11		
SOLUBLE COD	MG/L O	< 2	2	5		
TOTAL ORGANIC CARBON	MG/L C	1.3	1.6 A	0.95		
OIL & GREASE	MG/L EXTRAC	< 0.9 A	0.9	< 0.9		
TOTAL ORGANIC HALOGEN(TOX	UG/L	4.1	3.2	14 F		
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5		
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
METALS						
ARSENIC	MG/L AS	0.001	0.002	0.002		
BARIUM	MG/L BA	0.09	0.18 A	0.08 A		
CADMIUM	MG/L CD	<0.005	<0.003 A	<0.003 A		
TOTAL CHROMIUM	MG/L CR	< 0.02	0.02 A	0.02 A		
HEXAVALENT CHROMIUM	MG/L CR	< 0.02				
COBALT	MG/L CO	< 0.04	< 0.01 A	0.01 A		
COPPER	MG/L CU	< 0.02	0.02 A	0.01 A		
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02 A		
MERCURY	MG/L HG	<.0001	<.0001	<.0001		
NICKEL	MG/L NI	< 0.03	< 0.02 A	0.04 A		
SELENIUM	MG/L SE	<0.001	<0.001	0.002		
SILVER	MG/L AG	<0.005	< 0.01	< 0.01 A		
ZINC	MG/L ZN	0.06	0.07 A	0.05 A		
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001		
BERYLLIUM	MG/L BE	<.0005	.0005 A	<.0005		
THALLIUM	MG/L TL	<0.002	<0.002 A	<0.002		
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01		
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01		
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01		
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01		
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01		
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01		

FOOTNOTE A-DUPLICATE SPIKE B-CALCULATED C-[illegible] D-AVERAGE OF DUP. E-DUP & SPIKE E-AVERAGE
F-10X RULE EXCEEDED G-VALUE MDL, ID

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01		
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01		
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01		
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5		
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01		
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05		
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1		
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01		
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1		
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05		
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L				< 0.5	< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2	< 2
METHYL IODIDE	UG/L				< 0.5	< 0.5
METHYLENE BROMIDE	UG/L				< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5		

FOOTNOTE : A-DUPLICATE SPIKE B-CALCULATED VALUE [illegible] [illegible] E-AVERAGE
F-10% RULE EXCEEDED G-VALUE [illegible] MDL, [illegible]

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ73927 03/23/94	WELL M29B SJ78118 06/23/94	WELL M29B SJ82270 09/28/94	WELL M29B SJ86018 12/06/94	WELL M29B SJ86019 12/06/94
VOLATILE ORGANIC COMPOUNDS						
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
VINYL ACETATE	UG/L				< 10	< 10
O-XYLENE	UG/L				< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0		
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5		
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 50	< 50
FREON 11 (CCL3F)	UG/L				< 1	< 1
1,2-DIBROMOETHANE	UG/L				< 0.01	< 0.01
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L				< 0.5	< 0.5
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 10	< 10
4-METHYL-2-PENTANONE	UG/L				< 10	< 10
STYRENE	UG/L				< 0.5	< 0.5
M+P-XYLENE	UG/L				< 0.5	< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5	< 0.5
2-HEXANONE	UG/L C6H12O				< 10	< 10
ACID-BASE NEUTRAL EXTRACTABLE						
ACENAPHTHENE	UG/L	< 2	< 2	< 2		
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2		
ANTHRACENE	UG/L	< 1	< 1	< 1		
BENZIDINE	UG/L	< 62	< 62	< 62		
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2		
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7		
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2		
BENZO(G,H,I)PERYLENE	UG/L	< 6	< 6	< 6		
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2		
BIS(2-CHLOROETHOXY)METHANE	UG/L	< 3	< 3	< 3		

FOOTNOTE : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AVERAGE
F-MCL RULE EXCEEDED G-VALUE <MDL, USED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ73927 03/23/94	WELL M29B SJ78118 06/23/94	WELL M29B SJ82270 09/28/94	WELL M29B SJ86018 12/06/94	WELL M29B SJ86019 12/06/94
ACID-BASE NEUTRAL EXTRACTABLE						
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5		
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3		
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	4 G		
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9		
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3		
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1		
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2		
CHRYSENE	UG/L	< 2	< 2	< 2		
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6		
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10		
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10		
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2		
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100		
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2		
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3		
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4		
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3		
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5		
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5		
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1		
FLUORANTHENE	UG/L	< 2	< 2	< 2		
FLUORENE	UG/L	< 2	< 2	< 2		
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1		
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10		
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100		
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12		
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6		
ISOPHORONE	UG/L	< 3	< 3	< 3		
NAPHTHALENE	UG/L	< 2	< 2	< 2		
NITROBENZENE	UG/L	< 2	< 2	< 2		
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30		
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2		
PHENANTHRENE	UG/L	< 1	< 1	< 1		
PYRENE	UG/L	< 2	< 2	< 2		
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3		
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8		
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3		
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3		
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3		
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39		
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17		
2-NITROPHENOL	UG/L	< 5	< 5	< 5		
4-NITROPHENOL	UG/L	< 6	< 6	< 6		

FOOTNOTE : A-DUPLICATE SPIKE B CALCULATED VALUE C-AVERAGE OF DUPS. D-DUP. A SPIKE E-AVERAGE
F-1GX RULE EXCEEDED G-VALUE >MDL, <IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ73927 03/23/94	WELL M29B SJ78118 06/23/94	WELL M29B SJ82270 09/28/94	WELL M29B SJ86018 12/06/94	WELL M29B SJ86019 12/06/94
ACID-BASE NEUTRAL EXTRACTABLE						
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2		
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16		
PHENOL	UG/L	< 3	< 3	< 3		
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2		
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2		

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AVERAGE
F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

APPENDIX A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EW3-SJ74077 03/25/94	WEFI EW3-SJ77493 06/09/94	WEFI EW3-SJ82267 09/28/94
ANIONS				
SULFATE	MG/L SO4	1320		
CHLORIDE	MG/L CL	358		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	976	784	911
MAGNESIUM-HARDNESS	MG/L CACO3	1100	745	959
SODIUM	MG/L NA	270	216	242
POTASSIUM	MG/L K	7.2	5.8	6.3
IRON	MG/L FE	0.05	0.13	0.59
MANGANESE	MG/L MN	1.18	0.777	1.56
METALS				
ARSENIC	MG/L AS	0.001	0.001	0.002
BARIUM	MG/L BA	0.04	0.04	0.05
CADMIUM	MG/L CD	<0.005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.01	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01	< 0.01
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005 A	<.0005 A
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 A

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ71324 01/28/94	WELL EW3-SJ71325 01/28/94	WELL EW3-SJ71968 02/11/94	WELL EW3-SJ74078 03/25/94	WELL EW3-SJ74718 04/08/94	WELL EW3-SJ75942 05/08/94	WELL EW3-SJ77496 06/09/94	WELL EW3-SJ78790 07/08/94	WELL EW3-SJ80520 08/19/94	WELL EW3-SJ82271 09/28/94
FIELD PARAMETERS											
FIELD WATER TEMPERATURE	DEG C	21		22.5	19	23	20.8	27	24	24	2.43
FIELD PH	PH	6.60		6.69	6.71	6.82	6.91	6.91	6.75	6.50	6.63
FIELD CONDUCTIVITY	UMHOS/CM	3380		2930	3140	2810	2780	2810	3070	3170	3340
FIELD DISSOLVED O2	MG/L	3.2		3.10	3.20	3.10	4.8	3.1	2.20	1.8	2.1
FIELD DISSOLVED CO2	MG/L	137.3		153.1	142.6	105.6	85.3	81.9	148.9	1690	150.5
FIELD TOTAL ALKALINITY	MG/L	736		754	778	744	730	742	702	744	736
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
GENERAL											
PH	PH	7.77	7.77	6.8	7.46	7.72	7.37	7.49	7.29	7.54	7.71
CONDUCTIVITY	UMHOS/CM				3860			3380			3480
SUSPENDED SOLIDS	MG/L				5			11	< 1		22
TOTAL DISSOLVED SOLIDS	MG/L	2832	2830	2892	3164 A	2608 A	2792	2710 A		2724	2757 A
TOTAL HARDNESS	MG/L CACO3				1980 B			1682 B			1810 B
TOTAL CYANIDE	MG/L CN				< 0.01			< 0.01			F
PHENOLS	MG/L C8H5OH				0.008			<0.001			0.001
BORON	MG/L B				1.01			1.19			0.67
ANIONS											
NITRATE NITROGEN	MG/L N				0.13			0.13			0.21 E
SULFATE	MG/L SO4	1120	1110	1100	1270	1020	1010	987	948	1020 E	1020 E
CHLORIDE	MG/L CL	287	287	282	343	259	282	252	245	269 E	279 E
TOTAL ALKALINITY	MG/L CACO3				793			723			757
BICARBONATE ALKALINITY	MG/L CACO3				793			723			757
TOTAL PHOSPHATE	MG/L PO4				0.54			0.34			0.58
TOTAL SULFIDE	MG/L S				< 0.1			< 0.1			< 0.1
FLUORIDE	MG/L F				0.85			0.85			0.96
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3				936 D			834			889
MAGNESIUM-HARDNESS	MG/L CACO3				1040 D			848			922
SODIUM	MG/L NA				254 D			229			242
POTASSIUM	MG/L K				6.9 D			6.2			6.4
IRON	MG/L FE				0.24 D			0.25			1.15
MANGANESE	MG/L MN				1.10 O			1.13			1.32
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N				< 0.1			< 0.1			< 0.1
TOTAL BOD	MG/L O	< 0.7	< 0.7	< 1	< 0.7	< 0.7 C	< 0.7 C	1	< 0.7	1	1

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS O-DUPLICATE SPIKE E-AVERAGE
F-SAMPLE LOST

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ71324 01/28/94	WELL EW3-SJ71325 01/28/94	WELL EW3-SJ71988 02/11/94	WELL EW3-SJ74078 03/25/94	WELL EW3-SJ74718 04/08/94	WELL EW3-SJ75942 05/06/94	WELL EW3-SJ77496 06/09/94	WELL EW3-SJ78790 07/08/94	WELL EW3-SJ80520 06/19/94	WELL EW3-SJ82271 09/28/94
ORGANIC MATTER											
SOLUBLE BOD	MG/L O				< 0.7 C			< 0.7			< 0.7
TOTAL COD	MG/L O	23	23	24	20	17	18	18	17	20	24
SOLUBLE COD	MG/L O				22 A			17 A			22
TOTAL ORGANIC CARBON	MG/L C				5.7			2.4			6.3
OIL & GREASE	MG/L EXTRAC				< 0.9			< 0.9			< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L				59			55			80
ACETIC ACID	MG/L				< 2.5			< 2.5			< 2.5
PROPIONIC ACID	MG/L				< 2.0			< 2.0			< 2.0
ISOBUTYRIC ACID	MG/L				< 2.0			< 2.0			< 2.0
BUTYRIC ACID	MG/L				< 2.0			< 2.0			< 2.0
ISOVALERIC ACID	MG/L				< 2.0			< 2.0			< 2.0
VALERIC ACID	MG/L				< 2.0			< 2.0			< 2.0
METALS											
ARSENIC	MG/L AS				0.001			0.001			0.002
BARIUM	MG/L BA				0.04 D			0.04			0.05
CADMIUM	MG/L CD				<0.005 D			<0.003			<0.003
TOTAL CHROMIUM	MG/L CR				< 0.02 D			< 0.01			< 0.01
HEXAVALENT CHROMIUM	MG/L CR				< 0.02 D						
COBALT	MG/L CO				< 0.04 D			< 0.01			< 0.01
COPPER	MG/L CU				< 0.02 D			< 0.01			< 0.01
LEAD	MG/L PB				< 0.04 D			< 0.02			< 0.02
MERCURY	MG/L HG				<.0001			<.0001			.0006
NICKEL	MG/L NI				< 0.03 D			0.03			< 0.02
SELENIUM	MG/L SE				<0.001			<0.001			0.001
SILVER	MG/L AG				<0.005 D			< 0.01			< 0.01
ZINC	MG/L ZN				0.06 D			< 0.01			0.02
ANTIMONY	MG/L SB				<0.001			<0.001			<0.001
BERYLLIUM	MG/L BE				<.0005 D			<.0005			<.0005
THALLIUM	MG/L TL				<0.002 D			<0.002			<0.002
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L				< 0.01			< 0.01			< 0.01
PP'-DDD	UG/L				< 0.01			< 0.01			< 0.01
PP'-DDT	UG/L				< 0.01			< 0.01			< 0.01
ALPHA-BHC	UG/L				< 0.01			< 0.01			< 0.01
LINDANE (GAMMA-BHC)	UG/L				< 0.01			< 0.01			< 0.01
HEPTACHLOR	UG/L				< 0.01			< 0.01			< 0.01
HEPTACHLOR EPOXIDE	UG/L				< 0.01			< 0.01			< 0.01
ALDRIN	UG/L				< 0.01			< 0.01			< 0.01
DIELDRIN	UG/L				< 0.01			< 0.01			< 0.01

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-AVERAGE
F-SAMPLE LOST

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ71324 01/28/94	WELL EW3-SJ71325 01/28/94	WELL EW3-SJ71968 02/11/94	WELL EW3-SJ74078 03/25/94	WELL EW3-SJ74718 04/08/94	WELL EW3-SJ75942 05/06/94	WELL EW3-SJ77496 06/09/94	WELL EW3-SJ78790 07/08/94	WELL EW3-SJ80520 08/19/94	WELL EW3-SJ82271 09/28/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ENDRIN	UG/L				< 0.01			< 0.01			< 0.01
TOXAPHENE	UG/L				< 0.5			< 0.5			< 0.5
METHOXYCLOR	UG/L				< 0.01			< 0.01			< 0.01
AROCLOR 1242	UG/L				< 0.1			< 0.1			< 0.1
AROCLOR 1254	UG/L				< 0.05			< 0.05			< 0.05
BETA-BHC	UG/L				< 0.01			< 0.01			< 0.01
DELTA-BHC	UG/L				< 0.01			< 0.01			< 0.01
ENDOSULFAN I	UG/L				< 0.01			< 0.01			< 0.01
ENDOSULFAN II	UG/L				< 0.01			< 0.01			< 0.01
ENDOSULFAN SULFATE	UG/L				< 0.1			< 0.1			< 0.1
ENDRIN ALDEHYDE	UG/L				< 0.01			< 0.01			< 0.01
AROCLOR 1016	UG/L				< 0.1			< 0.1			< 0.1
AROCLOR 1221	UG/L				< 0.1			< 0.1			< 0.1
AROCLOR 1232	UG/L				< 0.1			< 0.1			< 0.1
AROCLOR 1248	UG/L				< 0.1			< 0.1			< 0.1
AROCLOR 1260	UG/L				< 0.1			< 0.1			< 0.1
TECHNICAL CHLORDANE	UG/L				< 0.05			< 0.05			< 0.05
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L				< 1.0			< 1.0			< 1.0
CHLOROFORM	UG/L				< 0.5			< 0.5			< 0.5
1,1,1-TRICHLOROETHANE	UG/L				< 0.5			< 0.5			< 0.5
CARBON TETRACHLORIDE	UG/L				< 0.3			< 0.3			< 0.3
1,1-DICHLOROETHENE	UG/L				< 0.3			< 0.3			< 0.3
TRICHLOROETHYLENE	UG/L				1.2			0.9			0.7
TETRACHLOROETHYLENE	UG/L				< 0.3			< 0.3			< 0.3
BROMODICHLOROMETHANE	UG/L				< 0.5			< 0.5			< 0.5
DIBROMOCHLOROMETHANE	UG/L				< 0.5			< 0.5			< 0.5
BROMOFORM	UG/L				< 0.5			< 0.5			< 0.5
CHLOROBENZENE	UG/L				1.6			0.8			1.0
VINYL CHLORIDE	UG/L				< 0.5			< 0.5			< 0.5
O-DICHLOROBENZENE	UG/L				< 0.5			< 0.5			< 0.5
M-DICHLOROBENZENE	UG/L				< 0.5			< 0.5			< 0.5
P-DICHLOROBENZENE	UG/L				1.6			0.9			0.9
1,1-DICHLOROETHANE	UG/L				< 0.3			< 0.3			< 0.3
1,1,2-TRICHLOROETHANE	UG/L				< 0.3			< 0.3			< 0.3
1,2-DICHLOROETHANE	UG/L				< 0.3			0.3			0.4
BENZENE	UG/L				< 0.3			< 0.3			< 0.3
TOLUENE	UG/L				< 0.3			< 0.3			< 0.3
ETHYL BENZENE	UG/L				< 0.3			< 0.3			< 0.3
TRANS-1,2-DICHLOROETHYLEN	UG/L				< 0.3			< 0.3			< 0.3
BROMOMETHANE	UG/L				< 2.5			< 2.5			< 2.5

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-AVERAGE
F-SAMPLE LOST

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ71324 01/28/94	WELL EW3-SJ71325 01/28/94	WELL EW3-SJ71968 02/11/94	WELL EW3-SJ74078 03/25/94	WELL EW3-SJ74718 04/08/94	WELL EW3-SJ75942 05/06/94	WELL EW3-SJ77496 06/09/94	WELL EW3-SJ78790 07/08/94	WELL EW3-SJ80520 08/19/94	WELL EW3-SJ82271 09/28/94
VOLATILE ORGANIC COMPOUNDS											
CHLOROETHANE	UG/L				< 2.5			< 2.5			< 2.5
2-CHLORDETHYLVINYLETHER	UG/L				< 1.0			< 1.0			< 1.0
CHLOROMETHANE	UG/L				< 2.5			< 2.5			< 2.5
1,2-DICHLOROPROPANE	UG/L				< 0.5			< 0.5			< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L				< 0.5			< 0.5			< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L				< 0.5			< 0.5			< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L				< 0.5			< 0.5			< 0.5
ACROLEIN	UG/L				< 2.5			< 2.5			< 2.5
ACRYLONITRILE	UG/L				< 1.0			< 1.0			< 1.0
ACETONE	UG/L				< 5.0			< 5.0			< 5.0
2-BUTANONE	UG/L				< 1.0			< 1.0			< 1.0
ACID-BASE NEUTRAL EXTRACTABLE											
ACENAPHTHENE	UG/L				< 20			< 2			< 20
ACENAPHTHYLENE	UG/L				< 20			< 2			< 20
ANTHRACENE	UG/L				< 10			< 1			< 10
BENZIDINE	UG/L				< 620			< 62			< 620
BENZO(A)ANTHRACENE	UG/L				< 20			< 2			< 20
BENZO(A)PYRENE	UG/L				< 70			< 7			< 70
BENZO(B)FLUORANTHENE	UG/L				< 20			< 2			< 20
BENZO(G,H,I,)PERYLENE	UG/L				< 60			< 6			< 60
BENZO(K)FLUORANTHENE	UG/L				< 20			< 2			< 20
BIS(2-CL-ETHOXY)METHANE	UG/L				< 30			< 3			< 30
BIS(2-CHLOROETHYL)ETHER	UG/L				< 50			< 5			< 50
BIS(2-CL-ISOPROPYL)ETHER	UG/L				< 30			< 3			< 30
DIETHYLHEXYL PHTHALATE	UG/L				< 100			< 10			< 100
4-BROMOPHENYL PHENYLETHER	UG/L				< 90			< 9			< 90
BUTYLBENZYL PHTHALATE	UG/L				< 30			< 3			< 30
2-CHLORONAPHTHALENE	UG/L				< 10			< 1			< 10
4-CHLOROPHENYLPHENYLETHER	UG/L				< 20			< 2			< 20
CHRYSENE	UG/L				< 20			< 2			< 20
DIBENZO(A,H)ANTHRACENE	UG/L				< 60			< 6			< 60
1,2-DICHLOROBENZENE	UG/L				< 100			< 10			< 100
1,3-DICHLOROBENZENE	UG/L				< 100			< 10			< 100
1,4-DICHLOROBENZENE	UG/L				< 20			< 2			< 20
3,3'-DICHLOROBENZIDINE	UG/L				< 1000			< 100			< 1000
DIETHYL PHTHALATE	UG/L				< 20			< 2			< 20
DIMETHYL PHTHALATE	UG/L				< 30			< 3			< 30
DI-N-BUTYL PHTHALATE	UG/L				< 40			< 4			< 40
2,4-DINITROTOLUENE	UG/L				< 30			< 3			< 30
2,6-DINITROTOLUENE	UG/L				< 50			< 5			< 50
DI-N-OCTYL PHTHALATE	UG/L				< 50			< 5			< 50

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-AVERAGE
F-SAMPLE LOST

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ71324 01/28/94	WELL EW3-SJ71325 01/28/94	WELL EW3-SJ71968 02/11/94	WELL EW3-SJ74078 03/25/94	WELL EW3-SJ74718 04/08/94	WELL EW3-SJ75942 05/06/94	WELL EW3-SJ77496 06/09/94	WELL EW3-SJ78790 07/08/94	WELL EW3-SJ80520 08/19/94	WELL EW3-SJ82271 09/28/94
ACID-BASE NEUTRAL EXTRACTABLE											
1,2-DIPHENYLHYDRAZINE	UG/L				< 10		< 1				< 10
FLUORANTHENE	UG/L				< 20		< 2				< 20
FLUORENE	UG/L				< 20		< 2				< 20
HEXACHLOROBENZENE	UG/L				< 10		< 1				< 10
HEXACHLOROBUTADIENE	UG/L				< 100		< 10				< 100
HEXACHLOROCYCLOPENTADIENE	UG/L				< 1000		< 100				< 1000
HEXACHLOROETHANE	UG/L				< 120		< 12				< 120
INDENO(1,2,3-C,D)PYRENE	UG/L				< 60		< 6				< 60
ISOPHORONE	UG/L				< 30		< 3				< 30
NAPHTHALENE	UG/L				< 20		< 2				< 20
NITROBENZENE	UG/L				< 20		< 2				< 20
N-NITROSODIMETHYLAMINE	UG/L				< 300		< 30				< 300
N-NITROSODI-N-PROPYLAMINE	UG/L				< 20		< 2				< 20
PHENANTHRENE	UG/L				< 10		< 1				< 10
PYRENE	UG/L				< 20		< 2				< 20
2,3,7,8-TCDD	UG/L				< 30		< 3				< 30
2-CHLOROPHENOL	UG/L				< 80		< 8				< 80
1,2,4-TRICHLOROBENZENE	UG/L				< 30		< 3				< 30
2,4-DICHLOROPHENOL	UG/L				< 30		< 3				< 30
2,4-DIMETHYLPHENOL	UG/L				< 30		< 3				< 30
2,4-DINITROPHENOL	UG/L				< 390		< 39				< 390
2-METHYL-4,6DINITROPHENOL	UG/L				< 170		< 17				< 170
2-NITROPHENOL	UG/L				< 50		< 5				< 50
4-NITROPHENOL	UG/L				< 60		< 6				< 60
4-CHLORO-3-METHYLPHENOL	UG/L				< 20		< 2				< 20
PENTACHLOROPHENOL	UG/L				< 160		< 16				< 160
PHENOL	UG/L				< 30		< 3				< 30
2,4,6-TRICHLOROPHENOL	UG/L				< 20		< 2				< 20
N-NITROSODIPHENYLAMINE	UG/L				< 20		< 2				< 20

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-AVERAGE
F-SAMPLE LOST

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW3-SJ82722 10/07/94	WELL EW3-SJ85826 11/23/94
FIELD PARAMETERS			
FIELD WATER TEMPERATURE	DEG C	25	18
FIELD PH	PH	6.63	7.33
FIELD CONDUCTIVITY	UMHOS/CM	2800	2590
FIELD DISSOLVED O2	MG/L	4.4	2.0
FIELD DISSOLVED CO2	MG/L	186.6	35.1
FIELD TOTAL ALKALINITY	MG/L	772	796
FIELD HYDRDGEN SULFIDE	PPM	< 0.1	< 0.1
GENERAL			
PH	PH	7.58	7.10
TOTAL DISSOLVED SOLIDS	MG/L	2968	2761
ANIONS			
SULFATE	MG/L SO4	1180 E	1040 E
CHLORIDE	MG/L CL	324 E	306 E
ORGANIC MATTER			
TOTAL BOD	MG/L O	< 0.7 C	< 0.7 C
TOTAL COD	MG/L O	25	19

FOOTNOTES : A-DUP & SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-AVERAGE
F-SAMPLE LOST

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M31A SJ73835 03/22/94		WEFI M31A SJ78256 06/27/94		WEFI M31A SJ82153 09/27/94	
ANIONS							
SULFATE	MG/L SO4	962					
CHLORIDE	MG/L CL	188					
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	894	A	904		782	
MAGNESIUM-HARDNESS	MG/L CACO3	811	A	831		683	
SODIUM	MG/L NA	206	A	196		185	
POTASSIUM	MG/L K	5.3	A	5.7		4.7	
IRON	MG/L FE	< 0.02	A	< 0.02		< 0.02	
MANGANESE	MG/L MN	0.49	A	0.499		0.428	
METALS							
ARSENIC	MG/L AS	<0.001		<0.001		<0.001	
BARIUM	MG/L BA	0.05	A	0.05		0.05	
CADMIUM	MG/L CD	<0.005	A	<0.003		<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.02	A	< 0.01		< 0.01	
COBALT	MG/L CO	< 0.04	A	0.01		< 0.01	
COPPER	MG/L CU	< 0.02	A	< 0.01		< 0.01	
LEAD	MG/L PB	< 0.04	A	< 0.02		< 0.02	
MERCURY	MG/L HG	<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.03	A	< 0.02		< 0.02	
SELENIUM	MG/L SE	<0.001		0.001		0.001	
SILVER	MG/L AG	<0.005	A	< 0.01		< 0.01	
ZINC	MG/L ZN	0.04	A	0.04		0.04	
ANTIMONY	MG/L SB	0.002		<0.001		<0.001	
BERYLLIUM	MG/L BE	<.0005	A	<.0005		<.0005	
THALLIUM	MG/L TL	<0.002	A	<0.002		<0.002	

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ73839 03/22/94	WELL M31A SJ78257 06/27/94	WELL M31A SJ82154 09/27/94	WELL M31A SJ85891 12/01/94
FIELD PARAMETERS					
DEPTH TO WATER	FT	47.2	47.3	45.9	47.26
DEPTH TO BOTTOM	FT	71.9	71.9	71.9	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%02	20	20	19	19
FIELD WATER TEMPERATURE	DEG C	21	26	21.8	21.2
FIELD PH	PH	6.70	6.90	6.92	6.63
FIELD CONDUCTIVITY	UMHOS/CM	2690	2740	2420	3240
FIELD DISSOLVED O2	MG/L	1.4	1.2	1.50	0.18
FIELD DISSOLVED CO2	MG/L	145.5	180.6	75.2	
FIELD TOTAL ALKALINITY	MG/L	796	788	732	
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	
GENERAL					
PH	PH	7.86 A	7.48 A	7.57	7.07
CONDUCTIVITY	UMHOS/CM	3120 A	3285 A	2760	
SUSPENDED SOLIDS	MG/L	< 1 A	< 1	2	
TOTAL DISSOLVED SOLIDS	MG/L	2395	2784 E	2164	2457
TOTAL HARDNESS	MG/L CACO3	1620 B	1782 B	1428 B	
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	
PHENOLS	MG/L C6H5OH	0.001	0.003	0.002	
BORON	MG/L B	0.84	0.92	0.68	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02	0.08	< 0.02 G	< 0.02
SULFATE	MG/L SO4	970	1040	730 G	958 G
CHLORIDE	MG/L CL	187	177	203 G	192 G
TOTAL ALKALINITY	MG/L CACO3	758	770	720	
BICARBONATE ALKALINITY	MG/L CACO3	758	770	720	
TOTAL PHOSPHATE	MG/L PO4	0.59	0.28 E	0.22	
TOTAL SULFIDE	MG/L S	< 0.1 A	< 0.1 A	< 0.1	
FLUORIDE	MG/L F	0.80	0.78	0.85	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	859	934	759	
MAGNESIUM-HARDNESS	MG/L CACO3	766	848	679	
SODIUM	MG/L NA	199	201	186	
POTASSIUM	MG/L K	5.4	5.7	4.7	
IRON	MG/L FE	0.07	< 0.02	0.09	
MANGANESE	MG/L MN	0.46	0.509	0.444	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
F-VALUE <MDL, <IDL G-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ73839 03/22/94	WELL M31A SJ78257 06/27/94	WELL M31A SJ82154 09/27/94	WELL M31A SJ85891 12/01/94
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	
TOTAL BOD	MG/L O	< 0.7	< 0.7	< 0.7	
SOLUBLE BOD	MG/L O	< 0.7 A	1 A	< 0.7 A	
TOTAL COD	MG/L O	7	10	16	
SOLUBLE COD	MG/L O	8	9 E	16 E	
TOTAL ORGANIC CARBON	MG/L C	4.1	3.2	4.2	
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9	< 0.9	
TOTAL ORGANIC HALOGEN(TOX	UG/L	78 C	41	49	
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5	
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
METALS					
ARSENIC	MG/L AS	<0.001	<0.001	<0.001	
BARIUM	MG/L BA	0.05	0.05	0.05	
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02 D			
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	
MERCURY	MG/L HG	.0001	<.0001	<.0001	
NICKEL	MG/L NI	< 0.03	0.02	< 0.02	
SELENIUM	MG/L SE	<0.001	0.001	0.001	
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	
ZINC	MG/L ZN	0.04	0.04	0.03	
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001	
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
F-VALUE <MDL, <PQL G-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ73839 03/22/94	WELL M31A SJ78257 06/27/94	WELL M31A SJ82154 09/27/94	WELL M31A SJ85891 12/01/94						
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01							
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01							
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01							
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5							
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01							
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05							
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01							
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1							
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01							
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1							
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05							
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L				< 0.5						
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01						
1-1,4-DICHLORO-2-BUTENE	UG/L				< 2						
METHYL IODIDE	UG/L				< 0.5						
METHYLENE BROMIDE	UG/L				< 0.5						
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5						
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5						
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3						
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5						
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	0.3	< 0.5						
TRICHLOROETHYLENE	UG/L	1.8	2.3	0.5	1.3						
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5						
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
VINYL CHLORIDE	UG/L	< 0.5	0.9	0.9	0.7						
O-DICHLOROBENZENE	UG/L	< 0.5	0.5	0.5	< 0.5						
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	0.5							

FOOTNOTE : A-AVERAGE OF DUPS. B-CALCULATED VALUE C-CHECK NOTE TO USER D-DUPLICATE SPIKE E-DUP. & SPIKE
F-VALUE BELOW MDL, ABOVE IDL G-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ73839 03/22/94	WELL M31A SJ78257 06/27/94	WELL M31A SJ82154 09/27/94	WELL M31A SJ85891 12/01/94
VOLATILE ORGANIC COMPOUNDS					
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L	0.4	< 0.3	0.6	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	0.7
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
VINYL ACETATE	UG/L				< 10
O-XYLENE	UG/L				< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5 D	
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0 D	< 50
FREON 11 (CCL3F)	UG/L				< 1
1,2-DIBROMOETHANE	UG/L				< 0.01
ACETONE	UG/L	< 5.0	< 5.0	< 5.0 D	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L				6.0
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0 D	< 10
4-METHYL-2-PENTANONE	UG/L				< 10
STYRENE	UG/L				< 0.5
M+P-XYLENE	UG/L				< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5
2-HEXANONE	UG/L C6H120				< 10
ACID-BASE NEUTRAL EXTRACTABLE					
ACENAPHTHENE	UG/L	< 20	< 2	< 20	
ACENAPHTHYLENE	UG/L	< 20	< 2	< 20	
ANTHRACENE	UG/L	< 10	< 1	< 10	
BENZIDINE	UG/L	< 620	< 62	< 620	
BENZO(A)ANTHRACENE	UG/L	< 20	< 2	< 20	
BENZO(A)PYRENE	UG/L	< 70	< 7	< 70	
BENZO(B)FLUORANTHENE	UG/L	< 20	< 2	< 20	
BENZO(G,H,I,)PERYLENE	UG/L	< 60	< 6	< 60	
BENZO(K)FLUORANTHENE	UG/L	< 20	< 2	< 20	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 30	< 3	< 30	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
F-VALUE >MDL, <10 S-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ73839 03/22/94	WELL M31A SJ78257 06/27/94	WELL M31A SJ82154 09/27/94	WELL M31A SJ85891 12/01/94
ACID-BASE NEUTRAL EXTRACTABLE					
BIS(2-CHLOROETHYL)ETHER	UG/L	< 50	< 5	< 50	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 30	< 3	< 30	
DIETHYLHEXYL PHTHALATE	UG/L	< 100	< 0.6 F	< 100	
4-BROMOPHENYL PHENYLETHER	UG/L	< 90	< 9	< 90	
BUTYLBENZYL PHTHALATE	UG/L	< 30	< 3	< 30	
2-CHLORONAPHTHALENE	UG/L	< 10	< 1	< 10	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 20	< 2	< 20	
CHRYSENE	UG/L	< 20	< 2	< 20	
DIBENZO(A,H)ANTHRACENE	UG/L	< 60	< 6	< 60	
1,2-DICHLOROBENZENE	UG/L	< 100	< 10	< 100	
1,3-DICHLOROBENZENE	UG/L	< 100	< 10	< 100	
1,4-DICHLOROBENZENE	UG/L	< 20	< 2	< 20	
3,3'-DICHLOROBENZIDINE	UG/L	< 1000	< 100	< 1000	
DIETHYL PHTHALATE	UG/L	< 20	< 2	< 20	
DIMETHYL PHTHALATE	UG/L	< 30	< 3	< 30	
DI-N-BUTYL PHTHALATE	UG/L	< 40	< 4	< 40	
2,4-DINITROTOLUENE	UG/L	< 30	< 3	< 30	
2,6-DINITROTOLUENE	UG/L	< 50	< 5	< 50	
DI-N-OCTYL PHTHALATE	UG/L	< 50	< 5	< 50	
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	< 1	< 10	
FLUORANTHENE	UG/L	< 20	< 2	< 20	
FLUORENE	UG/L	< 20	< 2	< 20	
HEXACHLOROBENZENE	UG/L	< 10	< 1	< 10	
HEXACHLOROBUTADIENE	UG/L	< 100	< 10	< 100	
HEXACHLOROCYCLOPENTADIENE	UG/L	< 1000	< 100	< 1000	
HEXACHLOROETHANE	UG/L	< 120	< 12	< 120	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 60	< 6	< 60	
ISOPHORONE	UG/L	< 30	< 3	< 30	
NAPHTHALENE	UG/L	< 20	< 2	< 20	
NITROBENZENE	UG/L	< 20	< 2	< 20	
N-NITROSODIMETHYLAMINE	UG/L	< 300	< 30	< 300	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 20	< 2	< 20	
PHENANTHRENE	UG/L	< 10	< 1	< 10	
PYRENE	UG/L	< 20	< 2	< 20	
2,3,7,8-TCDD	UG/L	< 30	< 3	< 30	
2-CHLOROPHENOL	UG/L	< 80	< 8	< 80	
1,2,4-TRICHLOROBENZENE	UG/L	< 30	< 3	< 30	
2,4-DICHLOROPHENOL	UG/L	< 30	< 3	< 30	
2,4-DIMETHYLPHENOL	UG/L	< 30	< 3	< 30	
2,4-DINITROPHENOL	UG/L	< 390	< 39	< 390	
2-METHYL-4,6DINITROPHENOL	UG/L	< 170	< 17	< 170	
2-NITROPHENOL	UG/L	< 50	< 5	< 50	
4-NITROPHENOL	UG/L	< 60	< 6	< 60	

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
F-VALUE >MDL, <IDL G AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ73839 03/22/94		WELL M31A SJ78257 06/27/94		WELL M31A SJ82154 09/27/94		WELL M31A SJ85891 12/01/94	
ACID-BASE NEUTRAL EXTRACTABLE									
4-CHLORO-3-METHYLPHENOL	UG/L	<	20	<	2	<	20		
PENTACHLOROPHENOL	UG/L	<	160	<	16	<	160		
PHENOL	UG/L	<	30	<	3	<	30		
2,4,6-TRICHLOROPHENOL	UG/L	<	20	<	2	<	20		
N-NITROSODIPHENYLAMINE	UG/L	<	20	<	2	<	20		

FOOTNOTES : A-AVERAGE OF DUPS B-CALCULATED VALUE C-CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
F-VALUE <MDL, >IDL G-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ86862 12/29/94		WEFI R32B SJ86860 12/29/94	
FIELD PARAMETERS					
DEPTH TO WATER	FT	41.07			
PERCENT METHANE IN GAS	%CH4	< 0.1			
PERCENT OXYGEN IN GAS	%O2	17			
FIELD WATER TEMPERATURE	DEG C	19.37			
FIELD PH	PH	7.06			
FIELD CONDUCTIVITY	UMHOS/CM	3700			
FIELD DISSOLVED O2	MG/L	0.44			
GENERAL					
PH	PH	7.46			
CONDUCTIVITY	UMHOS/CM	3750			
TOTAL DISSOLVED SOLIDS	MG/L	3115			
TOTAL HARDNESS	MG/L CACO3	1823	C		
TOTAL CYANIDE	MG/L CN	<0.002			
BORON	MG/L B	0.56			
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02			
SULFATE	MG/L SO4	1610	B		
CHLORIDE	MG/L CL	252	B		
TOTAL ALKALINITY	MG/L CACO3	322			
BICARBONATE ALKALINITY	MG/L CACO3	322			
TOTAL SULFIDE	MG/L S	< 0.1			
FLUORIDE	MG/L F	0.28			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	623	A		
MAGNESIUM-HARDNESS	MG/L CACO3	1200	A		
SODIUM	MG/L NA	322	A		
POTASSIUM	MG/L K	7.2	A		
IRON	MG/L FE	1.02	A	0.66	A
MANGANESE	MG/L MN	0.10	A	0.10	A
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	1.5			
TOTAL BOD	MG/L O	< 0.7			
SOLUBLE BOD	MG/L O	< 0.7			
TOTAL COD	MG/L O	9			
SOLUBLE COD	MG/L O	8			

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ86862 12/29/94		WEFI R32B SJ86860 12/29/94	
ORGANIC MATTER					
TOTAL ORGANIC CARBON	MG/L C	2.1			
OIL & GREASE	MG/L EXTRAC	< 0.9			
TOTAL ORGANIC HALOGEN(TOX	UG/L	28	B		
METALS					
ARSENIC	MG/L AS	0.001		0.001	
BARIUM	MG/L BA	0.02		0.02	
CADMIUM	MG/L CD	<0.003	A	<0.003	A
TOTAL CHROMIUM	MG/L CR	< 0.01	A	< 0.01	A
COBALT	MG/L CO	< 0.01	A	< 0.01	A
COPPER	MG/L CU	< 0.01	A	< 0.01	A
LEAD	MG/L PB	< 0.02		< 0.02	
MERCURY	MG/L HG	<.0001		<.0001	
NICKEL	MG/L NI	< 0.02	A	< 0.02	A
SELENIUM	MG/L SE	<0.001		<0.001	
SILVER	MG/L AG	< 0.01	A	< 0.01	A
ZINC	MG/L ZN	0.02	A	0.02	
ANTIMONY	MG/L SB	<0.001		0.001	
BERYLLIUM	MG/L BE	<.0005	D	<.0005	A
THALLIUM	MG/L TL	<0.002	D	<0.002	
TIN	MG/L SN	< 0.06	A	< 0.06	A
VANADIUM	MG/L V	< 0.05	A	< 0.05	A
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L	< 0.5			
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01			
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2			
METHYL IODIDE	UG/L	< 0.5			
METHYLENE BROMIDE	UG/L	< 0.5			
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5			
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5			
METHYLENE CHLORIDE	UG/L	< 3			
CHLOROFORM	UG/L	< 0.5			
1,1,1-TRICHLOROETHANE	UG/L	< 0.5			
CARBON TETRACHLORIDE	UG/L	< 0.5			
1,1-DICHLOROETHENE	UG/L	< 0.5			
TRICHLOROETHYLENE	UG/L	< 0.5			
TETRACHLOROETHYLENE	UG/L	< 0.5			
BROMODICHLOROMETHANE	UG/L	< 0.5			
DIBROMOCHLOROMETHANE	UG/L	< 0.5			
BROMOFORM	UG/L	< 0.5			

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE [illegible] D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL R32B SJ86862 12/29/94	WEFI R32B SJ86860 12/29/94
VOLATILE ORGANIC COMPOUNDS				
CHLOROBENZENE	UG/L		< 0.5	
VINYL CHLORIDE	UG/L		< 0.5	
O-DICHLOROBENZENE	UG/L		< 0.5	
P-DICHLOROBENZENE	UG/L		< 0.5	
1,1-DICHLOROETHANE	UG/L		< 0.5	
1,1,2-TRICHLOROETHANE	UG/L		< 0.5	
1,2-DICHLOROETHANE	UG/L		< 0.5	
BENZENE	UG/L		< 0.5	
TOLUENE	UG/L		< 0.5	
ETHYL BENZENE	UG/L		< 0.5	
VINYL ACETATE	UG/L		< 10	
O-XYLENE	UG/L		< 0.5	
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 0.5	
BROMOMETHANE	UG/L		< 1	
CHLOROETHANE	UG/L		< 1	
CHLOROMETHANE	UG/L		< 1	
1,2-DICHLOROPROPANE	UG/L		< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L		< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L		< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	
ACRYLONITRILE	UG/L		< 50	
FREON 11 (CCL3F)	UG/L		< 1	
1,2-DIBROMOETHANE	UG/L		< 0.01	
ACETONE	UG/L		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5	
2-BUTANONE	UG/L		< 10	
4-METHYL-2-PENTANONE	UG/L		< 10	
STYRENE	UG/L		< 0.5	
M+P-XYLENE	UG/L		< 0.5	
CARBON DISULFIDE	UG/L	CS2	< 0.5	
2-HEXANONE	UG/L	C6H12O	< 10	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M33A SJ73781 03/11/94	WEFI M33A SJ78315 06/28/94	WEFI M33A SJ82268 09/28/94
ANIONS				
SULFATE	MG/L SO4	A		
CHLORIDE	MG/L CL	A		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	627	649	672
MAGNESIUM-HARDNESS	MG/L CACO3	584	597	622
SODIUM	MG/L NA	194	188	192
POTASSIUM	MG/L K	4.2	4.5	4.6
IRON	MG/L FE	< 0.02	< 0.02	0.07
MANGANESE	MG/L MN	0.22	0.283	0.356
METALS				
ARSENIC	MG/L AS	<0.001	0.001	0.001
BARIUM	MG/L BA	0.04	0.05	0.05
CADMIUM	MG/L CD	<0.005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02	0.03
SELENIUM	MG/L SE	0.001	0.001	0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.02	0.03	< 0.01
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ73340 03/11/94	WELL M33A SJ78316 06/28/94	WELL M33A SJ82272 09/28/94	WELL M33A SJ85892 12/01/94	WELL M33A SJ85893 12/01/94
FIELD PARAMETERS						
DEPTH TO WATER	FT	48.6	48.8	54.55	49.2	
DEPTH TO BOTTOM	FT	77.0	80.7	77.00		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1		
PERCENT OXYGEN IN GAS	%02	21	19	17		
FIELD WATER TEMPERATURE	DEG C	21	23	23	21.27	
FIELD PH	PH	7.16	6.95	6.99	8.86	
FIELD CONDUCTIVITY	UMHOS/CM	2350	2510	2520	2530	
FIELD DISSOLVED 02	MG/L	1.25	0.6	1.6	2.28	
FIELD DISSOLVED CO2	MG/L	75.7	106.1	88.7		
FIELD TOTAL ALKALINITY	MG/L	622	618	626		
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1		
GENERAL						
PH	PH	7.85	7.50 C	8.27	7.18	7.12 C
CONDUCTIVITY	UMHOS/CM	2590	2605 C	3470		
SUSPENDED SOLIDS	MG/L	2	< 1	1		
TOTAL DISSOLVED SOLIDS	MG/L	1910	2133	1938	1843	1846
TOTAL HARDNESS	MG/L CACO3	1190 B	1226 B	1270 B		
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01		
PHENOLS	MG/L C6H5OH	0.003	0.003	0.001		
BORON	MG/L B	0.73	1.08	0.58		
ANIONS						
NITRATE NITROGEN	MG/L N	0.46	0.39	0.27 A	0.35 A	0.33 A
SULFATE	MG/L SO4	700	649	668 A	633 A	631 A
CHLORIDE	MG/L CL	171 A	184	190 A	186 A	188 A
TOTAL ALKALINITY	MG/L CACO3	640	637 F	654 F		
BICARBONATE ALKALINITY	MG/L CACO3	640	637	654		
TOTAL PHOSPHATE	MG/L PO4	0.58	0.68	0.36		
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1 C	< 0.1		
FLUORIDE	MG/L F	0.95	0.98	1.00		
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3	612	637	652		
MAGNESIUM-HARDNESS	MG/L CACO3	580	589	617		
SODIUM	MG/L NA	191	185	191		
POTASSIUM	MG/L K	4.4	4.5	4.3		
IRON	MG/L FE	0.06	0.04	0.11		
MANGANESE	MG/L MN	0.23	0.283	0.340		
SOLUBLE IRON	MG/L FE	< 0.02				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, <IDL
F-DUP & SPIKE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ73340 03/11/94	WELL M33A SJ78316 06/28/94	WELL M33A SJ82272 09/28/94	WELL M33A SJ85892 12/01/94	WELL M33A SJ85893 12/01/94
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1		
TOTAL BOD	MG/L O	1	< 0.7	< 0.7		
SOLUBLE BOD	MG/L O	< 0.7 C	< 0.7	< 0.7 C		
TOTAL COD	MG/L O	11	12	15 F		
SOLUBLE COD	MG/L O	10	12 F	15		
TOTAL ORGANIC CARBON	MG/L C	5.0	3.9	4.2		
OIL & GREASE	MG/L EXTRAC	< 5.0	< 0.9 D	< 0.9		
TOTAL ORGANIC HALOGEN(TOX	UG/L	45	37 D	61 G		
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5 D		
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0 D		
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0 D		
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0 D		
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0 D		
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0 D		
METALS						
ARSENIC	MG/L AS	<0.001	0.001	0.001		
BARIUM	MG/L BA	0.04	0.04	0.05		
CADMIUM	MG/L CD	<0.005	<0.003	<0.003		
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01		
HEXAVALENT CHROMIUM	MG/L CR	< 0.02 D				
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01		
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01		
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02		
MERCURY	MG/L HG	<.0001	<.0001 D	<.0001		
NICKEL	MG/L NI	< 0.03	< 0.02	0.03		
SELENIUM	MG/L SE	0.001	0.001	0.001		
SILVER	MG/L AG	<0.005	< 0.01	< 0.01		
ZINC	MG/L ZN	< 0.02	< 0.01	< 0.01		
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001		
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005		
THALLIUM	MG/L TL	<0.002	<0.002	<0.002		
SOLUBLE CALCIUM-HARDNESS	MG/L CACO3	627				
SOLUBLE MAGNESIUM-HARDNES	MG/L CACO3	584				
SOLUBLE ARSENIC	MG/L AS	<0.001				
SOLUBLE BARIUM	MG/L BA	0.04				
SOLUBLE ANTIMONY	MG/L SB	<0.001				
SOLUBLE CADMIUM	MG/L CD	<0.005				
SOLUBLE CHROMIUM	MG/L CR	< 0.02				
SOLUBLE COBALT	MG/L CO	< 0.04				
SOLUBLE COPPER	MG/L CU	< 0.02				
SOLUBLE LEAD	MG/L PB	< 0.04				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE D-AVERAGE OF DUPS I-DUPLICATE SPIKE F-VALUE FROM FIELD
F DUP & SPIKE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ73340 03/11/94	WELL M33A SJ78316 06/28/94	WELL M33A SJ82272 09/28/94	WELL M33A SJ85892 12/01/94	WELL M33A SJ85893 12/01/94
METALS						
SOLUBLE MANGANESE	MG/L MN	0.22				
SOLUBLE MERCURY	MG/L HG	<.0001				
SOLUBLE NICKEL	MG/L NI	< 0.03				
SOLUBLE POTASSIUM	MG/L K	4.2				
SOLUBLE SELENIUM	MG/L SE	0.001				
SOLUBLE BERYLLIUM	MG/L BE	<.0005				
SOLUBLE SILVER	MG/L AG	<0.005				
SOLUBLE SODIUM	MG/L NA	194				
SOLUBLE ZINC	MG/L ZN	< 0.02				
SOLUBLE THALLIUM	MG/L TL	<0.002				
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01		
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01		
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01		
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01		
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01		
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01		
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01		
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01		
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01		
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5		
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01		
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05		
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1		
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01		
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1		
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05		
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L				< 0.5	< 0.5

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-ABOVE MDL, ID.
F-DUP & SPIKE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ73340 03/11/94	WELL M33A SJ78316 06/28/94	WELL M33A SJ82272 09/28/94	WELL M33A SJ85892 12/01/94	WELL M33A SJ85893 12/01/94
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2	< 2
METHYL IODIDE	UG/L				< 0.5	< 0.5
METHYLENE BROMIDE	UG/L				< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	0.7	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5		
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	0.5	0.6	0.6	0.6	0.6
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	2.6	2.6
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
VINYL ACETATE	UG/L				< 10	< 10
O-XYLENE	UG/L				< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0		
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5		
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 50	< 50
FREON 11 (CCL3F)	UG/L				< 1	< 1
1,2-DIBROMOETHANE	UG/L				< 0.01	< 0.01
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 10	< 10

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-AVERAGE OF DUPS. D-DUPLICATE SPIKE E-VALUE NOT USED
F-DUP & SPIKE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ73340 03/11/94	WELL M33A SJ78316 06/28/94	WELL M33A SJ82272 09/28/94	WELL M33A SJ85892 12/01/94	WELL M33A SJ85893 12/01/94
VOLATILE ORGANIC COMPOUNDS						
CIS-1,2-DICHLOROETHYLENE	UG/L				0.6	0.7
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	14	15
4-METHYL-2-PENTANONE	UG/L				< 10	< 10
STYRENE	UG/L				< 0.5	< 0.5
M+P-XYLENE	UG/L				< 0.5	< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5	< 0.5
2-HEXANONE	UG/L C6H12O				< 10	< 10
ACID-BASE NEUTRAL EXTRACTABLE						
ACENAPHTHENE	UG/L	< 2	< 2	< 20		
ACENAPHTHYLENE	UG/L	< 2	< 2	< 20		
ANTHRACENE	UG/L	< 1	< 1	< 10		
BENZIDINE	UG/L	< 62	< 62	< 620		
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 20		
BENZO(A)PYRENE	UG/L	< 7	< 7	< 70		
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 20		
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 60		
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 20		
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 30		
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 50		
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 30		
DIETHYLHEXYL PHTHALATE	UG/L	8 E	< 10	< 100		
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 90		
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 30		
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 10		
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 20		
CHRYSENE	UG/L	< 2	< 2	< 20		
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 60		
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 100		
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 100		
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 20		
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 1000		
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 20		
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 30		
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 40		
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 30		
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 50		
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 50		
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 10		
FLUORANTHENE	UG/L	< 2	< 2	< 20		
FLUORENE	UG/L	< 2	< 2	< 20		
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 10		

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE D-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE ABOVE MDL
F-DUP & SPIKE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ73340 03/11/94	WELL M33A SJ78316 06/28/94	WELL M33A SJ82272 09/28/94	WELL M33A SJ85892 12/01/94	WELL M33A SJ85893 12/01/94
ACID-BASE NEUTRAL EXTRACTABLE						
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 100		
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 1000		
HEXACHLOROETHANE	UG/L	< 12	< 12	< 120		
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 60		
ISOPHORONE	UG/L	< 3	< 3	< 30		
NAPHTHALENE	UG/L	< 2	< 2	< 20		
NITROBENZENE	UG/L	< 2	< 2	< 20		
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 300		
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 20		
PHENANTHRENE	UG/L	< 1	< 1	< 10		
PYRENE	UG/L	< 2	< 2	< 20		
2,3,7,8-TCDD	UG/L	< 3	< 3	< 30		
2-CHLOROPHENOL	UG/L	< 8	< 8	< 80		
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 30		
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 30		
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 30		
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 390		
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 170		
2-NITROPHENOL	UG/L	< 5	< 5	< 50		
4-NITROPHENOL	UG/L	< 6	< 6	< 60		
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 20		
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 160		
PHENOL	UG/L	< 3	< 30	< 30		
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 20		
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 20		

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-VALUE <MDL, >IDL
F-DUP & SPIKE G-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ86863 12/29/94		WEFI R34B SJ86861 12/29/94	
FIELD PARAMETERS					
DEPTH TO WATER	FT	52.42			
PERCENT METHANE IN GAS	%CH4	< 0.1			
PERCENT OXYGEN IN GAS	%O2	18			
FIELD WATER TEMPERATURE	DEG C	20.82			
FIELD PH	PH	7.16			
FIELD CONDUCTIVITY	UMHOS/CM	3454			
FIELD DISSOLVED O2	MG/L	1.3			
GENERAL					
PH	PH	7.58			
CONDUCTIVITY	UMHOS/CM	3470			
TOTAL DISSOLVED SOLIDS	MG/L	2829			
TOTAL HARDNESS	MG/L CACO3	1492	E		
TOTAL CYANIDE	MG/L CN	<0.002	B		
BORON	MG/L B	0.54			
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02			
SULFATE	MG/L SO4	1480	C		
CHLORIDE	MG/L CL	273	C		
TOTAL ALKALINITY	MG/L CACO3	182	D		
BICARBONATE ALKALINITY	MG/L CACO3	182			
TOTAL SULFIDE	MG/L S	< 0.1			
FLUORIDE	MG/L F	0.91			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	559	B		
MAGNESIUM-HARDNESS	MG/L CACO3	934	B		
SODIUM	MG/L NA	316	B		
POTASSIUM	MG/L K	7.8	B		
IRON	MG/L FE	0.81	B	0.05	
MANGANESE	MG/L MN	0.10	B	0.09	A
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	1.8			
TOTAL BOD	MG/L O	< 0.7			
SOLUBLE BOD	MG/L O	< 0.7	A		
TOTAL COD	MG/L O	9			
SOLUBLE COD	MG/L O	9	D		

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-AVERAGE D-DUP & SPIKE E-CALCULATED VALUE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ86863 12/29/94		WEFI R34B SJ86861 12/29/94	
ORGANIC MATTER					
TOTAL ORGANIC CARBON	MG/L C	1.5			
OIL & GREASE	MG/L EXTRAC	0.9			
TOTAL ORGANIC HALOGEN(TOX	UG/L	29	F		
METALS					
ARSENIC	MG/L AS	0.001		0.001	
BARIUM	MG/L BA	0.02	B	0.02	
CADMIUM	MG/L CD	<0.003	B	<0.003	A
TOTAL CHROMIUM	MG/L CR	< 0.01	B	< 0.01	A
COBALT	MG/L CO	< 0.01	B	< 0.01	A
COPPER	MG/L CU	< 0.01	B	< 0.01	A
LEAD	MG/L PB	< 0.02	B	< 0.02	
MERCURY	MG/L HG	<.0001		<.0001	B
NICKEL	MG/L NI	< 0.02	B	< 0.02	A
SELENIUM	MG/L SE	<0.001		<0.001	
SILVER	MG/L AG	< 0.01	B	< 0.01	A
ZINC	MG/L ZN	0.02	B	0.01	A
ANTIMONY	MG/L SB	0.001		<0.001	
BERYLLIUM	MG/L BE	<.0005	A	<.0005	A
THALLIUM	MG/L TL	<0.002		<0.002	
TIN	MG/L SN	< 0.06	B	< 0.06	A
VANADIUM	MG/L V	< 0.05	B	< 0.05	A
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L	< 0.5			
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01			
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2			
METHYL IODIDE	UG/L	< 0.5			
METHYLENE BROMIDE	UG/L	< 0.5			
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5			
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5			
METHYLENE CHLORIDE	UG/L	< 3			
CHLOROFORM	UG/L	< 0.5			
1,1,1-TRICHLOROETHANE	UG/L	< 0.5			
CARBON TETRACHLORIDE	UG/L	< 0.5			
1,1-DICHLOROETHENE	UG/L	< 0.5			
TRICHLOROETHYLENE	UG/L	< 0.5			
TETRACHLOROETHYLENE	UG/L	< 0.5			
BROMODICHLOROMETHANE	UG/L	< 0.5			
DIBROMOCHLOROMETHANE	UG/L	< 0.5			
BROMOFORM	UG/L	< 0.5			

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-AVERAGE D-DUP & SPIKE E-CALCULATED VALUE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ86863 12/29/94	WEFI R34B SJ86861 12/29/94
VOLATILE ORGANIC COMPOUNDS			
CHLOROBENZENE	UG/L	< 0.5	
VINYL CHLORIDE	UG/L	< 0.5	
O-DICHLOROBENZENE	UG/L	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	
1,1-DICHLOROETHANE	UG/L	< 0.5	
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	
1,2-DICHLOROETHANE	UG/L	< 0.5	
BENZENE	UG/L	< 0.5	
TOLUENE	UG/L	< 0.5	
ETHYL BENZENE	UG/L	< 0.5	
VINYL ACETATE	UG/L	< 10	
O-XYLENE	UG/L	< 0.5	
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	
BROMOMETHANE	UG/L	< 1	
CHLOROETHANE	UG/L	< 1	
CHLOROMETHANE	UG/L	< 1	
1,2-DICHLOROPROPANE	UG/L	< 0.5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	
ACRYLONITRILE	UG/L	< 50	
FREON 11 (CCL3F)	UG/L	< 1	
1,2-DIBROMOETHANE	UG/L	< 0.01	
ACETONE	UG/L	< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	
2-BUTANONE	UG/L	< 10	
4-METHYL-2-PENTANONE	UG/L	< 10	
STYRENE	UG/L	< 0.5	
M+P-XYLENE	UG/L	< 0.5	
CARBON DISULFIDE	UG/L CS2	< 0.5	
2-HEXANONE	UG/L C6H12O	< 10	

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-AVERAGE D-DUP & SPIKE E-CALCULATED VALUE
F-CHECK NOTES TO USER

APPENDIX A.4

WATER QUALITY MONITORING DATA -BACKGROUND MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M17A SJ73800 03/21/94	WEFI M17A SJ78043 06/22/94	WEFI M17A SJ82064 09/23/94
ANIONS				
SULFATE	MG/L SO4	1060		
CHLORIDE	MG/L CL	91.3		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	547	537	542
MAGNESIUM-HARDNESS	MG/L CACO3	720	712	706
SODIUM	MG/L NA	218	219	251
POTASSIUM	MG/L K	9.6	9.0	9.7 A
IRON	MG/L FE	< 0.02	0.16	< 0.02
MANGANESE	MG/L MN	0.04	0.008	0.025
METALS				
ARSENIC	MG/L AS	0.001	0.001	0.001
BARIUM	MG/L BA	0.07	0.02	0.05
CADMIUM	MG/L CD	<0.005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02
SELENIUM	MG/L SE	0.001	0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01	< 0.01
ANTIMONY	MG/L SB	0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ73728 03/21/94	WELL M17A SJ78046 06/22/94	WELL M17A SJ82067 09/23/94	WELL M17A SJ86002 12/05/94	WELL M17A SJ86003 12/05/94
FIELD PARAMETERS						
DEPTH TO WATER	FT	33.0	35.0	37.2	33.62	
DEPTH TO BOTTOM	FT	49.1	49.1	49.1		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	21	16	14	17	
FIELD WATER TEMPERATURE	DEG C	19.1	21	20.3	17.46	
FIELD PH	PH	7.12	7.08	6.98	7.09	
FIELD CONDUCTIVITY	UMHOS/CM	2610	2610	2170	2778	
FIELD DISSOLVED O2	MG/L	5.5	3.75	5.10	5.44	
FIELD DISSOLVED CO2	MG/L	127.1	52.8	70.2		
FIELD TOTAL ALKALINITY	MG/L	480	504	572		
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1		
GENERAL						
PH	PH	8.08	7.45	7.73	7.98 D	8.00
CONDUCTIVITY	UMHOS/CM	2700	2700	2690		
SUSPENDED SOLIDS	MG/L	17	51 D	109		
TOTAL DISSOLVED SOLIDS	MG/L	2166	2263	2134	2127 E	2140
TOTAL HARDNESS	MG/L CACO3	1270 B	1144 B	1240 B		
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01		
PHENOLS	MG/L C6H5OH	0.002	<0.001	0.001		
BORON	MG/L B	0.57	0.56	0.56		
ANIONS						
NITRATE NITROGEN	MG/L N	0.36	0.29 C	0.86 A	0.85 A	0.85 A
SULFATE	MG/L SO4	1080 A	1030 C	951	1030 A	1030
CHLORIDE	MG/L CL	94.1 A	93.1 C	96.4 A	99 A	100 A
TOTAL ALKALINITY	MG/L CACO3	471	494	579		
BICARBONATE ALKALINITY	MG/L CACO3	471	494	579		
TOTAL PHOSPHATE	MG/L PO4	0.88	1.05 E	0.93 E		
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1		
FLUORIDE	MG/L F	1.10	1.17	1.10		
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3	534	494	539		
MAGNESIUM-HARDNESS	MG/L CACO3	706	650	700		
SODIUM	MG/L NA	218	199	250		
POTASSIUM	MG/L K	9.9	9.6	10.0		
IRON	MG/L FE	< 0.02	4.03	1.16		
MANGANESE	MG/L MN	0.04	0.063	0.039		
SOLUBLE IRON	MG/L FE	< 0.02				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE
F-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ73728 03/21/94	WELL M17A SJ78046 06/22/94	WELL M17A SJ82067 09/23/94	WELL M17A SJB6002 12/05/94	WELL M17A SJB6003 12/05/94
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1		
TOTAL BOD	MG/L O	< 0.7	< 0.7	< 0.7		
SOLUBLE BOD	MG/L O	< 0.7	< 0.7	< 0.7		
TOTAL COD	MG/L O	7	6	8		
SOLUBLE COD	MG/L O	6	5	8		
TOTAL ORGANIC CARBON	MG/L C	1.9	1.7	2.2		
OIL & GREASE	MG/L EXTRAC	< 0.9 C	< 0.9	< 0.9		
TOTAL ORGANIC HALOGEN(TOX	UG/L	11	10	14 F		
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5		
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0		
METALS						
ARSENIC	MG/L AS	0.001	0.002	0.002		
BARIUM	MG/L BA	0.08	0.06	0.05		
CADMIUM	MG/L CD	<0.005	<0.003	<0.003		
TOTAL CHROMIUM	MG/L CR	< 0.02	0.01	< 0.01		
HEXAVALENT CHROMIUM	MG/L CR	< 0.02				
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01		
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01		
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02		
MERCURY	MG/L HG	<.0001 C	<.0001	<.0001		
NICKEL	MG/L NI	< 0.03	0.03	< 0.02		
SELENIUM	MG/L SE	0.001	0.001	<0.001		
SILVER	MG/L AG	<0.005	< 0.01	< 0.01		
ZINC	MG/L ZN	< 0.02	< 0.01	< 0.01		
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001		
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005		
THALLIUM	MG/L TL	<0.002	<0.002	<0.002		
SOLUBLE CALCIUM-HARDNESS	MG/L CACO3	547				
SOLUBLE MAGNESIUM-HARDNES	MG/L CACO3	720				
SOLUBLE ARSENIC	MG/L AS	0.001				
SOLUBLE BARIUM	MG/L BA	0.07				
SOLUBLE ANTIMONY	MG/L SB	0.001				
SOLUBLE CADMIUM	MG/L CO	<0.002				
SOLUBLE CHROMIUM	MG/L CR	< 0.02				
SOLUBLE COBALT	MG/L CO	< 0.04				
SOLUBLE COPPER	MG/L CU	< 0.02				
SOLUBLE LEAD	MG/L PB	< 0.04				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE
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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ73728 03/21/94	WELL M17A SJ78046 06/22/94	WELL M17A SJ82067 09/23/94	WELL M17A SJ86002 12/05/94	WELL M17A SJ86003 12/05/94
METALS						
SOLUBLE MANGANESE	MG/L MN	0.04				
SOLUBLE MERCURY	MG/L HG	<.0001				
SOLUBLE NICKEL	MG/L NI	< 0.03				
SOLUBLE POTASSIUM	MG/L K	9.6				
SOLUBLE SELENIUM	MG/L SE	0.001				
SOLUBLE BERYLLIUM	MG/L BE	<.0005				
SOLUBLE SILVER	MG/L AG	<0.005				
SOLUBLE SODIUM	MG/L NA	218				
SOLUBLE ZINC	MG/L ZN	< 0.02				
SOLUBLE THALLIUM	MG/L TL	<0.002				
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01		
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01		
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01		
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01		
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01		
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01		
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01		
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01		
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01		
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5		
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01		
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05		
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01		
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1		
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01		
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1		
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1		
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05		
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L				< 0.5	< 0.5

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE
F-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ73728 03/21/94	WELL M17A SJ78046 06/22/94	WELL M17A SJ82067 09/23/94	WELL M17A SJ86002 12/05/94	WELL M17A SJ86003 12/05/94
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2	< 2
METHYL IODIDE	UG/L				< 0.5	< 0.5
METHYLENE BROMIDE	UG/L				< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3 C	< 0.3 C	< 0.3	< 0.5	< 0.5
TRICHLORDETHYLENE	UG/L	< 0.3 C	< 0.3 C	< 0.3	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5 C	< 0.5 C	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5		
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< D.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BENZENE	UG/L	< 0.3 C	< 0.3 C	< 0.3	< 0.5	< 0.5
TOLUENE	UG/L	< 0.3 C	< 0.3 C	< 0.3	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
VINYL ACETATE	UG/L				< 10	< 10
O-XYLENE	UG/L				< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0		
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5		
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 50	< 50
FREON 11 (CCL3F)	UG/L				< 1	< 1
1,2-DIBROMOETHANE	UG/L				< 0.01	< 0.01
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 10	< 10

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE
F-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ73728 03/21/94	WELL M17A SJ78046 06/22/94	WELL M17A SJ82067 09/23/94	WELL M17A SJ86002 12/05/94	WELL M17A SJ86003 12/05/94
VOLATILE ORGANIC COMPOUNDS						
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3			< 0.5	< 0.5
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 10	< 10
4-METHYL-2-PENTANONE	UG/L				< 10	< 10
STYRENE	UG/L				< 0.5	< 0.5
M+P-XYLENE	UG/L				< 0.5	< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5	< 0.5
2-HEXANONE	UG/L C6H12O				< 10	< 10
ACID-BASE NEUTRAL EXTRACTABLE						
ACENAPHTHENE	UG/L	< 2	< 2	< 2		
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2		
ANTHRACENE	UG/L	< 1	< 1	< 1		
BENZIDINE	UG/L	< 62	< 62	< 62		
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2		
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7		
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2		
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 6		
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2		
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3		
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5		
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3		
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	< 10		
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9		
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3		
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1		
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2		
CHRYSENE	UG/L	< 2	< 2	< 2		
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6		
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10		
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10		
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2		
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100		
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2		
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3		
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4		
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3		
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5		
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5		
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1		
FLUORANTHENE	UG/L	< 2	< 2	< 2		
FLUORENE	UG/L	< 2	< 2	< 2		
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1		

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE
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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ73728 03/21/94	WELL M17A SJ78046 06/22/94	WELL M17A SJ82067 09/23/94	WELL M17A SJ86002 12/05/94	WELL M17A SJ86003 12/05/94
ACID-BASE NEUTRAL EXTRACTABLE						
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10		
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100		
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12		
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6		
ISOPHORONE	UG/L	< 3	< 3	< 3		
NAPHTHALENE	UG/L	< 2	< 2	< 2		
NITROBENZENE	UG/L	< 2	< 2	< 2		
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30		
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2		
PHENANTHRENE	UG/L	< 1	< 1	< 1		
PYRENE	UG/L	< 2	< 2	< 2		
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3		
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8		
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3		
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3		
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3		
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39		
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17		
2-NITROPHENOL	UG/L	< 5	< 5	< 5		
4-NITROPHENOL	UG/L	< 6	< 6	< 6		
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2		
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16		
PHENOL	UG/L	< 3	< 3	< 3		
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2		
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2		

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE
F-10% RULE EXCEEDED

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M18A SJ73801 03/21/94	WEFI M18A SJ78070 06/22/94	WEFI M18A SJ82085 09/23/94	
ANIONS					
SULFATE	MG/L SO4	2480			
CHLORIDE	MG/L CL	192			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	1200	1200	1300	
MAGNESIUM-HARDNESS	MG/L CACO3	1320	1270	1320	
SODIUM	MG/L NA	458	459	515	
POTASSIUM	MG/L K	9.4	9.6	9.4	
IRON	MG/L FE	0.04	0.08	0.13	
MANGANESE	MG/L MN	0.03	0.018	0.03	
METALS					
ARSENIC	MG/L AS	<0.001		<0.001	
BARIUM	MG/L BA	0.02	0.02	0.02	
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001	<.0001	A
NICKEL	MG/L NI	0.99	0.85	1.66	
SELENIUM	MG/L SE	0.018		0.019	
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	
ZINC	MG/L ZN	0.06	0.02	0.04	
ANTIMONY	MG/L SB	0.001		0.001	
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ73729 03/21/94	WELL M18A SJ78071 06/22/94	WELL M18A SJ82068 09/23/94	WELL M18A SJ86016 12/06/94
FIELD PARAMETERS					
DEPTH TO WATER	FT	40.9		43.5	45.89
DEPTH TO BOTTOM	FT	49.5		49.5	
PERCENT METHANE IN GAS	%CH4			< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2			20	19
FIELD WATER TEMPERATURE	DEG C	21.3		22.8	16.87
FIELD PH	PH	6.75	6.85	6.86	6.83
FIELD CONDUCTIVITY	UMHOS/CM	4900		3780	5214
FIELD DISSOLVED O2	MG/L	3.3		4.80	6.46
FIELD DISSOLVED CO2	MG/L	137.1	51.0	51.8	
FIELD TOTAL ALKALINITY	MG/L	320	304	306	
FIELD HYDROGEN SULFIDE	PPM	< 0.1		< 0.1	
GENERAL					
PH	PH	7.93		7.60	7.41
CONDUCTIVITY	UMHOS/CM	5020		5230	
SUSPENDED SOLIDS	MG/L	47		62	
TOTAL DISSOLVED SOLIDS	MG/L	4663		6022	4869
TOTAL HARDNESS	MG/L CACO3	2520 B		2620 B	
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	
PHENOLS	MG/L C6H5OH	<0.001	0.002	<0.001	
BORON	MG/L B	1.15	0.99	1.13	
ANIONS					
NITRATE NITROGEN	MG/L N	16.8		10.0 A	10.8 A
SULFATE	MG/L SO4	2360 A		2990 A	2870 A
CHLORIDE	MG/L CL	204 A		220 A	221 A
TOTAL ALKALINITY	MG/L CACO3	292		321	
BICARBONATE ALKALINITY	MG/L CACO3	292		321	
TOTAL PHOSPHATE	MG/L PO4	0.38	0.66	0.32	
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	
FLUORIDE	MG/L F	1.29	1.28	1.15	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	1180	1200	1290	
MAGNESIUM-HARDNESS	MG/L CACO3	1300	1270	1330	
SODIUM	MG/L NA	440	454	535	
POTASSIUM	MG/L K	9.5	9.5	9.5	
IRON	MG/L FE	2.78	0.16	1.08	
MANGANESE	MG/L MN	0.06	0.018	0.04	
SOLUBLE IRON	MG/L FE	0.04 C			

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ73729 03/21/94	WELL M18A SJ78071 06/22/94	WELL M18A SJ82068 09/23/94	WELL M18A SJ86016 12/06/94
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	
TOTAL BOD	MG/L O	< 0.7		2	
SOLUBLE BOD	MG/L O	< 0.7		1 D	
TOTAL COD	MG/L O	9		30	
SOLUBLE COD	MG/L O	8		13	
TOTAL ORGANIC CARBON	MG/L C	2.9	3.1	3.0 C	
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9 C	< 0.9	
TOTAL ORGANIC HALOGEN(TOX	UG/L	29	10	16	
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5	
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
METALS					
ARSENIC	MG/L AS	0.001	<0.001	0.001	
BARIUM	MG/L BA	0.05	0.02	0.02	
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	0.62	< 0.01	0.09	
HEXAVALENT CHROMIUM	MG/L CR	< 0.02			
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001	<.0001	
NICKEL	MG/L NI	1.10	0.84	1.30	
SELENIUM	MG/L SE	0.011	0.013	0.016	
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	
ZINC	MG/L ZN	0.08	0.02	0.03	
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001	
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	
SOLUBLE CALCIUM-HARDNESS	MG/L CACO3	1200 C			
SOLUBLE MAGNESIUM-HARDNES	MG/L CACO3	1320 C			
SOLUBLE ARSENIC	MG/L AS	<0.001			
SOLUBLE BARIUM	MG/L BA	0.02 C			
SOLUBLE ANTIMONY	MG/L SB	0.001			
SOLUBLE CADMIUM	MG/L CD	<0.005 C			
SOLUBLE CHROMIUM	MG/L CR	< 0.02 C			
SOLUBLE COBALT	MG/L CO	< 0.04 C			
SOLUBLE COPPER	MG/L CU	< 0.02 C			
SOLUBLE LEAD	MG/L PB	< 0.04 C			

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ73729 03/21/94	WELL M18A SJ7B071 06/22/94	WELL M18A SJ82068 09/23/94	WELL M18A SJ86016 12/06/94
METALS					
SOLUBLE MANGANESE	MG/L MN	0.03 C			
SOLUBLE MERCURY	MG/L HG	<.0001			
SOLUBLE NICKEL	MG/L NI	0.99 C			
SOLUBLE POTASSIUM	MG/L K	9.4 C			
SOLUBLE SELENIUM	MG/L SE	0.018			
SOLUBLE BERYLLIUM	MG/L BE	<.0005 C			
SOLUBLE SILVER	MG/L AG	<0.005 C			
SOLUBLE SODIUM	MG/L NA	458 C			
SOLUBLE ZINC	MG/L ZN	0.06 C			
SOLUBLE THALLIUM	MG/L TL	<0.002 C			
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L			< 0.5	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ73729 03/21/94	WELL M18A SJ78071 06/22/94	WELL M18A SJ82068 09/23/94	WELL M18A SJ86016 12/06/94
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2
METHYL IODIDE	UG/L				< 0.5
METHYLENE BROMIDE	UG/L				< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TOLUENE	UG/L	< 0.3	0.5	< 0.3	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
VINYL ACETATE	UG/L				< 10
O-XYLENE	UG/L				< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 50
FREON 11 (CCL3F)	UG/L				< 1
1,2-DIBROMOETHANE	UG/L				< 0.01
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 10

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ73729 03/21/94	WELL M18A SJ78071 06/22/94	WELL M18A SJ82068 09/23/94	WELL M18A SJ86016 12/06/94
VOLATILE ORGANIC COMPOUNDS					
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3			< 0.5
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 10
4-METHYL-2-PENTANONE	UG/L				< 10
STYRENE	UG/L				< 0.5
M+P-XYLENE	UG/L				< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5
2-HEXANONE	UG/L C6H12O				< 10
ACID-BASE NEUTRAL EXTRACTABLE					
ACENAPHTHENE	UG/L	< 2		< 2	
ACENAPHTHYLENE	UG/L	< 2		< 2	
ANTHRACENE	UG/L	< 1		< 1	
BENZIDINE	UG/L	< 82		< 82	
BENZO(A)ANTHRACENE	UG/L	< 2		< 2	
BENZO(A)PYRENE	UG/L	< 7		< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2		< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 8		< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3		< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5		< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3		< 3	
DIETHYLHEXYL PHTHALATE	UG/L	< 10		2 E	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9		< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3		< 3	
2-CHLORONAPHTHALENE	UG/L	< 1		< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2		< 2	
CHRYSENE	UG/L	< 2		< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6		< 6	
1,2-DICHLOROBENZENE	UG/L	< 10		< 10	
1,3-DICHLOROBENZENE	UG/L	< 10		< 10	
1,4-DICHLOROBENZENE	UG/L	< 2		< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100		< 100	
DIETHYL PHTHALATE	UG/L	< 2		< 2	
DIMETHYL PHTHALATE	UG/L	< 3		< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4		< 4	
2,4-DINITROTOLUENE	UG/L	< 3		< 3	
2,6-DINITROTOLUENE	UG/L	< 5		< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 5		< 5	
1,2-DIPHENYLHYDRAZINE	UG/L	< 1		< 1	
FLUORANTHENE	UG/L	< 2		< 2	
FLUORENE	UG/L	< 2		< 2	
HEXACHLOROBENZENE	UG/L	< 1		< 1	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ73729 03/21/94	WELL M18A SJ78071 06/22/94	WELL M18A SJ82068 09/23/94	WELL M18A SJ86016 12/08/94
ACID-BASE NEUTRAL EXTRACTABLE					
HEXACHLOROBUTADIENE	UG/L	< 10	< 10		
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100		
HEXACHLOROETHANE	UG/L	< 12	< 12		
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6		
ISOPHORONE	UG/L	< 3	< 3		
NAPHTHALENE	UG/L	< 2	< 2		
NITROBENZENE	UG/L	< 2	< 2		
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30		
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2		
PHENANTHRENE	UG/L	< 1	< 1		
PYRENE	UG/L	< 2	< 2		
2,3,7,8-TCDD	UG/L	< 3	< 3		
2-CHLORDPHENOL	UG/L	< 8	< 8		
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3		
2,4-DICHLOROPHENOL	UG/L	< 3	< 3		
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3		
2,4-DINITROPHENOL	UG/L	< 39	< 39		
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17		
2-NITROPHENOL	UG/L	< 5	< 5		
4-NITROPHENOL	UG/L	< 6	< 6		
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2		
PENTACHLOROPHENOL	UG/L	< 16	< 16		
PHENOL	UG/L	< 3	< 3		
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2		
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2		

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M19B SJ73802 03/21/94	WEFI M19B SJ78044 06/22/94	WEFI M19B SJ82116 09/26/94
ANIONS				
SULFATE	MG/L SO4	1410		
CHLORIDE	MG/L CL	132		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	749	704	719
MAGNESIUM-HARONESS	MG/L CACO3	864	786	819
SODIUM	MG/L NA	269	252	267
POTASSIUM	MG/L K	4.5	4.1	4.1
IRON	MG/L FE	0.06	0.15	< 0.02
MANGANESE	MG/L MN	0.08	0.135	0.060
METALS				
ARSENIC	MG/L AS	<0.001	<0.001	<0.001
BARIUM	MG/L BA	0.03	D.04	0.03
CADMIUM	MG/L CD	<0.005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001 A	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.02	0.02	0.01
ANTIMONY	MG/L SB	0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M19B SJ73802 03/21/94	WEFI M19B SJ78044 06/22/94	WEFI M19B SJ82116 09/26/94
ANIONS				
SULFATE	MG/L SO4	1410		
CHLORIDE	MG/L CL	132		
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	749	704	719
MAGNESIUM-HARDNESS	MG/L CACO3	864	786	819
SODIUM	MG/L NA	269	252	267
POTASSIUM	MG/L K	4.5	4.1	4.1
IRON	MG/L FE	0.06	0.15	< 0.02
MANGANESE	MG/L MN	0.06	0.135	0.060
METALS				
ARSENIC	MG/L AS	<0.001	<0.001	<0.001
BARIUM	MG/L BA	0.03	0.04	0.03
CADMIUM	MG/L CD	<0.005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001 A	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.02	0.02	0.01
ANTIMONY	MG/L SB	0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ73730 03/21/94	WELL M19B SJ78047 06/22/94	WELL M19B SJ82120 09/26/94	WELL M19B SJ86004 12/05/94						
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1							
TOTAL BOD	MG/L O	< 0.7	< 0.7	< 0.7							
SOLUBLE BOD	MG/L O	< 0.7	< 0.7	< 0.7							
TOTAL COD	MG/L O	12	7	8							
SOLUBLE COD	MG/L O	7	6	6	D						
TOTAL ORGANIC CARBON	MG/L C	1.7	1.4	2.3							
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9	< 0.9	E						
TOTAL ORGANIC HALOGEN(TOX	UG/L	6.8	5.3	23	F						
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5							
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0							
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0							
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0							
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0							
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0							
METALS											
ARSENIC	MG/L AS	<0.001	<0.001	<0.001							
BARIUM	MG/L BA	0.04	0.03	0.03	E						
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	E						
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	E						
HEXAVALENT CHROMIUM	MG/L CR	< 0.02									
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	E						
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01	E						
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	E						
MERCURY	MG/L HG	<.0001	<.0001	<.0001							
NICKEL	MG/L NI	< 0.03	0.02	< 0.01	E						
SELENIUM	MG/L SE	0.001	<0.001	<0.001							
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	E						
ZINC	MG/L ZN	< 0.02	0.03	0.01	E						
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001							
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005							
THALLIUM	MG/L TL	<0.002	<0.002	<0.002							
SOLUBLE CALCIUM-HARDNESS	MG/L CACO3	749									
SOLUBLE MAGNESIUM-HARDNES	MG/L CACO3	864									
SOLUBLE ARSENIC	MG/L AS	<0.001									
SOLUBLE BARIUM	MG/L BA	0.03									
SOLUBLE ANTIMONY	MG/L SB	0.001									
SOLUBLE CADMIUM	MG/L CD	<0.005									
SOLUBLE CHROMIUM	MG/L CR	< 0.02									
SOLUBLE COBALT	MG/L CO	< 0.04									
SOLUBLE COPPER	MG/L CU	< 0.02									
SOLUBLE LEAD	MG/L PB	< 0.04									

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
F-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ73730 03/21/94	WELL M19B SJ78047 06/22/94	WELL M19B SJB2120 09/26/94	WELL M19B SJ86004 12/05/94
METALS					
SOLUBLE MANGANESE	MG/L MN	0.06			
SOLUBLE MERCURY	MG/L HG	<.0001			
SOLUBLE NICKEL	MG/L NI	< 0.03			
SOLUBLE POTASSIUM	MG/L K	4.5			
SOLUBLE SELENIUM	MG/L SE	<0.001			
SOLUBLE BERYLLIUM	MG/L BE	<.0005			
SOLUBLE SILVER	MG/L AG	<0.005			
SOLUBLE SODIUM	MG/L NA	269			
SOLUBLE ZINC	MG/L ZN	< 0.02			
SOLUBLE THALLIUM	MG/L TL	<0.002			
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L			< D.5	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ73730 03/21/94	WELL M19B SJ78047 06/22/94	WELL M19B SJ82120 09/26/94	WELL M19B SJ86004 12/05/94
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2
METHYL IODIDE	UG/L				< 0.5
METHYLENE BROMIDE	UG/L				< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
VINYL ACETATE	UG/L				< 10
O-XYLENE	UG/L				< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5 E	< 2.5	< 2.5	
ACRYLONITRILE	UG/L	< 1.0 E	< 1.0	< 1.0	< 50
FREON 11 (CCL3F)	UG/L				< 1
1,2-DIBROMOETHANE	UG/L				< 0.01
ACETONE	UG/L	< 5.0 E	< 5.0	< 5.0	< 10

FOOTNOTES : A-AVERAGE OF OUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
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PUENTE HILLS LANOFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ73730 03/21/94	WELL M19B SJ78047 06/22/94	WELL M19B SJ82120 09/26/94	WELL M19B SJ86004 12/05/94
VOLATILE ORGANIC COMPOUNDS					
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3			< 0.5
2-BUTANONE	UG/L	< 1.0 E	< 1.0	< 1.0	< 10
4-METHYL-2-PENTANONE	UG/L				< 10
STYRENE	UG/L				< 0.5
M+P-XYLENE	UG/L				< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5
2-HEXANONE	UG/L C6H12O				< 10
ACID-BASE NEUTRAL EXTRACTABLE					
ACENAPHTHENE	UG/L	< 2	< 2	< 2	
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	
ANTHRACENE	UG/L	< 1	< 1	< 1	
BENZIDINE	UG/L	< 62	< 62	< 62	
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6	< 6	
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	< 10	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	
CHRYSENE	UG/L	< 2	< 2	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3	
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5	
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1	
FLUORANTHENE	UG/L	< 2	< 2	< 2	
FLUORENE	UG/L	< 2	< 2	< 2	
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ73730 03/21/94		WELL M19B SJ78047 06/22/94		WELL M19B SJ82120 09/26/94		WELL M19B SJ86004 12/05/94	
ACID-BASE NEUTRAL EXTRACTABLE									
HEXACHLOROBUTADIENE	UG/L	<	10	<	10	<	10		
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100	<	100		
HEXACHLOROETHANE	UG/L	<	12	<	12	<	12		
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6	<	6		
ISOPHORONE	UG/L	<	3	<	3	<	3		
NAPHTHALENE	UG/L	<	2	<	2	<	2		
NITROBENZENE	UG/L	<	2	<	2	<	2		
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30	<	30		
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2	<	2		
PHENANTHRENE	UG/L	<	1	<	1	<	1		
PYRENE	UG/L	<	2	<	2	<	2		
2,3,7,8-TCDD	UG/L	<	3	<	3	<	3		
2-CHLOROPHENOL	UG/L	<	8	<	8	<	8		
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3	<	3		
2,4-DICHLOROPHENOL	UG/L	<	3	<	3	<	3		
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3	<	3		
2,4-DINITROPHENOL	UG/L	<	39	<	39	<	39		
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17	<	17		
2-NITROPHENOL	UG/L	<	5	<	5	<	5		
4-NITROPHENOL	UG/L	<	6	<	6	<	6		
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2	<	2		
PENTACHLOROPHENOL	UG/L	<	16	<	16	<	16		
PHENOL	UG/L	<	3	<	3	<	3		
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2	<	2		
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2	<	2		

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE
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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M23A SJ73803 03/21/94	WEFI M23A SJ78045 06/22/94	WEFI M23A SJ82117 09/26/94	
ANIONS					
SULFATE	MG/L SO4	1900			
CHLORIDE	MG/L CL	145			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	1200	1060	1110	
MAGNESIUM-HARDNESS	MG/L CACO3	1020	860	893	
SODIUM	MG/L NA	268	238	257	
POTASSIUM	MG/L K	4.7	4.5	4.5	
IRON	MG/L FE	0.10	4.42	3.52	
MANGANESE	MG/L MN	0.37	0.592	0.563	
METALS					
ARSENIC	MG/L AS	0.001	0.001	0.001	
BARIUM	MG/L BA	0.09	0.04	0.02	
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001	<.0001	
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02	
SELENIUM	MG/L SE	0.001	<0.001	<0.001	
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	
ZINC	MG/L ZN	< 0.02	0.02	0.04	
ANTIMONY	MG/L SB	0.001	<0.001	<0.001	
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	A
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	A
TIN	MG/L SN			< 0.06	
VANADIUM	MG/L V			< 0.05	

FOOTNOTES : A-DUPLICATE SPIKE

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ73731 03/21/94	WELL M23A SJ78048 06/22/94	WELL M23A SJ82121 09/26/94	WELL M23A SJ86017 12/06/94
FIELD PARAMETERS					
DEPTH TO WATER	FT	34.8	35.8	37.1	36.31
DEPTH TO BOTTOM	FT	43.5	43.5	43.5	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	17	17	19
FIELD WATER TEMPERATURE	DEG C	23.8	22	22.5	18.52
FIELD PH	PH	6.06	6.53	6.77	6.55
FIELD CONDUCTIVITY	UMHOS/CM	3730	3520	3010	37.22
FIELD DISSOLVED O2	MG/L	2.9	1.35	4.1	0.52
FIELD DISSOLVED CO2	MG/L	150.5	120.0	56.6	
FIELD TOTAL ALKALINITY	MG/L	414	414	404	
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1	
GENERAL					
PH	PH	7.72	7.00 D	7.66	7.29
CONDUCTIVITY	UMHOS/CM	3890	3745 D	3665 D	
SUSPENDED SOLIDS	MG/L	12	13	23	
TOTAL DISSOLVED SOLIDS	MG/L	3511	3459	3359	3191
TOTAL HARDNESS	MG/L CACO3	2220 B	2083 B	1996 B	
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	
PHENOLS	MG/L C6H5OH	0.001	<0.001	0.001	
BORON	MG/L B	0.79 C	0.88 C	0.79	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02	< 0.02	< 0.02 A	< 0.02
SULFATE	MG/L SO4	1950 A	1830	1860 A	1780 A
CHLORIDE	MG/L CL	151 A	140	143 A	136 A
TOTAL ALKALINITY	MG/L CACO3	413	406 C	399	
BICARBONATE ALKALINITY	MG/L CACO3	413	406	399	
TOTAL PHOSPHATE	MG/L PO4	0.20	0.30	0.26	
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1 D	< 0.1	
FLUORIDE	MG/L F	1.09 C	1.20 C	1.14	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	1170	1140	1090	
MAGNESIUM-HARDNESS	MG/L CACO3	1000	943	906	
SODIUM	MG/L NA	265	259	256	
POTASSIUM	MG/L K	4.7	4.9	4.5	
IRON	MG/L FE	2.25	6.37 E	6.26	
MANGANESE	MG/L MN	0.26	0.606 E	0.576	
SOLUBLE IRON	MG/L FE	0.10			

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ73731 03/21/94		WELL M23A SJ78048 06/22/94		WELL M23A SJ82121 09/26/94		WELL M23A SJ86017 12/06/94	
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1		0.1			
TOTAL BOD	MG/L O	< 0.7		1		< 0.7			
SOLUBLE BOD	MG/L O	< 0.7	D	< 0.7	D	< 0.7			
TOTAL COD	MG/L O	7		7		8			
SOLUBLE COD	MG/L O	6	C	5		8			
TOTAL ORGANIC CARBON	MG/L C	1.6		1.1		1.2			
OIL & GREASE	MG/L EXTRAC	< 0.9		< 0.9		< 0.9			
TOTAL ORGANIC HALOGEN(TOX	UG/L	8.2		13	F	17	F		
ACETIC ACID	MG/L	< 2.5		< 2.5		< 2.5			
PROPIONIC ACID	MG/L	< 2.0		< 2.0		< 2.0			
ISOBUTYRIC ACID	MG/L	< 2.0		< 2.0		< 2.0			
BUTYRIC ACID	MG/L	< 2.0		< 2.0		< 2.0			
ISOVALERIC ACID	MG/L	< 2.0		< 2.0		< 2.0			
VALERIC ACID	MG/L	< 2.0		< 2.0		< 2.0			
METALS									
ARSENIC	MG/L AS	0.004		0.004		0.005			
BARIUM	MG/L BA	0.06		0.02	E	0.02			
CADMIUM	MG/L CD	<0.005		<0.003	E	<0.003			
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.01	E	< 0.01			
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	E						
COBALT	MG/L CO	< 0.04		< 0.01	E	< 0.01			
COPPER	MG/L CU	< 0.02		< 0.01	E	< 0.01			
LEAD	MG/L PB	< 0.04		< 0.02		< 0.02			
MERCURY	MG/L HG	<.0001		<.0001		<.0001			
NICKEL	MG/L NI	< 0.03		< 0.02	E	< 0.02			
SELENIUM	MG/L SE	<0.001		<0.001		<0.001			
SILVER	MG/L AG	<0.005		< 0.01		< 0.01			
ZINC	MG/L ZN	< 0.02		0.02		0.01			
ANTIMONY	MG/L SB	<0.001		<0.001		<0.001			
BERYLLIUM	MG/L BE	<.0005		<.0005	E	<.0005			
THALLIUM	MG/L TL	<0.002		<0.002	E	<0.002			
SOLUBLE CALCIUM-HARDNESS	MG/L CACO3	1200							
SOLUBLE MAGNESIUM-HARDNES	MG/L CACO3	1020							
SOLUBLE ARSENIC	MG/L AS	0.001							
SOLUBLE BARIUM	MG/L BA	0.09							
SOLUBLE ANTIMONY	MG/L SB	0.001							
SOLUBLE CADMIUM	MG/L CD	<0.005							
SOLUBLE CHROMIUM	MG/L CR	< 0.02							
SOLUBLE COBALT	MG/L CO	< 0.04							
SOLUBLE COPPER	MG/L CU	< 0.02							
SOLUBLE LEAD	MG/L PB	< 0.04							

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ73731 03/21/94	WELL M23A SJ78048 06/22/94	WELL M23A SJ82121 09/26/94	WELL M23A SJ86017 12/06/94
METALS					
SOLUBLE MANGANESE	MG/L MN	0.37			
SOLUBLE MERCURY	MG/L HG	<.0001			
SOLUBLE NICKEL	MG/L NI	< 0.03			
SOLUBLE POTASSIUM	MG/L K	4.7			
SOLUBLE SELENIUM	MG/L SE	0.001			
SOLUBLE BERYLLIUM	MG/L BE	<.0005			
SOLUBLE SILVER	MG/L AG	<0.005			
SOLUBLE SODIUM	MG/L NA	268			
SOLUBLE ZINC	MG/L ZN	< 0.02			
SOLUBLE THALLIUM	MG/L TL	<0.002			
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	
PP'-ODD	UG/L	< 0.01	< 0.01	< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	
DIELORIN	UG/L	< 0.01	< 0.01	< 0.01	
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L			< 0.5	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ73731 03/21/94	WELL M23A SJ7B04B 06/22/94	WELL M23A SJ82121 09/26/94	WELL M23A SJB6017 12/06/94
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2
METHYL IODIDE	UG/L				< 0.5
METHYLENE BROMIDE	UG/L				< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
VINYL ACETATE	UG/L				< 10
O-XYLENE	UG/L				< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5	< 2.5	
ACRYLONITRILE	UG/L	< 1.0	< 1.0	< 1.0	< 50
FREON 11 (CCL3F)	UG/L				< 1
1,2-DIBROMOETHANE	UG/L				< 0.01
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	< 10

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F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ73731 03/21/94	WELL M23A SJ78048 06/22/94	WELL M23A SJ82121 09/26/94	WELL M23A SJ86017 12/06/94
VOLATILE ORGANIC COMPOUNDS					
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3			< 0.5
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	< 10
4-METHYL-2-PENTANONE	UG/L				< 10
STYRENE	UG/L				< 0.5
M+P-XYLENE	UG/L				< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5
2-HEXANONE	UG/L C6H12O				< 10
ACID-BASE NEUTRAL EXTRACTABLE					
ACENAPHTHENE	UG/L	< 2	< 2	< 2	
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	
ANTHRACENE	UG/L	< 1	< 1	< 1	
BENZIDINE	UG/L	< 62	< 62	< 62	
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	
BENZO(A)PYRENE	UG/L	< 7	< 7	< 7	
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BENZO(G,H,I,)PERYLENE	UG/L	< 8	< 8	< 8	
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3	< 3	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5	< 5	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3	< 3	
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10	0.8 G	
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9	< 9	
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3	< 3	
2-CHLORONAPHTHALENE	UG/L	< 1	< 1	< 1	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	
CHRYSENE	UG/L	< 2	< 2	< 2	
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6	< 6	
1,2-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,3-DICHLOROBENZENE	UG/L	< 10	< 10	< 10	
1,4-DICHLOROBENZENE	UG/L	< 2	< 2	< 2	
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100	< 100	
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	
DIMETHYL PHTHALATE	UG/L	< 3	< 3	< 3	
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4	< 4	
2,4-DINITROTOLUENE	UG/L	< 3	< 3	< 3	
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5	< 5	
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1	< 1	
FLUORANTHENE	UG/L	< 2	< 2	< 2	
FLUORENE	UG/L	< 2	< 2	< 2	
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ73731 03/21/94	WELL M23A SJ78048 06/22/94	WELL M23A SJ82121 09/26/94	WELL M23A SJ86017 12/06/94
ACID-BASE NEUTRAL EXTRACTABLE					
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100	< 100	
HEXACHLOROETHANE	UG/L	< 12	< 12	< 12	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6	< 6	
ISOPHORONE	UG/L	< 3	< 3	< 3	
NAPHTHALENE	UG/L	< 2	< 2	< 2	
NITROBENZENE	UG/L	< 2	< 2	< 2	
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30	< 30	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2	< 2	
PHENANTHRENE	UG/L	< 1	< 1	< 1	
PYRENE	UG/L	< 2	< 2	< 2	
2,3,7,8-TCDD	UG/L	< 3	< 3	< 3	
2-CHLOROPHENOL	UG/L	< 8	< 8	< 8	
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3	< 3	
2,4-DICHLOROPHENOL	UG/L	< 3	< 3	< 3	
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3	< 3	
2,4-DINITROPHENOL	UG/L	< 39	< 39	< 39	
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17	< 17	
2-NITROPHENOL	UG/L	< 5	< 5	< 5	
4-NITROPHENOL	UG/L	< 6	< 6	< 6	
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2	< 2	
PENTACHLOROPHENOL	UG/L	< 16	< 16	< 16	
PHENOL	UG/L	< 3	< 3	< 3	
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2	< 2	
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2	< 2	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-VALUE <MDL, >IDL

APPENDIX A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M13A SJ73832 03/22/94	WEFI M13A SJ78173 06/24/94
ANIONS			
SULFATE	MG/L SO4	448	
CHLORIDE	MG/L CL	61.4	
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	514	474
MAGNESIUM-HARDNESS	MG/L CACO3	251	213
SODIUM	MG/L NA	73.5	72.3
POTASSIUM	MG/L K	5.4	4.9
IRON	MG/L FE	0.05	0.07
MANGANESE	MG/L MN	0.15	0.149
METALS			
ARSENIC	MG/L AS	0.001	0.002
BARIUM	MG/L BA	0.08	0.05
CADMIUM	MG/L CD	<0.005	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01
COPPER	MG/L CU	< 0.04	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01
ANTIMONY	MG/L SB	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ73836 03/22/94	WELL M13A SJ78177 06/24/94
FIELD PARAMETERS			
DEPTH TO WATER	FT	21.0	21.1
DEPTH TO BOTTOM	FT	30.6	30.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	21	21
FIELD WATER TEMPERATURE	DEG C	22	25.4
FIELD PH	PH	6.83	6.95
FIELD CONDUCTIVITY	UMHOS/CM	1233	1254
FIELD DISSOLVED O2	MG/L	1.1	2.0
FIELD DISSOLVED CO2	MG/L	53.5	45.1
FIELD TOTAL ALKALINITY	MG/L	320	342
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1
GENERAL			
PH	PH	7.89	7.39
CONDUCTIVITY	UMHOS/CM	1050	1510
SUSPENDED SOLIDS	MG/L	9	22
TOTAL DISSOLVED SOLIDS	MG/L	728	1137
TOTAL HARDNESS	MG/L CACO3	654 A	715 A
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	0.004	0.003
BORON	MG/L B	0.21	0.63
ANIONS			
NITRATE NITROGEN	MG/L N	< 0.02	< 0.02
SULFATE	MG/L SO4	443	400
CHLORIDE	MG/L CL	63.5	68.0
TOTAL ALKALINITY	MG/L CACO3	312	348
BICARBONATE ALKALINITY	MG/L CACO3	312	348
TOTAL PHOSPHATE	MG/L PO4	0.50	0.88
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1
FLUORIDE	MG/L F	0.30	0.35
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	444	494
MAGNESIUM-HARDNESS	MG/L CACO3	210	221
SODIUM	MG/L NA	67.0	73.8
POTASSIUM	MG/L K	5.3	5.0
IRON	MG/L FE	2.34	1.86
MANGANESE	MG/L MN	0.16	0.190

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ73836 03/22/94	WELL M13A SJ78177 06/24/94
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1
TOTAL BOD	MG/L O	< 0.7	< 0.7
SOLUBLE BOD	MG/L O	< 0.7	< 0.7
TOTAL COD	MG/L O	12	3
SOLUBLE COD	MG/L O	10	3
TOTAL ORGANIC CARBON	MG/L C	6.0	1.4
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9 B
TOTAL ORGANIC HALDGEN(TOX	UG/L	9.5	11
ACETIC ACID	MG/L	< 2.5	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0
METALS			
ARSENIC	MG/L AS	0.006	0.002
BARIUM	MG/L BA	0.07	0.06
CADMIUM	MG/L CD	<0.005	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	
COBALT	MG/L CO	< 0.04	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01
ANTIMONY	MG/L SB	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
PP'-DDE	UG/L	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ73836 03/22/94	WELL M13A SJ78177 06/24/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
ALDRIN	UG/L	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01
AROCLOR 1242	UG/L	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS			
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3
TRICHLDROETHYLENE	UG/L	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ73836 03/22/94	WELL M13A SJ78177 06/24/94
VOLATILE ORGANIC COMPOUNDS			
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0
2-BUTANONE	UG/L	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACTABLE			
ACENAPHTHENE	UG/L	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2
ANTHRACENE	UG/L	< 1	< 1
BENZIDINE	UG/L	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2
BENZO(A)PYRENE	UG/L	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2
CHRYSENE	UG/L	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4
2,4-DINITROTOLUENE	UG/L	< 3	< 3

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M13A SJ73836 03/22/94	WELL M13A SJ78177 06/24/94
ACID-BASE NEUTRAL EXTRACTABLE			
2,6-DINITROTOLUENE	UG/L	< 5	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5	< 5
1,2-DIPHENYLHYDRAZINE	UG/L	< 1	< 1
FLUORANTHENE	UG/L	< 2	< 2
FLUORENE	UG/L	< 2	< 2
HEXACHLOROBENZENE	UG/L	< 1	< 1
HEXACHLOROBUTADIENE	UG/L	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	UG/L	< 100	< 100
HEXACHLOROETHANE	UG/L	< 12	< 12
INDENO(1,2,3-C,D)PYRENE	UG/L	< 6	< 6
ISOPHORONE	UG/L	< 3	< 3
NAPHTHALENE	UG/L	< 2	< 2
NITROBENZENE	UG/L	< 2	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 30	< 30
N-NITROSODI-N-PROPYLAMINE	UG/L	< 2	< 2
PHENANTHRENE	UG/L	< 1	< 1
PYRENE	UG/L	< 2	< 2
2,3,7,8-TCDD	UG/L	< 3	< 3
2-CHLOROPHENOL	UG/L	< 8	< 8
1,2,4-TRICHLOROBENZENE	UG/L	< 3	< 3
2,4-DICHLOROPHENOL	UG/L	< 3	< 3
2,4-DIMETHYLPHENOL	UG/L	< 3	< 3
2,4-DINITROPHENOL	UG/L	< 39	< 39
2-METHYL-4,6DINITROPHENOL	UG/L	< 17	< 17
2-NITROPHENOL	UG/L	< 5	< 5
4-NITROPHENOL	UG/L	< 6	< 6
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	< 2
PENTACHLOROPHENOL	UG/L	< 16	< 16
PHENOL	UG/L	< 3	< 3
2,4,6-TRICHLOROPHENOL	UG/L	< 2	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 2	< 2

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M14A SJ73833 03/22/94	WEFI M14A SJ78174 06/24/94
ANIONS			
SULFATE	MG/L SO4	157	
CHLORIDE	MG/L CL	45.2	
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	234	216
MAGNESIUM-HARDNESS	MG/L CACO3	162	153
SODIUM	MG/L NA	78.4	75.6
POTASSIUM	MG/L K	2.8	3.0
IRON	MG/L FE	0.16	0.25
MANGANESE	MG/L MN	0.13	0.147
METALS			
ARSENIC	MG/L AS	0.003	0.004
BARIUM	MG/L BA	0.04	0.05
CADMIUM	MG/L CD	<0.005	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001
SILVER	MG/L AG	<0.005	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01
ANTIMONY	MG/L SB	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ73837 03/22/94	WELL M14A SJ78178 06/24/94
FIELD PARAMETERS			
DEPTH TO WATER	FT	36.8	36.8
DEPTH TO BOTTOM	FT	69.0	69.0
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	21	
FIELD WATER TEMPERATURE	DEG C	20	21.6
FIELD PH	PH	6.97	7.00
FIELD CONDUCTIVITY	UMHOS/CM	875	872
FIELD DISSOLVED O2	MG/L	1.8	1.7
FIELD DISSOLVED CO2	MG/L	105.3	43.5
FIELD TOTAL ALKALINITY	MG/L	358	314
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1
GENERAL			
PH	PH	8.04	7.57
CONDUCTIVITY	UMHOS/CM	999	983
SUSPENDED SOLIDS	MG/L	15	1
TOTAL DISSOLVED SOLIDS	MG/L	623	628
TOTAL HARDNESS	MG/L CACO3	382 A	374 A
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	0.004	0.002
BORON	MG/L B	0.48	0.78
ANIONS			
NITRATE NITROGEN	MG/L N	< 0.02	< 0.02
SULFATE	MG/L SO4	160	154
CHLORIDE	MG/L CL	45.9	48.5
TOTAL ALKALINITY	MG/L CACO3	304	311
BICARBONATE ALKALINITY	MG/L CACO3	304	311
TOTAL PHOSPHATE	MG/L PO4	0.88	1.02
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1
FLUORIDE	MG/L F	0.64	0.71
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	225	220
MAGNESIUM-HARDNESS	MG/L CACO3	157	154
SODIUM	MG/L NA	76.3	75.6
POTASSIUM	MG/L K	3.0	2.8
IRON	MG/L FE	1.17	0.50
MANGANESE	MG/L MN	0.14	0.145

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ73837 03/22/94	WELL M14A SJ78178 06/24/94
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	0.1	0.1
TOTAL BOD	MG/L O	< 0.7	< 0.7
SOLUBLE BOD	MG/L O	< 0.7	< 0.7
TOTAL COD	MG/L O	< 2	< 2
SOLUBLE COD	MG/L O	< 2	< 2
TOTAL ORGANIC CARBON	MG/L C	0.76	0.78
OIL & GREASE	MG/L EXTRAC	< 0.9 B	< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L	4.0	4.6
ACETIC ACID	MG/L	< 2.5 B	< 2.5
PROPIONIC ACID	MG/L	< 2.0 B	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0 B	< 2.0
BUTYRIC ACID	MG/L	< 2.0 B	< 2.0
ISOVALERIC ACID	MG/L	< 2.0 B	< 2.0
VALERIC ACID	MG/L	< 2.0 B	< 2.0
METALS			
ARSENIC	MG/L AS	0.004	0.004
BARIUM	MG/L BA	0.05	0.05
CADMIUM	MG/L CD	<0.005	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01
HEXAVALENT CHROMIUM	MG/L CR	< 0.02	
COBALT	MG/L CO	< 0.04	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.03	< 0.01
SELENIUM	MG/L SE	<0.001	0.001
SILVER	MG/L AG	<0.005	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01
ANTIMONY	MG/L SB	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
PP'-DDE	UG/L	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01

FOOTNOTES : A-CALCULATED VALUE B-OUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ73837 03/22/94	WELL M14A SJ78178 06/24/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
ALDRIN	UG/L	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01
AROCLOR 1242	UG/L	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1
ARDCLOR 1260	UG/L	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS			
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ73837 03/22/94	WELL M14A SJ78178 06/24/94
VOLATILE ORGANIC COMPOUNDS			
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5	< 2.5
ACRYLONITRILE	UG/L	< 1.0	< 1.0
ACETONE	UG/L	< 5.0	< 5.0
2-BUTANONE	UG/L	< 1.0	< 1.0
ACID-BASE NEUTRAL EXTRACTABLE			
ACENAPHTHENE	UG/L	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2
ANTHRACENE	UG/L	< 1	< 1
BENZIDINE	UG/L	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2
BENZO(A)PYRENE	UG/L	< 7	< 7
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2
BENZO(G,H,I,)PERYLENE	UG/L	< 6	< 6
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 3	< 3
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5	< 5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 3	< 3
DIETHYLHEXYL PHTHALATE	UG/L	< 10	< 10
4-BROMOPHENYL PHENYLETHER	UG/L	< 9	< 9
BUTYLBENZYL PHTHALATE	UG/L	< 3	< 3
2-CHLORONAPHTHALENE	UG/L	< 1	< 1
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2
CHRYSENE	UG/L	< 2	< 2
DIBENZO(A,H)ANTHRACENE	UG/L	< 6	< 6
1,2-DICHLOROBENZENE	UG/L	< 10	< 10
1,3-DICHLOROBENZENE	UG/L	< 10	< 10
1,4-DICHLOROBENZENE	UG/L	< 2	< 2
3,3'-DICHLOROBENZIDINE	UG/L	< 100	< 100
DIETHYL PHTHALATE	UG/L	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 3	< 3
DI-N-BUTYL PHTHALATE	UG/L	< 4	< 4
2,4-DINITROTOLUENE	UG/L	< 3	< 3

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M14A SJ73837 03/22/94		WELL M14A SJ78178 06/24/94	
ACID-BASE NEUTRAL EXTRACTABLE					
2,6-DINITROTOLUENE	UG/L	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2
FLUORENE	UG/L	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1
PYRENE	UG/L	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3
2-CHLOROPHENOL	UG/L	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3
2,4-DICHLDROPHENOL	UG/L	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5
4-NITROPHENOL	UG/L	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16
PHENOL	UG/L	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M16A SJ73834 03/22/94	WEFI M16A SJ78175 06/24/94	WEFI M16A SJ82063 09/23/94	
ANIONS					
SULFATE	MG/L SO4	197			
CHLORIDE	MG/L CL	61.9			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	599	559	522	A
MAGNESIUM-HARDNESS	MG/L CACO3	246	236	221	A
SODIUM	MG/L NA	69.7	71.7	82.0	A
POTASSIUM	MG/L K	4.3	4.3	4.1	A
IRON	MG/L FE	< 0.02	< 0.02	< 0.02	A
MANGANESE	MG/L MN	< 0.01	<0.003	<0.003	A
METALS					
ARSENIC	MG/L AS	<0.003	0.003	0.003	
BARIUM	MG/L BA	0.08	0.08	0.08	A
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	A
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	A
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	A
COPPER	MG/L CU	< 0.02	< 0.01	< 0.01	A
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	A
MERCURY	MG/L HG	<.0001	<.0001	<.0001	
NICKEL	MG/L NI	< 0.03	< 0.02	< 0.02	A
SELENIUM	MG/L SE	0.018	0.017	0.018	
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	A
ZINC	MG/L ZN	< 0.02	< 0.01	< 0.01	A
ANTIMONY	MG/L SB	0.001	<0.001	<0.001	
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ73838 03/22/94	WELL M16A SJ78179 06/24/94	WELL M16A SJ82066 09/23/94
FIELD PARAMETERS				
DEPTH TO WATER	FT	39.1	42.0	49.3
DEPTH TO BOTTOM	FT	84.8	84.8	84.8
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	21	5	19
FIELD WATER TEMPERATURE	DEG C	20	23.1	22.0
FIELD PH	PH	6.58	6.68	6.67
FIELD CONDUCTIVITY	UMHOS/CM	1390	1379	1231
FIELD DISSOLVED O2	MG/L	2.3	3.1	4.20
FIELD DISSOLVED CO2	MG/L	180.6	110.4	92.0
FIELD TOTAL ALKALINITY	MG/L	588	516	434
FIELD HYDROGEN SULFIDE	PPM	< 0.1	< 0.1	< 0.1
GENERAL				
PH	PH	7.71	7.15 C	7.36
CONDUCTIVITY	UMHOS/CM	1690	1650	1590
SUSPENDED SOLIDS	MG/L	5	< 1	6
TOTAL DISSOLVED SOLIDS	MG/L	1135	1172	1143
TOTAL HARDNESS	MG/L CACO3	836 B	797 B	767
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01
PHENOLS	MG/L C6H5OH	0.001	0.003	0.001
BORON	MG/L B	0.35	0.77	0.43
ANIONS				
NITRATE NITROGEN	MG/L N	32.6 A	33.4 A	38.0 F
SULFATE	MG/L SO4	196 A	207 A	206 F
CHLORIDE	MG/L CL	62.4 A	67.1 A	89.1 F
TOTAL ALKALINITY	MG/L CACO3	556	506	432
BICARBONATE ALKALINITY	MG/L CACO3	556	506	432
TOTAL PHOSPHATE	MG/L PO4	0.52	0.56	0.14
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1 C	< 0.1
FLUORIDE	MG/L F	0.21	0.28	0.27
CATIONS				
CALCIUM-HARDNESS	MG/L CACO3	592	562	547
MAGNESIUM-HARDNESS	MG/L CACO3	244	235	220
SODIUM	MG/L NA	70.5	72.1	83.0
POTASSIUM	MG/L K	4.7	4.3	4.1
IRON	MG/L FE	0.99	0.10 A	0.16
MANGANESE	MG/L MN	0.03	<0.003 A	<0.006

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-VALUE <MDL, >IDL
F-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ73838 03/22/94	WELL M16A SJ78179 06/24/94	WELL M16A SJ82066 09/23/94
ORGANIC MATTER				
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1
TOTAL BOD	MG/L O	< 0.7	< 0.7	< 0.7
SOLUBLE BOD	MG/L O	< 0.7	< 0.7 C	< 0.7
TOTAL COD	MG/L O	< 2	2	6
SOLUBLE COD	MG/L O	2	2 D	4
TOTAL ORGANIC CARBON	MG/L C	0.87	1.0	1.6
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9	< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L	11	12	11
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0
METALS				
ARSENIC	MG/L AS	0.003	0.003	0.003
BARIUM	MG/L BA	0.09	0.08 A	0.08
CADMIUM	MG/L CD	<0.005	<0.003 A	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01 A	< 0.01
HEXAVALENT CHROMIUM	MG/L CR	< 0.02		
COBALT	MG/L CO	< 0.04	< 0.01 A	< 0.01
COPPER	MG/L CU	< 0.02	< 0.01 A	< 0.01
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001 A	<.0001 A
NICKEL	MG/L NI	< 0.03	< 0.02 A	< 0.02
SELENIUM	MG/L SE	0.015	0.017	0.018
SILVER	MG/L AG	<0.005	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.02	< 0.01 A	< 0.02
ANTIMONY	MG/L SB	<0.001	<0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005 A	<.0005
THALLIUM	MG/L TL	<0.002	<0.002 A	<0.002
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-VALUE <MDL, >IDL
F-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ73838 03/22/94	WELL M16A SJ78179 06/24/94	WELL M16A SJ82066 09/23/94							
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01							
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01							
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01							
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5							
METHOXYCLDR	UG/L	< 0.01	< 0.01	< 0.01							
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05							
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01							
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01							
ENDDSULFAN II	UG/L	< 0.01	< 0.01	< 0.01							
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1							
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01							
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1							
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1							
ARDCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1							
AROCLDR 1248	UG/L	< 0.1	< 0.1	< 0.1							
ARDCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1							
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05							
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0							
CHLDROFORM	UG/L	< 0.5	< 0.5	< 0.5							
1,1,1-TRICHLOROETHANE	UG/L	1.8	1.9	0.6							
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3							
1,1-DICHLOROETHENE	UG/L	1.6	2.3	0.9	A						
TRICHLORDETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	A						
TETRACHLORDETHYLENE	UG/L	2.5	2.9	1.7							
BRDMODICHLDROMETHANE	UG/L	< 0.5	< 0.5	< 0.5							
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5							
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5							
CHLDROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	A						
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5							
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5							
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5							
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5							
1,1-DICHLOROETHANE	UG/L	0.6	0.6	< 0.3							
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3							
1,2-DICHLDROETHANE	UG/L	< 0.3	< 0.3	< 0.3							
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	A						
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	A						
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3							

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-VALUE <MDL, >IDL
F-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ73838 03/22/94		WELL M16A SJ78179 06/24/94		WELL M16A SJ82066 09/23/94	
VOLATILE ORGANIC COMPOUNDS							
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	0.3	<	0.3	<	0.3
BROMOMETHANE	UG/L	<	2.5	<	2.5	<	2.5
CHLOROETHANE	UG/L	<	2.5	<	2.5	<	2.5
2-CHLOROETHYLVINYLETHER	UG/L	<	1.0	<	1.0	<	1.0
CHLOROMETHANE	UG/L	<	2.5	<	2.5	<	2.5
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	0.5	<	0.5
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLDROETHANE	UG/L	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	2.5	<	2.5	<	2.5 A
ACRYLONITRILE	UG/L	<	1.0	<	1.0	<	1.0 A
ACETONE	UG/L	<	5.0	<	5.0	<	5.0 A
2-BUTANONE	UG/L	<	1.0	<	1.0	<	1.0 A
ACID-BASE NEUTRAL EXTRACTABLE							
ACENAPHTHENE	UG/L	<	2	<	2	<	2
ACENAPHTHYLENE	UG/L	<	2	<	2	<	2
ANTHRACENE	UG/L	<	1	<	1	<	1
BENZIDINE	UG/L	<	62	<	62	<	62
BENZO(A)ANTHRACENE	UG/L	<	2	<	2	<	2
BENZO(A)PYRENE	UG/L	<	7	<	7	<	7
BENZO(B)FLUORANTHENE	UG/L	<	2	<	2	<	2
BENZO(G.H.I.)PERYLENE	UG/L	<	6	<	6	<	6
BENZO(K)FLUORANTHENE	UG/L	<	2	<	2	<	2
BIS(2-CL-ETHOXY)METHANE	UG/L	<	3	<	3	<	3
BIS(2-CHLOROETHYL)ETHER	UG/L	<	5	<	5	<	5
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	3	<	3	<	3
DIETHYLHEXYL PHTHALATE	UG/L	<	10		0.6 E	<	10
4-BROMOPHENYL PHENYLETHER	UG/L	<	9	<	10	<	9
BUTYLBENZYL PHTHALATE	UG/L	<	3	<	3	<	3
2-CHLORONAPHTHALENE	UG/L	<	1	<	1	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2	<	2	<	2
CHRYSENE	UG/L	<	2	<	2	<	2
DIBENZO(A,H)ANTHRACENE	UG/L	<	6	<	6	<	6
1,2-DICHLOROBENZENE	UG/L	<	10	<	10	<	10
1,3-DICHLOROBENZENE	UG/L	<	10	<	10	<	10
1,4-DICHLOROBENZENE	UG/L	<	2	<	2	<	2
3,3'-DICHLOROBENZIDINE	UG/L	<	100	<	100	<	100
DIETHYL PHTHALATE	UG/L	<	2	<	2	<	2
DIMETHYL PHTHALATE	UG/L	<	3	<	3	<	3
DI-N-BUTYL PHTHALATE	UG/L	<	4	<	4	<	4
2,4-DINITROTOLUENE	UG/L	<	3	<	3	<	3

FOOTNOTES : A-OUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-VALUE <MDL, >IDL
F-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANOFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ73838 03/22/94		WELL M16A SJ78179 06/24/94		WELL M16A SJ82066 09/23/94	
ACID-BASE NEUTRAL EXTRACTABLE							
2,6-DINITROTOLUENE	UG/L	<	5	<	5	<	5
DI-N-OCTYL PHTHALATE	UG/L	<	5	<	5	<	5
1,2-DIPHENYLHYDRAZINE	UG/L	<	1	<	1	<	1
FLUORANTHENE	UG/L	<	2	<	2	<	2
FLUORENE	UG/L	<	2	<	2	<	2
HEXACHLOROBENZENE	UG/L	<	1	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	10	<	10	<	10
HEXACHLOROCYCLOPENTADIENE	UG/L	<	100	<	100	<	100
HEXACHLOROETHANE	UG/L	<	12	<	12	<	12
INDENO(1,2,3-C,D)PYRENE	UG/L	<	6	<	6	<	6
ISOPHORONE	UG/L	<	3	<	3	<	3
NAPHTHALENE	UG/L	<	2	<	2	<	2
NITROBENZENE	UG/L	<	2	<	2	<	2
N-NITROSODIMETHYLAMINE	UG/L	<	30	<	30	<	30
N-NITROSODI-N-PROPYLAMINE	UG/L	<	2	<	2	<	2
PHENANTHRENE	UG/L	<	1	<	1	<	1
PYRENE	UG/L	<	2	<	2	<	2
2,3,7,8-TCDD	UG/L	<	3	<	3	<	3
2-CHLOROPHENOL	UG/L	<	8	<	8	<	8
1,2,4-TRICHLOROBENZENE	UG/L	<	3	<	3	<	3
2,4-DICHLOROPHENOL	UG/L	<	3	<	3	<	3
2,4-DIMETHYLPHENOL	UG/L	<	3	<	3	<	3
2,4-DINITROPHENOL	UG/L	<	39	<	39	<	39
2-METHYL-4,6DINITROPHENOL	UG/L	<	17	<	17	<	17
2-NITROPHENOL	UG/L	<	5	<	5	<	5
4-NITROPHENOL	UG/L	<	6	<	6	<	6
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2	<	2
PENTACHLOROPHENOL	UG/L	<	16	<	16	<	16
PHENOL	UG/L	<	3	<	3	<	3
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2	<	2
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2	<	2

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-VALUE <MDL, >IDL
F-AVERAGE

APPENDIX A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEM

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI LCRS SJ73975 03/24/94	EFFI LCRS SJ77180 06/03/94	EFFI LCRS SJ81430 09/09/94	EFFI LCRS SJ82979 10/14/94
ANIONS					
SULFATE	MG/L SO4	2720			
CHLORIDE	MG/L CL	867			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	699	552	969	
MAGNESIUM-HARDNESS	MG/L CACO3	1640	2270	4280	
SODIUM	MG/L NA	757	1280	1640	
POTASSIUM	MG/L K	21.1	21.4	36.8	
IRON	MG/L FE	0.07	< 0.02	< 0.02	0.19 B
MANGANESE	MG/L MN	1.10	0.011	1.82	1.05
METALS					
ARSENIC	MG/L AS	0.015	0.013	0.010	0.009
BARIUM	MG/L BA	0.08	0.04	0.02	0.03 B
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	0.01	0.08	0.04
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001 A	<.0001
NICKEL	MG/L NI	< 0.03	0.02	0.08	0.04
SELENIUM	MG/L SE	<0.001	<0.001	0.005	0.005
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	0.06	0.01	< 0.01	0.07 B
ANTIMONY	MG/L SB	0.001	<0.001	0.001	<0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN				< 0.06
VANADIUM	MG/L V				< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL LCRS SJ73977 03/24/94	EFFL LCRS SJ77182 06/03/94	EFFL LCRS SJ81431 09/09/94	EFFL LCRS SJ82980 10/14/94
FIELD PARAMETERS					
FIELD WATER TEMPERATURE	DEG C		20.6	23.9	
FIELD PH	PH		8.03	7.76	
FIELD CONDUCTIVITY	UMHOS/CM		8130	11470	
FIELD DISSOLVED O2	MG/L		7.5	2.7	
FIELD DISSOLVED CO2	MG/L		31.8	38.4	
FIELD TOTAL ALKALINITY	MG/L		580	668	
FIELD HYDROGEN SULFIDE	PPM		< 0.1	< 0.1	
GENERAL					
PH	PH	7.74	8.19	8.10 E	8.29
CONDUCTIVITY	UMHOS/CM	6530	8400	12000	11600
SUSPENDED SOLIDS	MG/L	< 1	1	12	
TOTAL DISSOLVED SOLIDS	MG/L	5636	7296	11960	11500
TOTAL HARDNESS	MG/L CACO3	2510 A	2804 A	5540 A	5238 A
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.01	<0.002
PHENOLS	MG/L C6H5OH	0.007	0.005	0.001	
BORON	MG/L B	2.85	4.14	4.73	4.18
ANIONS					
NITRATE NITROGEN	MG/L N	0.25	2.87	16.9 F	14.9 F
SULFATE	MG/L SO4	2730	3350	7500 F	6580
CHLORIDE	MG/L CL	678	903	768 F	879 F
TOTAL ALKALINITY	MG/L CACO3	618	605	658	707
BICARBONATE ALKALINITY	MG/L CACO3	818	605	658	707
TOTAL PHOSPHATE	MG/L PO4	0.38	0.52	0.36	
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	< 0.1 E
FLUORIDE	MG/L F	0.35	0.28	0.89	0.73
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	739	564	1010	918 C
MAGNESIUM-HARDNESS	MG/L CACO3	1770	2240	4530	4320 C
SODIUM	MG/L NA	831	1260	1670	1670 C
POTASSIUM	MG/L K	21.6	21.8	45.8	34.6 C
IRON	MG/L FE	0.54	0.05	0.16	0.07 C
MANGANESE	MG/L MN	1.10	0.065	1.69	1.03 C
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	2.1	1.7	1.1	< 0.1
TOTAL BOD	MG/L O	2	13	11	5

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ORGANIC MATTER					
SOLUBLE BOD	MG/L O	1	< 0.7	1 E	< 0.7
TOTAL COD	MG/L O	99	78	338	180
SOLUBLE COD	MG/L O	96	77	334 G	179
TOTAL ORGANIC CARBON	MG/L C	33	25	110	63
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9 C	< 0.9	< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L	260 B	340 D	300 D	190 B
ACETIC ACID	MG/L	< 2.5	< 2.5	< 2.5	
PROPIONIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOBUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
BUTYRIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
ISOVALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
VALERIC ACID	MG/L	< 2.0	< 2.0	< 2.0	
METALS					
ARSENIC	MG/L AS	0.020	0.013	0.010	0.009
BARIUM	MG/L BA	0.09	0.04	0.02	0.01 C
CADMIUM	MG/L CD	<0.005	<0.003	<0.003	<0.003 C
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01	< 0.01 C
HEXAVALENT CHROMIUM	MG/L CR	< 0.02			
COBALT	MG/L CO	< 0.04	< 0.01	< 0.01	< 0.01 C
COPPER	MG/L CU	0.02	0.06	0.18	0.04 C
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02	< 0.02 C
MERCURY	MG/L HG	<.0001	<.0001	<.0001 F	<.0001 C
NICKEL	MG/L NI	< 0.03	< 0.01	0.08	0.03 C
SELENIUM	MG/L SE	<0.001	0.001	0.009	0.005
SILVER	MG/L AG	<0.005	< 0.01	< 0.01	< 0.01 C
ZINC	MG/L ZN	0.06	0.04	0.04	0.06 C
ANTIMONY	MG/L SB	<0.001	<0.001	0.001	0.001
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005 C
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002 C
TIN	MG/L SN				< 0.06 C
VANADIUM	MG/L V				< 0.05 C
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L				0.14
DINOSEB	UG/L				< 0.2
THIONAZIN	UG/L				< 1
DIMETHOATE	UG/L				< 1
DISULFOTON	UG/L				< 1
METHYL PARATHION	UG/L				< 1
ETHYL PARATHION	UG/L				< 1

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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PHORATE	UG/L				< 1
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DIELORIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D(ACID)	UG/L				1.02
2,4,5-TP(SILVEX)	UG/L				< 0.1
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L				< 10
BROMOCHLOROMETHANE	UG/L				< 0.5
CHLOROPRENE	UG/L				< 100
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2
1,3-DICHLOROPROPANE	UG/L				< 0.5
2,2-DICHLOROPROPANE	UG/L				< 0.5
1,1-DICHLOROPROPENE	UG/L				< 0.5
ISOBUTYL ALCOHOL	UG/L				< 100
METHACRYLONITRILE	UG/L				< 10
METHYL IODIDE	UG/L				< 0.5

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VOLATILE ORGANIC COMPOUNDS					
METHYLENE BROMIDE	UG/L				< 0.5
PROPIONITRILE	UG/L				< 20
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5
METHYL METHACRYLATE	UG/L				< 10
ETHYL METHACRYLATE	UG/L				< 10
METHYLENE CHLORIDE	UG/L	3.4	< 1.0	< 2.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	0.7	< 0.3	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	0.9	< 0.3	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
P-DICHLOROBENZENE	UG/L	1.5	< 0.5	< 1.0	< 0.5
1,1-DICHLOROETHANE	UG/L	9.9	0.3	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	0.8	< 0.3	< 0.5	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.5	< 0.5
TOLUENE	UG/L	2.1	< 0.3	< 0.5	< 0.5
ETHYL BENZENE	UG/L	0.6	< 0.3	< 0.5	< 0.5
VINYL ACETATE	UG/L				< 10
O-XYLENE	UG/L				< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 5.0	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 5.0	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 2.0	< 1
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 5.0	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 0.5
ACROLEIN	UG/L	< 75	< 2.5	< 7.5	< 200
ACRYLONITRILE	UG/L	< 25	< 1.0	< 2.5	< 50
ACETONITRILE	UG/L				< 100
FREON 12 (CCL2F2)	UG/L				< 0.5
FREON 11 (CCL3F)	UG/L				< 1

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VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L				< 0.01
ACETONE	UG/L	< 150	< 5.0	< 15	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L				< 0.5
2-BUTANONE	UG/L	< 25	< 1.0	< 2.5	< 10
4-METHYL-2-PENTANONE	UG/L				< 10
STYRENE	UG/L				< 0.5
2,4,5-TRICHLOROPHENOL	UG/L				< 2
M+P-XYLENE	UG/L				< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5
2-HEXANONE	UG/L C6H12O				< 10
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L				< 4
2-ACETYLAMINOFLUORENE	UG/L				< 3
4-AMINOBIPHENYL	UG/L				< 5
BENZYL ALCOHOL	UG/L				< 5
P-CHLOROANILINE	UG/L				< 6
CHLOROBENZILATE	UG/L				< 3
DIALLATE	UG/L				< 4
DIBENZOFURAN	UG/L				< 4
2,6-DICHLOROPHENOL	UG/L				< 3
P(DIMETHYLAMINO)AZOBENZEN	UG/L				< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L				< 15
3,3'-DIMETHYLBENZIDINE	UG/L				< 4
M-DINITROBENZENE	UG/L				< 4
DIPHENYLAMINE	UG/L				< 10
ETHYL METHANESULFONATE	UG/L				< 4
FAMPHUR	UG/L				< 50
HEXACHLOROPROPENE	UG/L				< 20
ISODRIN	UG/L				< 5
ISOSAFROLE	UG/L				< 5
KEPONE	UG/L				< 50
METHAPYRILENE	UG/L				< 5
3-METHYLCHOLANTHRENE	UG/L				< 13
METHYL METHANESULFONATE	UG/L				< 11
2-METHYLNAPHTHALENE	UG/L				< 5
1,4-NAPHTHOQUINONE	UG/L				< 8
1-NAPHTHYLAMINE	UG/L				< 4
2-NAPHTHYLAMINE	UG/L				< 4
O-NITROANILINE	UG/L				< 4
M-NITROANILINE	UG/L				< 4
P-NITROANILINE	UG/L				< 4

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ACID-BASE NEUTRAL EXTRACTABLE									
N-NITROSODI-N-BUTYLAMINE	UG/L							<	5
N-NITROSODIETHYLAMINE	UG/L							<	5
N-NITROSOMETHYLETHYLAMINE	UG/L							<	6
N-NITROSOPIPERIDINE	UG/L							<	5
N-NITROSOPYRROLIDINE	UG/L							<	5
5-NITRO-O-TOLUIDINE	UG/L							<	5
PENTACHLOROBENZENE	UG/L							<	4
PENTACHLORONITROBENZENE	UG/L							<	4
PHENACETIN	UG/L							<	4
P-PHENYLENEDIAMINE	UG/L							<	20
PRONAMIDE	UG/L							<	5
SAFROLE	UG/L							<	5
1,2,4,5-TETRACHLOROBENZEN	UG/L							<	5
2,3,4,6-TETRACHLOROPHENOL	UG/L							<	5
O-TOLUIDINE	UG/L							<	5
O,O,O-TRIETHYLPHOSPHOROTH	UG/L							<	5
SYM-TRINITROBENZENE	UG/L							<	48
ACENAPHTHENE	UG/L	<	20	<	20	<	20	<	2
ACENAPHTHYLENE	UG/L	<	20	<	20	<	20	<	2
ANTHRACENE	UG/L	<	10	<	10	<	10	<	2
BENZIDINE	UG/L	<	620	<	620	<	620	<	62
BENZO(A)ANTHRACENE	UG/L	<	20	<	20	<	20	<	2
BENZO(A)PYRENE	UG/L	<	70	<	70	<	70	<	0.3
BENZO(B)FLUORANTHENE	UG/L	<	20	<	20	<	20	<	2
BENZO(G,H,I,)PERYLENE	UG/L	<	60	<	60	<	60	<	1
BENZO(K)FLUORANTHENE	UG/L	<	20	<	20	<	20	<	2
BIS(2-CL-ETHOXY)METHANE	UG/L	<	30	<	30	<	30	<	2
BIS(2-CHLOROETHYL)ETHER	UG/L	<	50	<	50	<	50	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	30	<	30	<	30	<	7
DIETHYLHEXYL PHTHALATE	UG/L	<	100	<	100	<	100	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	90	<	90	<	90	<	2
BUTYLBENZYL PHTHALATE	UG/L	<	30	<	30	<	30	<	2
2-CHLORONAPHTHALENE	UG/L	<	10	<	10	<	10	<	3
4-CHLOROPHENYLPHENYLETHER	UG/L	<	20	<	20	<	20	<	2
CHRYSENE	UG/L	<	20	<	20	<	20	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	80	<	80	<	60	<	1
1,2-DICHLOROBENZENE	UG/L	<	100	<	100	<	100		
1,3-DICHLOROBENZENE	UG/L	<	100	<	100	<	100		
1,4-DICHLOROBENZENE	UG/L	<	20	<	20	<	20		
3,3'-DICHLOROBENZIDINE	UG/L	<	1000	<	1000	<	1000	<	14
DIETHYL PHTHALATE	UG/L	<	20	<	20	<	20	<	2
DIMETHYL PHTHALATE	UG/L	<	30	<	30	<	30	<	2
DI-N-BUTYL PHTHALATE	UG/L	<	40	<	40	<	40	<	1

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ACID-BASE NEUTRAL EXTRACTABLE					
2,4-DINITROTOLUENE	UG/L	< 30	< 30	< 30	< 2
2,6-DINITROTOLUENE	UG/L	< 50	< 50	< 50	< 2
DI-N-OCTYL PHTHALATE	UG/L	< 50	< 50	< 50	< 2
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	< 10	< 10	
FLUORANTHENE	UG/L	< 20	< 20	< 20	< 2
FLUORENE	UG/L	< 20	< 20	< 20	< 2
HEXACHLOROBENZENE	UG/L	< 10	< 10	< 10	< 1
HEXACHLOROBUTADIENE	UG/L	< 100	< 100	< 100	< 4
HEXACHLOROCYCLOPENTADIENE	UG/L	< 1000	< 1000	< 1000	< 30
HEXACHLOROETHANE	UG/L	< 120	< 120	< 120	< 4
INDENO(1,2,3-C,D)PYRENE	UG/L	< 60	< 60	< 60	< 2
ISOPHORONE	UG/L	< 30	< 30	< 30	0.6 H
NAPHTHALENE	UG/L	< 20	< 20	< 20	< 3
NITROBENZENE	UG/L	< 20	< 20	< 20	< 2
N-NITROSODIMETHYLAMINE	UG/L	< 300	< 300	< 300	< 1
N-NITROSODI-N-PROPYLAMINE	UG/L	< 20	< 20	< 20	< 3
PHENANTHRENE	UG/L	< 10	< 10	< 10	< 2
PYRENE	UG/L	< 20	< 20	< 20	< 1
2,3,7,8-TCDD	UG/L	< 30	< 30	< 30	
2-CHLOROPHENOL	UG/L	< 80	< 80	< 80	< 2
1,2,4-TRICHLOROBENZENE	UG/L	< 30	< 30	< 30	< 4
2,4-DICHLOROPHENOL	UG/L	< 30	< 30	< 30	< 2
2,4-DIMETHYLPHENOL	UG/L	< 30	< 30	< 30	< 2
2,4-DINITROPHENOL	UG/L	< 390	< 390	< 390	< 19
2-METHYL-4,6DINITROPHENOL	UG/L	< 170	< 170	< 170	< 2
2-NITROPHENOL	UG/L	< 50	< 50	< 50	< 3
4-NITROPHENOL	UG/L	< 60	< 60	< 60	< 18
4-CHLORO-3-METHYLPHENOL	UG/L	< 20	< 20	< 20	< 2
PENTACHLOROPHENOL	UG/L	< 160	< 160	< 160	< 0.5
PHENOL	UG/L	< 30	< 30	< 30	< 2
2,4,6-TRICHLOROPHENOL	UG/L	< 20	< 20	< 20	< 2
N-NITROSODIPHENYLAMINE	UG/L	< 20	< 20	< 20	< 2
O-CRESOL	UG/L				< 4
M+P CRESOL	UG/L				< 3

FOOTNOTES : A-CALCULATED VALUE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-AVERAGE OF DUPS
F-AVERAGE G-DUP & SPIKE H-VALUE <MDL, >IDL

APPENDIX A.7

WATER QUALITY DATA - VADOSE ZONE LYSIMETERS

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L3 SJ74064 03/25/94	LYS L3 SJ77852 06/17/94	LYS L3 SJ81913 09/21/94
METALS				
CADMIUM	MG/L CD	<0.005	0.011	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01
COPPER	MG/L CU	0.03	0.04	0.02
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
NICKEL	MG/L NI	< 0.03	0.02	< 0.02
ZINC	MG/L ZN	0.32	0.30	0.39
VOLATILE ORGANIC COMPOUNDS				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	0.6	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	0.8	0.7	0.8
TETRACHLOROETHYLENE	UG/L	7.7	7.3	6.7
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLDROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5
ACETONE	UG/L	< 5.0	< 5.0 A	< 5.0
2-BUTANONE	UG/L	< 1.0	< 1.0 A	< 1.0

FOOTNOTES : A-DUPLICATE SPIKE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L5 SJ74086 03/25/94	LYS L5 SJ77853 06/17/94	LYS L5 SJ81914 09/21/94
METALS				
CADMIUM	MG/L CD	<0.005	0.008	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.02
COPPER	MG/L CU	0.08	0.08	0.07
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02
NICKEL	MG/L NI	0.03	0.04	< 0.04
ZINC	MG/L ZN	0.24	0.35	0.20

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	LYS L6 SJ74067 03/25/94	LYS L6 SJ77854 06/17/94	LYS L6 SJ81915 09/21/94		
METALS						
CADMIUM	MG/L CD	<0.005	0.009	<0.003		
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.01	< 0.01		
COPPER	MG/L CU	0.08	0.05	0.04		
LEAD	MG/L PB	< 0.04	< 0.02	< 0.02		
NICKEL	MG/L NI	< 0.03	0.02	< 0.02		
ZINC	MG/L ZN	0.04	0.05	0.02		
VOLATILE ORGANIC COMPOUNDS						
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0		
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5		
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5		
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3		
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3		
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3		
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3		
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5		
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5		
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5		
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5		
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5		
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5		
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5		
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5		
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3		
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3		
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3		
BENZENE	UG/L	< 0.3	< 0.3	< 0.3		
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3		
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3		
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3		
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5		
CHLORDETHANE	UG/L	< 2.5	< 2.5	< 2.5		
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0		
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5		
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5		
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5		
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5		
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5		
ACETONE	UG/L	< 5.0	< 5.0	< 5.0	A	
2-BUTANONE	UG/L	< 1.0	< 1.0	< 1.0	A	

FOOTNOTES : A-DUPLICATE SPIKE

APPENDIX A.8

WATER QUALITY DATA - SURFACE RUNOFF

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SO1 SJ74010 03/24/94	RUN SD1 SJ75302 04/25/94	RUN SO2 SJ74011 03/24/94	RUN SO2 SJ75303 04/25/94	RUN SO3 SJ71613 02/04/94	RUN SO3 SJ72291 02/17/94	RUN SO3 SJ85124 11/10/94	RUN SD4 SJ71690 02/07/94	RUN SD4 SJ72288 02/17/94	RUN SD4 SJ85125 11/10/94
GENERAL											
PH	PH	7.7	7.5	7.9	7.4	7.4	7.8	6.9	7.6	7.7	6.9
CONDUCTIVITY	UMHOS/CM	653	518	780	1370	891	405	897	250	155	1170
SUSPENDED SOLIDS	MG/L	788	40900	2190	14800	23	6540	364	119	1440	72.0
TOTAL DISSOLVED SOLIDS	MG/L	486	630	533	1460	835	590		156	144	
ANIONS											
NITRATE NITROGEN	MG/L N	0.61	3.5	0.04	0.08	19	3.9		1.7	3.9	
ORGANIC MATTER											
TOTAL ORGANIC CARBON	MG/L C	5.2	82	120	410	33	18	32	29	14	49
OIL & GREASE	MG/L EXTRAC	< 5	13.8	20.4	22.0	8.5	7.1	< 5	< 5	6.7	< 5
METALS											
ARSENIC	MG/L AS	0.004	0.285	0.013	0.139	<0.003	0.058		<0.003	0.015	
BARIUM	MG/L BA	0.32	7.84	0.71	5.42	0.06	1.04		0.06	0.38	
ALUMINUM	MG/L AL	23.1		36.6		0.60	125		2.93	44.6	
CADMIUM	MG/L CD	<0.005	0.04	0.02	0.05	< 0.01	< 0.01		< 0.01	< 0.01	
TOTAL CHROMIUM	MG/L CR	0.06	1.78	0.12	0.97	< 0.02	0.29		< 0.02	0.13	
COBALT	MG/L CO	< 0.05	0.58	0.06	0.35	< 0.05	< 0.05		< 0.05	< 0.05	
COPPER	MG/L CU	0.08	1.45	0.27	1.90	< 0.02	0.28		0.04	0.11	
LEAD	MG/L PB	< 0.05	1.38	0.20	1.16	< 0.10	0.14		< 0.10	< 0.10	
MERCURY	MG/L HG	<.0003	.0004 A	.0017	.0007	<.0005	.0013		<.0005	.0006	
NICKEL	MG/L NI	< 0.05	1.34	0.14	0.87	< 0.05	0.24		< 0.05	0.09	
SELENIUM	MG/L SE	<0.005	< 0.01	<0.005	0.009 A	< 0.01	< 0.01		< 0.01	< 0.01	
SILVER	MG/L AG	< 0.02	< 0.02	< 0.02	0.01 A	< 0.02	< 0.02		< 0.02	< 0.02	
ZINC	MG/L ZN	0.38	5.33	1.10	6.78	0.17	0.94		0.41	0.46	
ANTIMONY	MG/L SB	<0.003	0.030	<0.003	0.030	<0.003	0.010		<0.003	0.004	
BERYLLIUM	MG/L BE	<0.004	0.03	<0.004	0.02	< 0.02	< 0.02		< 0.02	< 0.02	
MOLYBDENUM	MG/L MO	< 0.20	0.42	< 0.20	0.28	< 0.20	< 0.20		< 0.20	< 0.20	
THALLIUM	MG/L TL	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	
TIN	MG/L SN	< 0.20	0.56	0.46	0.45	< 0.20	< 0.20		< 0.20	< 0.20	
VANADIUM	MG/L V	0.09	2.18	0.33	1.34	< 0.05	0.39		< 0.05	0.14	
SOLUBLE ARSENIC	MG/L AS	<0.003	0.006	<0.003	0.007	<0.003	0.004		<0.003	<0.003	
SOLUBLE BARIUM	MG/L BA	0.05	0.05	0.05	0.08	0.06	0.03		0.04	< 0.02	
SOLUBLE ANTIMONY	MG/L SB	<0.003	0.002 A	<0.003	0.007	<0.003	<0.003		<0.003	<0.003	
SOLUBLE CADMIUM	MG/L CD	<0.005	< 0.01	<0.005	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	
SOLUBLE CHROMIUM	MG/L CR	< 0.02	0.04	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	
SOLUBLE COBALT	MG/L CO	< 0.05	< 0.05	< 0.05	0.01 A	< 0.05	< 0.05		< 0.05	< 0.05	
SOLUBLE COPPER	MG/L CU	< 0.02	0.02	< 0.02	0.02	< 0.02	< 0.02		0.06	< 0.02	
SOLUBLE LEAD	MG/L PB	< 0.05	0.15	< 0.05	0.15	< 0.10	< 0.10		< 0.10	< 0.10	

FOOTNOTES : A-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD1 SJ74010 03/24/94	RUN SD1 SJ75302 04/25/94	RUN SD2 SJ74011 03/24/94	RUN SD2 SJ75303 04/25/94	RUN SD3 SJ71613 02/04/94	RUN SD3 SJ72291 02/17/94	RUN SD3 SJ85124 11/10/94	RUN SD4 SJ71690 02/07/94	RUN SD4 SJ72288 02/17/94	RUN SD4 SJ85125 11/10/94
METALS											
SOLUBLE MERCURY	MG/L HG	<.0003	.0002 A	<.0003	<.0005	<.0005	<.0005		<.0005	<.0005	
SOLUBLE NICKEL	MG/L NI	< 0.05	< 0.05	< 0.05	0.06	< 0.05	< 0.05		< 0.05	< 0.05	
SOLUBLE SELENIUM	MG/L SE	<0.005	< 0.01	<0.005	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	
SOLUBLE BERYLLIUM	MG/L BE	<0.004	< 0.02	<0.004	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	
SOLUBLE SILVER	MG/L AG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	
SOLUBLE ZINC	MG/L ZN	0.05	0.10	0.04	0.12	0.18	< 0.02		0.38	0.03	
SOLUBLE ALUMINUM	MG/L AL	0.27		0.29		0.34	0.19		0.23	0.13	
SOLUBLE MOLYBDENUM	MG/L MO	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	
SOLUBLE THALLIUM	MG/L TL	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	
SOLUBLE TIN	MG/L SN	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	
SOLUBLE VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		0.06	0.43	
PP'-DDD	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	0.13	
PP'-DDT	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
ALPHA-BHC	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
LINDANE (GAMMA-BHC)	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
HEPTACHLOR	UG/L	<0.011	< 0.02	<0.012	< 0.03	<0.013	< 0.01		<0.014	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	<0.011	< 0.02	<0.012	< 0.03	<0.013	< 0.01		<0.014	< 0.01	
ALDRIN	UG/L	<0.022	< 0.05	0.04	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
DIELDRIN	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
ENDRIN	UG/L	<0.011	< 0.02	<0.012	< 0.05	<0.013	< 0.01		<0.014	< 0.01	
TOXAPHENE	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
AROCLOR 1242	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
AROCLOR 1254	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
BETA-BHC	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
DELTA-BHC	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
ENDOSULFAN I	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
ENDOSULFAN II	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
ENDOSULFAN SULFATE	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
ENDRIN ALDEHYDE	UG/L	<0.022	< 0.05	<0.024	< 0.05	<0.027	< 0.02		<0.027	< 0.03	
AROCLOR 1016	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
AROCLOR 1221	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
AROCLOR 1232	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
AROCLOR 1248	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
AROCLOR 1260	UG/L	< 0.55	< 1.2	< 0.6	< 1.3	<0.667	< 0.55		<0.685	< 0.65	
TECHNICAL CHLORDANE	UG/L	< 0.22	< 0.48	< 0.24	< 0.52	<0.267	< 0.22		<0.279	< 0.26	
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L							< 0.5			< 0.5

FOOTNOTES : A-CHECK NOTES TO USER

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD1 SJ74010 03/24/94	RUN SD1 SJ75302 04/25/94	RUN SD2 SJ74011 03/24/94	RUN SD2 SJ75303 04/25/94	RUN SD3 SJ71613 02/04/94	RUN SD3 SJ72291 02/17/94	RUN SD3 SJ85124 11/10/94	RUN SD4 SJ71690 02/07/94	RUN SD4 SJ72288 02/17/94	RUN SD4 SJ85125 11/10/94
VOLATILE ORGANIC COMPOUNDS											
1,2-DIBROMO-3-CHLOROPROPA	UG/L							< 0.05			< 0.05
T-1,4-DICHLORO-2-BUTENE	UG/L							< 2			< 2
METHYL IODIDE	UG/L							< 0.5			< 0.5
METHYLENE BROMIDE	UG/L							< 0.5			< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L							< 0.5			< 0.5
1,2,3-TRICHLOROPROPANE	UG/L							< 0.5			< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 1	< 1	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L							< 10			< 10
O-XYLENE	UG/L							< 0.5			< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L							< 50			< 50
FREON 11 (CCL3F)	UG/L							< 1			< 1
1,2-DIBROMOETHANE	UG/L							< 0.05			< 0.05
ACETONE	UG/L							< 10			< 10
CIS-1,2-DICHLOROETHYLENE	UG/L							< 0.5			< 0.5

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VOLATILE ORGANIC COMPOUNDS											
2-BUTANONE	UG/L							< 10			< 10
4-METHYL-2-PENTANONE	UG/L							< 10			< 10
STYRENE	UG/L							< 0.5			< 0.5
M+P-XYLENE	UG/L							< 0.5			< 0.5
CARBON DISULFIDE	UG/L CS2							< 0.5			< 0.5
2-HEXANONE	UG/L C6H12O							< 10			< 10
ACID-BASE NEUTRAL EXTRACTABLE											
ACENAPHTHENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
ACENAPHTHYLENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
ANTHRACENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
BENZIDINE	UG/L	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	
BENZO(A)ANTHRACENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
BENZO(A)PYRENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
BENZO(B)FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
BENZO(G,H,I,)PERYLENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
BENZO(K)FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
DIETHYLHEXYL PHTHALATE	UG/L	< 20	< 20	< 20	< 20	< 20	< 20		< 20	< 20	
4-BROMOPHENYL PHENYLETHER	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
BUTYLBENZYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
2-CHLORONAPHTHALENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
CHRYSENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
DIBENZO(A,H)ANTHRACENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
1,2-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
1,3-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
1,4-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
3,3'-DICHLOROBENZIDINE	UG/L	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	
DIETHYL PHTHALATE	UG/L	5.1	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
DIMETHYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
DI-N-BUTYL PHTHALATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
2,4-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
FLUORENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
HEXACHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	

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ACID-BASE NEUTRAL EXTRACTABLE											
HEXACHLOROCYCLOPENTADIENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
HEXACHLOROETHANE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
ISOPHORONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
NAPHTHALENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
NITROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
N-NITROSODIMETHYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
PHENANTHRENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
PYRENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
2,3,7,8-TCDD	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	
2-CHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
1,2,4-TRICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
2,4-DICHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
2,4-DIMETHYLPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
2,4-DINITROPHENOL	UG/L	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	
2-METHYL-4,6DINITROPHENOL	UG/L	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	
2-NITROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
4-NITROPHENOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
4-CHLORO-3-METHYLPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
PENTACHLOROPHENOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
PHENOL	UG/L	< 5	< 5	8.0	17	< 5	< 5		< 5	< 5	
2,4,6-TRICHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	
N-NITROSODIPHENYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	

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GENERAL											
PH	PH	7.6	8.0	6.9	7.6	7.5					
CONDUCTIVITY	UMHOS/CM	1210	133	353	2780	2210					
SUSPENDED SOLIDS	MG/L	8330	2770	450	22200	18300					
TOTAL DISSOLVED SOLIDS	MG/L	550	104		2640	1970					
ANIONS											
NITRATE NITROGEN	MG/L N	3.7	< 1.0		0.04	210					
ORGANIC MATTER											
TOTAL ORGANIC CARBON	MG/L C	25	7.1	30	210	120					
OIL & GREASE	MG/L EXTRAC	7.3	6.2	20	15.1	6.2					
METALS											
ARSENIC	MG/L AS	0.030	0.022		0.18	0.207					
BARIUM	MG/L BA	0.66	0.68		1.93	3.86					
ALUMINUM	MG/L AL	84.9	63.1		155						
CADMIUM	MG/L CD	< 0.01	< 0.01		0.03	0.03					
TOTAL CHROMIUM	MG/L CR	0.13	0.11		0.36	1.22					
COBALT	MG/L CO	0.06	< 0.05		0.20	0.42					
COPPER	MG/L CU	0.19	0.17		0.67	1.39					
LEAD	MG/L PB	0.21	0.37		0.36	0.49					
MERCURY	MG/L HG	.0008	<.0005		.0067	.0017					
NICKEL	MG/L NI	0.10	0.09		0.47	1.01					
SELENIUM	MG/L SE	< 0.01	< 0.01		0.014	0.007	A				
SILVER	MG/L AG	< 0.02	< 0.02		< 0.02	< 0.02					
ZINC	MG/L ZN	0.68	0.75		22.0	4.52					
ANTIMONY	MG/L SB	0.006	0.008		0.019	0.020					
BERYLLIUM	MG/L BE	< 0.02	< 0.02		<0.004	0.02					
MOLYBDENUM	MG/L MO	< 0.20	< 0.20		< 0.20	0.34					
THALLIUM	MG/L TL	<0.005	<0.005		<0.005	<0.005					
TIN	MG/L SN	< 0.20	< 0.20		< 0.20	0.47					
VANADIUM	MG/L V	0.26	0.19		0.52	1.73					
SOLUBLE ARSENIC	MG/L AS	<0.003	<0.003		<0.003	<0.003					
SOLUBLE BARIUM	MG/L BA	0.06	< 0.02		0.07	0.06					
SOLUBLE ANTIMONY	MG/L SB	<0.003	<0.003		<0.003	<0.003					
SOLUBLE CADMIUM	MG/L CD	< 0.01	< 0.01		<0.005	< 0.01					
SDLUBLE CHRDMIUM	MG/L CR	< 0.02	< 0.02		< 0.02	< 0.02					
SOLUBLE COBALT	MG/L CO	< 0.05	< 0.05		< 0.05	< 0.05					
SOLUBLE COPPER	MG/L CU	0.02	< 0.02		< 0.02	0.01	A				
SOLUBLE LEAD	MG/L PB	< 0.10	< 0.10		< 0.05	0.12					

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METALS						
SOLUBLE MERCURY	MG/L HG	<.0005	<.0005		<.0003	<.0005
SOLUBLE NICKEL	MG/L NI	< 0.05	< 0.05		0.06	0.04 A
SOLUBLE SELENIUM	MG/L SE	< 0.01	< 0.01		<0.005	< 0.01
SOLUBLE BERYLLIUM	MG/L BE	< 0.02	< 0.02		<0.004	< 0.02
SOLUBLE SILVER	MG/L AG	< 0.02	< 0.02		< 0.02	< 0.02
SOLUBLE ZINC	MG/L ZN	0.04	0.04		0.34	0.08
SOLUBLE ALUMINUM	MG/L AL	0.31	0.11		0.71	
SOLUBLE MOLYBDENUM	MG/L MO	< 0.20	< 0.20		< 0.20	< 0.20
SOLUBLE THALLIUM	MG/L TL	<0.005	<0.005		<0.005	<0.005
SOLUBLE TIN	MG/L SN	< 0.20	< 0.20		< 0.20	< 0.20
SOLUBLE VANADIUM	MG/L V	< 0.05	< 0.05		< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
PP'-DDE	UG/L	<0.025	< 0.02		<0.024	< 0.03
PP'-DDD	UG/L	<0.025	< 0.02		<0.024	< 0.03
PP'-DDT	UG/L	<0.025	< 0.02		<0.024	< 0.03
ALPHA-BHC	UG/L	<0.025	< 0.02		<0.024	< 0.03
LINDANE (GAMMA-BHC)	UG/L	<0.025	< 0.02		<0.024	< 0.03
HEPTACHLOR	UG/L	<0.013	< 0.01		<0.012	< 0.02
HEPTACHLOR EPOXIDE	UG/L	<0.013	< 0.01		<0.012	< 0.02
ALDRIN	UG/L	<0.025	< 0.02		<0.024	< 0.03
DIELORIN	UG/L	<0.025	< 0.02		<0.024	< 0.03
ENDRIN	UG/L	<0.025	< 0.01		<0.012	< 0.02
TOXAPHENE	UG/L	<0.625	< 0.6		< 0.6	< 0.8
AROCLOR 1242	UG/L	<0.625	< 0.6		< 0.6	< 0.8
AROCLOR 1254	UG/L	<0.625	< 0.6		< 0.6	< 0.8
BETA-BHC	UG/L	<0.025	< 0.02		<0.024	< 0.03
DELTA-BHC	UG/L	<0.025	< 0.02		<0.024	< 0.03
ENDOSULFAN I	UG/L	<0.025	< 0.02		<0.024	< 0.03
ENDOSULFAN II	UG/L	<0.025	< 0.02		<0.024	< 0.03
ENDOSULFAN SULFATE	UG/L	<0.025	< 0.02		<0.024	< 0.03
ENDRIN ALDEHYDE	UG/L	<0.025	< 0.02		<0.024	< 0.03
AROCLOR 1016	UG/L	<0.625	< 0.6		< 0.6	< 0.8
AROCLOR 1221	UG/L	<0.625	< 0.6		< 0.6	< 0.8
AROCLOR 1232	UG/L	<0.625	< 0.6		< 0.6	< 0.8
AROCLOR 1248	UG/L	<0.625	< 0.6		< 0.6	< 0.8
AROCLOR 1260	UG/L	<0.625	< 0.6		< 0.6	< 0.8
TECHNICAL CHLORDANE	UG/L	< 0.25	< 0.24		< 0.24	< 0.32
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L			< 0.5		

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VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMO-3-CHLOROPROPA	UG/L			< 0.05		
T-1,4-DICHLORO-2-BUTENE	UG/L			< 2		
METHYL IODIDE	UG/L			< 0.5		
METHYLENE BROMIDE	UG/L			< 0.5		
1,1,1,2-TETRACHLOROETHANE	UG/L			< 0.5		
1,2,3-TRICHLOROPROPANE	UG/L			< 0.5		
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 1	< 1	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5		< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLORDETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L			< 10		
O-XYLENE	UG/L			< 0.5		
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1	< 1		< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L			< 50		
FREON 11 (CCL3F)	UG/L			< 1		
1,2-DIBROMOETHANE	UG/L			< 0.05		
ACETONE	UG/L			14		
CIS-1,2-DICHLOROETHYLENE	UG/L			< 0.5		

FOOTNOTES : A-CHECK NOTES TO USER

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SO5 SJ71614 02/04/94	RUN SD5 SJ72287 02/17/94	RUN SD5 SJ85126 11/10/94	RUN SD9 SJ74012 03/24/94	RUN SD9 SJ75304 04/25/94
VOLATILE ORGANIC COMPOUNDS						
2-BUTANONE	UG/L			< 10		
4-METHYL-2-PENTANONE	UG/L			< 10		
STYRENE	UG/L			< 0.5		
M+P-XYLENE	UG/L			< 0.5		
CARBON DISULFIDE	UG/L CS2			< 0.5		
2-HEXANONE	UG/L C6H12O			< 10		
ACID-BASE NEUTRAL EXTRACTABLE						
ACENAPHTHENE	UG/L	< 5	< 5	< 5	< 5	
ACENAPHTHYLENE	UG/L	< 5	< 5	< 5	< 5	
ANTHRACENE	UG/L	< 5	< 5	< 5	< 5	
BENZIDINE	UG/L	< 50	< 50	< 50	< 50	
BENZO(A)ANTHRACENE	UG/L	< 5	< 5	< 5	< 5	
BENZO(A)PYRENE	UG/L	< 5	< 5	< 5	< 5	
BENZO(B)FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	
BENZO(G,H,I,)PERYLENE	UG/L	< 10	< 10	< 10	< 10	
BENZO(K)FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 10	< 10	< 10	< 10	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 10	< 10	< 10	< 10	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 10	< 10	< 10	< 10	
DIETHYLHEXYL PHTHALATE	UG/L	< 20	< 20	< 20	< 20	
4-BROMOPHENYL PHENYLETHER	UG/L	< 5	< 5	< 5	< 5	
BUTYLBENZYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	
2-CHLORONAPHTHALENE	UG/L	< 5	< 5	< 5	< 5	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 5	< 5	< 5	< 5	
CHRYSENE	UG/L	< 5	< 5	< 5	< 5	
DIBENZO(A,H)ANTHRACENE	UG/L	< 10	< 10	< 10	< 10	
1,2-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	
1,3-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	
1,4-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	
3,3'-DICHLOROBENZIDINE	UG/L	< 50	< 50	< 50	< 50	
DIETHYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	
DIMETHYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	
DI-N-BUTYL PHTHALATE	UG/L	< 10	< 10	< 10	< 10	
2,4-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 10	< 10	< 10	< 10	
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	< 10	< 10	< 10	
FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	
FLUORENE	UG/L	< 5	< 5	< 5	< 5	
HEXACHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	< 10	

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD5 SJ71614 02/04/94	RUN SD5 SJ72287 02/17/94	RUN SD5 SJ85126 11/10/94	RUN SD9 SJ74012 03/24/94	RUN SD9 SJ75304 04/25/94
ACID-BASE NEUTRAL EXTRACTABLE						
HEXACHLOROCYCLOPENTADIENE	UG/L	< 10	< 10	< 10	< 10	
HEXACHLOROETHANE	UG/L	< 5	< 5	< 5	< 5	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 10	< 10	< 10	< 10	
ISOPHORONE	UG/L	< 5	< 5	< 5	< 5	
NAPHTHALENE	UG/L	< 5	< 5	< 5	< 5	
NITROBENZENE	UG/L	< 5	< 5	< 5	< 5	
N-NITROSODIMETHYLAMINE	UG/L	< 5	< 5	< 5	< 5	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 5	< 5	< 5	< 5	
PHENANTHRENE	UG/L	< 5	< 5	< 5	< 5	
PYRENE	UG/L	< 5	< 5	< 5	< 5	
2,3,7,8-TCDD	UG/L	< 1	< 1	< 1	< 1	
2-CHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	
1,2,4-TRICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	
2,4-DICHLOROPHENDL	UG/L	< 5	< 5	< 5	< 5	
2,4-DIMETHYLPHENOL	UG/L	< 5	< 5	< 5	< 5	
2,4-DINITROPHENOL	UG/L	< 50	< 50	< 50	< 50	
2-METHYL-4,6DINITROPHENOL	UG/L	< 50	< 50	< 50	< 50	
2-NITROPHENOL	UG/L	< 5	< 5	< 5	< 5	
4-NITROPHENOL	UG/L	< 10	< 10	< 10	< 10	
4-CHLORO-3-METHYLPHENOL	UG/L	< 5	< 5	< 5	< 5	
PENTACHLOROPHENOL	UG/L	< 10	< 10	< 10	< 10	
PHENOL	UG/L	< 5	< 5	< 5	6.6	
2,4,6-TRICHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	
N-NITROSODIPHENYLAMINE	UG/L	< 5	< 5	< 5	< 5	

FOOTNOTES : A-CHECK NOTES TO USER

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WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD10 SJ71616 02/04/94	RUN SD10 SJ72290 02/17/94	RUN SD10 SJ85127 11/10/94	RUN SD11 SJ71617 02/04/94	RUN SD11 SJ72286 02/17/94	RUN SD11 SJ85128 11/10/94
GENERAL							
PH	PH	7.0	7.5	7.4	7.6	7.7	7.6
CONDUCTIVITY	UMHOS/CM	1510	480	874	2360	1560	1340
SUSPENDED SOLIDS	MG/L	348	3930	692	1520	33900	8400
TOTAL DISSOLVED SOLIDS	MG/L	1980	800		2050	1480	
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.1	< 1.0		0.88	1.5	
ORGANIC MATTER							
TOTAL ORGANIC CARBON	MG/L C	270	34	110	20	10	12
OIL & GREASE	MG/L EXTRAC	6.1	11.6	9.50	< 5	< 5	< 5
METALS							
ARSENIC	MG/L AS	0.018	0.028		0.016	0.004	
BARIUM	MG/L BA	0.11	0.87		0.29	5.40	
ALUMINUM	MG/L AL	4.08	96.4		33.8	689	
CADMIUM	MG/L CD	< 0.01	0.02		< 0.01	0.06	
TOTAL CHROMIUM	MG/L CR	< 0.02	0.21		0.07	1.43	
COBALT	MG/L CO	< 0.05	0.10		< 0.05	0.72	
COPPER	MG/L CU	0.07	0.21		0.11	1.59	
LEAD	MG/L PB	< 0.10	< 0.10		< 0.10	0.42	
MERCURY	MG/L HG	<.0005	.0008		<.0005	.0044	
NICKEL	MG/L NI	< 0.05	0.20		< 0.05	1.47	
SELENIUM	MG/L SE	< 0.01	< 0.01		0.017	0.013	
SILVER	MG/L AG	< 0.02	< 0.02		< 0.02	< 0.02	
ZINC	MG/L ZN	0.19	0.73		0.24	4.31	
ANTIMONY	MG/L SB	<0.003	0.006		0.006	<0.003	
BERYLLIUM	MG/L BE	< 0.02	< 0.02		< 0.02	< 0.02	
MOLYBDENUM	MG/L MO	< 0.20	< 0.20		< 0.20	0.51	
THALLIUM	MG/L TL	<0.005	<0.005		<0.005	<0.005	
TIN	MG/L SN	< 0.20	< 0.20		< 0.20	0.60	
VANADIUM	MG/L V	< 0.05	0.31		0.11	2.03	
SOLUBLE ARSENIC	MG/L AS	0.015	0.007		0.004	<0.003	
SOLUBLE BARIUM	MG/L BA	0.08	0.04		0.05	0.04	
SOLUBLE ANTIMONY	MG/L SB	<0.003	<0.003		0.004	<0.003	
SOLUBLE CADMIUM	MG/L CD	< 0.01	< 0.01		< 0.01	< 0.01	
SOLUBLE CHROMIUM	MG/L CR	< 0.02	< 0.02		< 0.02	< 0.02	
SOLUBLE COBALT	MG/L CO	< 0.05	< 0.05		< 0.05	< 0.05	
SOLUBLE COPPER	MG/L CU	0.06	< 0.02		< 0.02	< 0.02	
SOLUBLE LEAD	MG/L PB	< 0.10	< 0.10		< 0.10	< 0.10	

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METALS							
SOLUBLE MERCURY	MG/L HG	<.0005	<.0005		<.0005	<.0005	
SOLUBLE NICKEL	MG/L NI	< 0.05	< 0.05		< 0.05	< 0.05	
SOLUBLE SELENIUM	MG/L SE	< 0.01	< 0.01		0.014	0.008	
SOLUBLE BERYLLIUM	MG/L BE	< 0.02	< 0.02		< 0.02	< 0.02	
SOLUBLE SILVER	MG/L AG	< 0.02	< 0.02		< 0.02	< 0.02	
SOLUBLE ZINC	MG/L ZN	0.17	0.04		0.04	< 0.02	
SOLUBLE ALUMINUM	MG/L AL	0.48	0.20		0.39	0.37	
SOLUBLE MOLYBDENUM	MG/L MO	< 0.20	< 0.20		< 0.20	< 0.20	
SOLUBLE THALLIUM	MG/L TL	<0.005	<0.005		<0.005	<0.005	
SOLUBLE TIN	MG/L SN	< 0.20	< 0.20		< 0.20	< 0.20	
SOLUBLE VANADIUM	MG/L V	< 0.05	< 0.05		< 0.05	< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
PP'-DDE	UG/L	<0.116	< 0.03		<0.022	< 0.03	
PP'-DDD	UG/L	<0.116	< 0.03		<0.022	< 0.03	
PP'-DDT	UG/L	<0.116	< 0.03		<0.022	< 0.03	
ALPHA-BHC	UG/L	<0.116	< 0.03		<0.022	< 0.03	
LINDANE (GAMMA-BHC)	UG/L	<0.116	< 0.03		<0.022	< 0.03	
HEPTACHLOR	UG/L	<0.058	< 0.01		<0.011	< 0.02	
HEPTACHLOR EPOXIDE	UG/L	<0.058	< 0.01		<0.011	< 0.02	
ALDRIN	UG/L	<0.116	< 0.03		<0.022	< 0.03	
DIELDRIN	UG/L	<0.116	< 0.03		<0.022	< 0.03	
ENDRIN	UG/L	<0.058	< 0.01		<0.011	< 0.02	
TOXAPHENE	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
AROCLOR 1242	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
AROCLOR 1254	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
BETA-BHC	UG/L	<0.116	< 0.03		<0.022	< 0.03	
DELTA-BHC	UG/L	<0.116	< 0.03		<0.022	< 0.03	
ENDOSULFAN I	UG/L	<0.116	< 0.03		<0.022	< 0.03	
ENDOSULFAN II	UG/L	<0.116	< 0.03		<0.022	< 0.03	
ENDOSULFAN SULFATE	UG/L	<0.116	< 0.03		<0.022	< 0.03	
ENDRIN ALDEHYDE	UG/L	<0.116	< 0.03		<0.022	< 0.03	
AROCLOR 1016	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
AROCLOR 1221	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
AROCLOR 1232	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
AROCLOR 1248	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
AROCLOR 1260	UG/L	< 2.9	< 0.65		<0.556	< 0.75	
TECHNICAL CHLORDANE	UG/L	< 1.16	< 0.26		<0.222	< 0.3	
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L			< 0.5			< 0.5

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VOLATILE ORGANIC COMPOUNDS							
1,2-DIBROMO-3-CHLOROPROPA	UG/L			< 0.05			< 0.05
T-1,4-DICHLORO-2-BUTENE	UG/L			< 2			< 2
METHYL IODIDE	UG/L			< 0.5			< 0.5
METHYLENE BROMIDE	UG/L			< 0.5			< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L			< 0.5			< 0.5
1,2,3-TRICHLOROPROPANE	UG/L			< 0.5			< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 1	< 1	< 0.5	< 1	< 1	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5		< 0.5	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L			< 10			< 10
O-XYLENE	UG/L			< 0.5			< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1	< 1		< 1	< 1	
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L			< 50			< 50
FREON 11 (CCL3F)	UG/L			< 1			< 1
1,2-DIBROMOETHANE	UG/L			< 0.05			< 0.05
ACETONE	UG/L			< 10			< 10
CIS-1,2-DICHLOROETHYLENE	UG/L			< 0.5			< 0.5

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VOLATILE ORGANIC COMPOUNDS							
2-BUTANONE	UG/L			< 10			< 10
4-METHYL-2-PENTANONE	UG/L			< 10			< 10
STYRENE	UG/L			< 0.5			< 0.5
M+P-XYLENE	UG/L			< 0.5			< 0.5
CARBON DISULFIDE	UG/L CS2			< 0.5			< 0.5
2-HEXANONE	UG/L C6H12O			< 10			< 10
ACID-BASE NEUTRAL EXTRACTABLE							
ACENAPHTHENE	UG/L	< 12.5	< 5		< 5	< 5	
ACENAPHTHYLENE	UG/L	< 12.5	< 5		< 5	< 5	
ANTHRACENE	UG/L	< 12.5	< 5		< 5	< 5	
BENZIDINE	UG/L	< 125	< 50		< 50	< 50	
BENZO(A)ANTHRACENE	UG/L	< 12.5	< 5		< 5	< 5	
BENZO(A)PYRENE	UG/L	< 12.5	< 5		< 5	< 5	
BENZO(B)FLUORANTHENE	UG/L	< 12.5	< 5		< 5	< 5	
BENZO(G,H,I,)PERYLENE	UG/L	< 25	< 10		< 10	< 10	
BENZO(K)FLUORANTHENE	UG/L	< 12.5	< 5		< 5	< 5	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 25	< 10		< 10	< 10	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 25	< 10		< 10	< 10	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 25	< 10		< 10	< 10	
DIETHYLHEXYL PHTHALATE	UG/L	< 50	< 20		< 20	< 20	
4-BROMOPHENYL PHENYLETHER	UG/L	< 12.5	< 5		< 5	< 5	
BUTYLBENZYL PHTHALATE	UG/L	< 12.5	< 5		< 5	< 5	
2-CHLORDNAPHTHALENE	UG/L	< 12.5	< 5		< 5	< 5	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 12.5	< 5		< 5	< 5	
CHRYSENE	UG/L	< 12.5	< 5		< 5	< 5	
DIBENZO(A,H)ANTHRACENE	UG/L	< 25	< 10		< 10	< 10	
1,2-DICHLDROBENZENE	UG/L	< 12.5	< 5		< 5	< 5	
1,3-DICHLOROBENZENE	UG/L	< 12.5	< 5		< 5	< 5	
1,4-DICHLOROBENZENE	UG/L	< 12.5	< 5		< 5	< 5	
3,3'-DICHLOROBENZIDINE	UG/L	< 125	< 50		< 50	< 50	
DIETHYL PHTHALATE	UG/L	< 12.5	< 5		< 5	< 5	
DIMETHYL PHTHALATE	UG/L	< 12.5	< 5		< 5	< 5	
DI-N-BUTYL PHTHALATE	UG/L	< 25	< 10		< 10	< 10	
2,4-DINITROTOLUENE	UG/L	< 12.5	< 5		< 5	< 5	
2,6-DINITROTOLUENE	UG/L	< 12.5	< 5		< 5	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 25	< 10		< 10	< 10	
1,2-DIPHENYLHYORAZINE	UG/L	< 25	< 10		< 10	< 10	
FLUORANTHENE	UG/L	< 12.5	< 5		< 5	< 5	
FLUORENE	UG/L	< 12.5	< 5		< 5	< 5	
HEXACHLOROBENZENE	UG/L	< 12.5	< 5		< 5	< 5	
HEXACHLOROBUTADIENE	UG/L	< 25	< 10		< 10	< 10	

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD10 SJ71618 02/04/94	RUN SD10 SJ72290 02/17/94	RUN SD10 SJ85127 11/10/94	RUN SD11 SJ71617 02/04/94	RUN SD11 SJ72286 02/17/94	RUN SD11 SJ85128 11/10/94
ACID-BASE NEUTRAL EXTRACTABLE							
HEXACHLOROCYCLOPENTADIENE	UG/L	< 25	< 10		< 10	< 10	
HEXACHLOROETHANE	UG/L	< 12.5	< 5		< 5	< 5	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 25	< 10		< 10	< 10	
ISOPHORONE	UG/L	< 12.5	< 5		< 5	< 5	
NAPHTHALENE	UG/L	< 12.5	< 5		< 5	< 5	
NITROBENZENE	UG/L	< 12.5	< 5		< 5	< 5	
N-NITROSODIMETHYLAMINE	UG/L	< 12.5	< 5		< 5	< 5	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 12.5	< 5		< 5	< 5	
PHENANTHRENE	UG/L	< 12.5	< 5		< 5	< 5	
PYRENE	UG/L	< 12.5	< 5		< 5	< 5	
2,3,7,8-TCDD	UG/L	< 1	< 1		< 1	< 1	
2-CHLOROPHENOL	UG/L	< 12.5	< 5		< 5	< 5	
1,2,4-TRICHLOROBENZENE	UG/L	< 12.5	< 5		< 5	< 5	
2,4-DICHLOROPHENOL	UG/L	< 12.5	< 5		< 5	< 5	
2,4-DIMETHYLPHENOL	UG/L	< 12.5	< 5		< 5	< 5	
2,4-DINITROPHENOL	UG/L	< 125	< 50		< 50	< 50	
2-METHYL-4,6DINITROPHENOL	UG/L	< 125	< 50		< 50	< 50	
2-NITROPHENOL	UG/L	< 12.5	< 5		< 5	< 5	
4-NITROPHENOL	UG/L	< 25	< 10		< 10	< 10	
4-CHLORO-3-METHYLPHENOL	UG/L	< 12.5	< 5		< 5	< 5	
PENTACHLOROPHENOL	UG/L	< 25	< 10		< 10	< 10	
PHENOL	UG/L	< 12.5	< 5		< 5	< 5	
2,4,6-TRICHLOROPHENOL	UG/L	< 12.5	< 5		< 5	< 5	
N-NITROSODIPHENYLAMINE	UG/L	< 12.5	< 5		< 5	< 5	

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ71618 02/04/94	RUN EQIP SJ71691 02/07/94	RUN EQIP SJ72292 02/17/94	RUN EQIP SJ74013 03/24/94	RUN EQIP SJ75305 04/25/94	RUN EQIP SJ85130 11/10/94	RUN SDB SJ71615 02/04/94	RUN SDB SJ72289 02/17/94	RUN SDB SJ85129 11/10/94
GENERAL										
PH	PH	5.7	5.3	6.1	6.1	5.5	7.7	7.0	8.2	7.5
CONDUCTIVITY	UMHOS/CM	2.6	3.2	25.5	1.81	4.90	2.1	1390	220	902
SUSPENDED SOLIDS	MG/L	< 4	9.00	< 4	< 4	9	11.0	79	7750	1760
TOTAL DISSOLVED SOLIDS	MG/L	13	< 10	< 10	< 10	< 10	< 10	1530	630	850
TOTAL HARDNESS	MG/L CACO3						< 5.0			480
TOTAL CYANIDE	MG/L CN						< 0.02			< 0.02
BORON	MG/L B						< 0.50			< 0.50
ANIONS										
NITRATE NITROGEN	MG/L N	< 0.1	< 0.1	< 1.0	< 0.03	0.10	0.04	< 0.1	< 1.0	1.1
SULFATE	MG/L SO4						< 1.0			246
CHLORIDE	MG/L CL						< 1.0			59.0
TOTAL ALKALINITY	MG/L CACO3						< 10			160
BICARBONATE ALKALINITY	MG/L CACO3						< 10			160
TOTAL SULFIDE	MG/L S						< 0.1			< 0.1
FLUORIDE	MG/L F						B			B
CATIONS										
CALCIUM-HARDNESS	MG/L CACO3									
MAGNESIUM-HARDNESS	MG/L CACO3									
SODIUM	MG/L NA									57.4
POTASSIUM	MG/L K						0.73			45.4
IRON	MG/L FE									17.7
MANGANESE	MG/L MN									0.92
SOLUBLE IRON	MG/L FE						< 0.10			3.81
ORGANIC MATTER										
AMMONIA NITROGEN	MG/L N						< 0.05			2.5
TOTAL BOD	MG/L O						< 7			190
SOLUBLE BOD	MG/L O						< 7			150
TOTAL COD	MG/L O						< 10			715
SOLUBLE COD	MG/L O						< 10			424
TOTAL ORGANIC CARBON	MG/L C	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	400	9.4	150
OIL & GREASE	MG/L EXTRAC	< 5	5.0	< 5	< 5	9.0	< 5	11.3	8.0	13.3
TOTAL ORGANIC HALOGEN(TOX	UG/L						0.01			0.03
METALS										
ARSENIC	MG/L AS	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	0.018	0.073	0.008
BARIUM	MG/L BA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		0.08	2.25	0.11

FOOTNOTES : A-CHECK NOTES TO USER B-CONSTIT NOT ANALYZE C-VALUE >MDL, <RL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ71618 02/04/94	RUN EQIP SJ71691 02/07/94	RUN EQIP SJ72292 02/17/94	RUN EQIP SJ74013 03/24/94	RUN EQIP SJ75305 04/25/94	RUN EQIP SJ85130 11/10/94	RUN SDB SJ71615 02/04/94	RUN SDB SJ72289 02/17/94	RUN SDB SJ85129 11/10/94
METALS										
ALUMINUM	MG/L AL	< 0.10	< 0.10	0.23	0.20			1.31	265	
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005	< 0.01	< 0.01	< 0.01	0.02	< 0.01
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02	0.02		< 0.02	0.64	0.04
COBALT	MG/L CO	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.25	0.03 C
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.08	0.49	0.08
LEAD	MG/L PB	< 0.10	< 0.10	< 0.10	< 0.05	0.11	< 0.20	< 0.10	< 0.10	0.08
MERCURY	MG/L HG	<.0005	<.0005	<.0005	<.0003	<.0005	<.0005	<.0005	.0015	<.0005
NICKEL	MG/L NI	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	0.56	0.05
SELENIUM	MG/L SE	< 0.01	< 0.01	< 0.01	<0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SILVER	MG/L AG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02
ZINC	MG/L ZN	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		0.12	1.56	0.28
ANTIMONY	MG/L SB	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.007	<0.003
BERYLLIUM	MG/L BE	< 0.02	< 0.02	< 0.02	<0.004	< 0.02	<0.001	< 0.02	< 0.02	.0027
MOLYBDENUM	MG/L MO	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	0.24	
THALLIUM	MG/L TL	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005	<0.003
TIN	MG/L SN	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.05	< 0.20	< 0.20	< 0.05
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05,	0.84	0.05
SOLUBLE ARSENIC	MG/L AS	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.018	<0.003	0.004
SOLUBLE BARIUM	MG/L BA	< 0.02	< 0.02	< 0.02	< 0.02	0.01 A	< 0.02	0.07	0.03	0.05
SOLUBLE ANTIMONY	MG/L SB	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
SOLUBLE CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	<0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SOLUBLE CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SOLUBLE COBALT	MG/L CD	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SOLUBLE COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.12	< 0.02	< 0.02
SOLUBLE LEAD	MG/L PB	< 0.10	< 0.10	< 0.10	< 0.05	0.08 A	< 0.1	< 0.10	< 0.10	< 0.1
SOLUBLE MANGANESE	MG/L MN						< 0.02			0.56
SOLUBLE MERCURY	MG/L HG	<.0005	<.0005	<.0005	<.0003	<.0005	<.0005	<.0005	<.0005	<.0005
SOLUBLE NICKEL	MG/L NI	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SOLUBLE SELENIUM	MG/L SE	< 0.01	< 0.01	< 0.01	<0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SOLUBLE BERYLLIUM	MG/L BE	< 0.02	< 0.02	< 0.02	<0.004	< 0.02	<0.001	< 0.02	< 0.02	<0.001
SOLUBLE SILVER	MG/L AG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SOLUBLE ZINC	MG/L ZN	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	0.21	0.04	< 0.02
SOLUBLE ALUMINUM	MG/L AL	< 0.10	< 0.10	< 0.10	< 0.10			0.52	0.14	
SOLUBLE MOLYBDENUM	MG/L MO	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	
SOLUBLE THALLIUM	MG/L TL	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005	<0.003
SOLUBLE TIN	MG/L SN	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.05	< 0.20	< 0.20	< 0.05
SOLUBLE VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS										
PP'-DDE	UG/L	<0.027	<0.027	< 0.02	<0.028	< 0.03		<0.148	< 0.02	
PP'-DDD	UG/L	<0.027	<0.027	< 0.02	<0.028	< 0.03		<0.148	< 0.02	
PP'-DDT	UG/L	<0.027	<0.027	< 0.02	<0.028	< 0.03		<0.148	< 0.02	

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COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ71618 02/04/94	RUN EQIP SJ71691 02/07/94	RUN EQIP SJ72292 02/17/94	RUN EQIP SJ74013 03/24/94	RUN EQIP SJ75305 04/25/94	RUN EQIP SJ85130 11/10/94	RUN SDB SJ71615 02/04/94	RUN SDB SJ72289 02/17/94	RUN SDB SJ85129 11/10/94
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS										
ALPHA-BHC	UG/L	<0.027	<0.027	< 0.02	<0.028	< 0.03		<0.148	< 0.02	
LINDANE (GAMMA-BHC)	UG/L	<0.027	<0.027	< 0.02	<0.028	< 0.03		<0.148	< 0.02	
HEPTACHLOR	UG/L	<0.014	<0.014	< 0.01	<0.014	< 0.01		<0.074	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	<0.014	<0.014	< 0.01	<0.014	< 0.01		<0.074	< 0.01	
ALDRIN	UG/L	<0.027	<0.027	< 0.02	<0.028	< 0.03		<0.148	< 0.02	
DIELDRIN	UG/L	<0.027	<0.027	< 0.02	<0.028	< 0.03		<0.148	< 0.02	
ENDRIN	UG/L	<0.014	<0.014	< 0.01	<0.014	< 0.01		<0.074	< 0.01	
TOXAPHENE	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
AROCLOR 1242	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
AROCLOR 1254	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
BETA-BHC	UG/L	<0.027	<0.027	< 0.02	<0.024	< 0.03		<0.148	< 0.02	
DELTA-BHC	UG/L	<0.027	<0.027	< 0.02	<0.024	< 0.03		<0.148	< 0.02	
ENDOSULFAN I	UG/L	<0.027	<0.027	< 0.02	<0.024	< 0.03		<0.148	< 0.02	
ENDDSULFAN II	UG/L	<0.027	<0.027	< 0.02	<0.024	< 0.03		<0.148	< 0.02	
ENDOSULFAN SULFATE	UG/L	<0.027	<0.027	< 0.02	<0.024	< 0.03		<0.148	< 0.02	
ENDRIN ALDEHYDE	UG/L	<0.027	<0.027	< 0.02	<0.024	< 0.03		<0.148	< 0.02	
AROCLOR 1016	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
AROCLOR 1221	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
AROCLOR 1232	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
AROCLOR 1248	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
AROCLOR 1260	UG/L	<0.685	<0.685	< 0.6	< 0.7	< 0.7		< 3.7	< 0.6	
TECHNICAL CHLORDANE	UG/L	<0.274	<0.274	< 0.24	< 0.28	< 0.28		< 1.48	< 0.24	
VOLATILE ORGANIC COMPOUNDS										
BROMOCHLOROMETHANE	UG/L						< 0.5			< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L						< 0.05			< 0.05
T-1,4-DICHLORO-2-BUTENE	UG/L						< 2			< 2
METHYL IODIDE	UG/L						< 0.5			< 0.5
METHYLENE BROMIDE	UG/L						< 0.5			< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L						< 0.5			< 0.5
1,2,3-TRICHLOROPROPANE	UG/L						< 0.5			< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLDROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ71618 02/04/94	RUN EQIP SJ71691 02/07/94	RUN EQIP SJ72292 02/17/94	RUN EQIP SJ74013 03/24/94	RUN EQIP SJ75305 04/25/94	RUN EQIP SJ85130 11/10/94	RUN SDB SJ71615 02/04/94	RUN SDB SJ72289 02/17/94	RUN SDB SJ85129 11/10/94
VOLATILE ORGANIC COMPOUNDS										
VINYL CHLORIDE	UG/L	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L						< 10			< 10
O-XYLENE	UG/L						< 0.5			< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L						< 50			< 50
FREON 11 (CCL3F)	UG/L						< 1			< 1
1,2-DIBROMOETHANE	UG/L						< 0.05			< 0.05
ACETONE	UG/L						< 10			11
CIS-1,2-DICHLOROETHYLENE	UG/L						< 0.5			< 0.5
2-BUTANONE	UG/L						< 10			< 10
4-METHYL-2-PENTANONE	UG/L						< 10			< 10
STYRENE	UG/L						< 0.5			< 0.5
M+P-XYLENE	UG/L						< 0.5			< 0.5
CARBON DISULFIDE	UG/L CS2						< 0.5			< 0.5
2-HEXANONE	UG/L C6H120						< 10			< 10
ACID-BASE NEUTRAL EXTRACTABLE										
ACENAPHTHENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
ACENAPHTHYLENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
ANTHRACENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
BENZIDINE	UG/L	< 50	< 50	< 50	< 50	< 50		< 250	< 50	
BENZO(A)ANTHRACENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
BENZO(A)PYRENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
BENZO(B)FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
BENZO(G.H.I.)PERYLENE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	

FOOTNOTES : A-CHECK NOTES TO USER B-CONSTIT NOT ANALYZE C-VALUE >MDL, <RL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ71618 02/04/94	RUN EQIP SJ71691 02/07/94	RUN EQIP SJ72292 02/17/94	RUN EQIP SJ74013 03/24/94	RUN EQIP SJ75305 04/25/94	RUN EQIP SJ85130 11/10/94	RUN SOB SJ71615 02/04/94	RUN SOB SJ72289 02/17/94	RUN SDB SJ85129 11/10/94
ACID-BASE NEUTRAL EXTRACTABLE										
BENZO(K)FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
DIETHYLHEXYL PHTHALATE	UG/L	< 20	< 20	< 20	< 20	< 20		< 100	< 20	
4-BROMOPHENYL PHENYLETHER	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
BUTYLBENZYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
2-CHLORONAPHTHALENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
CHRYSENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
DIBENZO(A,H)ANTHRACENE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
1,2-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
1,3-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
1,4-DICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
3,3'-DICHLOROBENZIOINE	UG/L	< 50	< 50	< 50	< 50	< 50		< 250	< 50	
DIETHYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
DIMETHYL PHTHALATE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
DI-N-BUTYL PHTHALATE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
2,4-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
2,6-DINITROTOLUENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
DI-N-OCTYL PHTHALATE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
1,2-DIPHENYLHYDRAZINE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
FLUORANTHENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
FLUORENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
HEXACHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
HEXACHLOROBUTADIENE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
HEXACHLOROCYCLOPENTAOIENE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
HEXACHLOROETHANE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
ISOPHORONE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
NAPHTHALENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
NITROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
N-NITROSODIMETHYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
PHENANTHRENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
PYRENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
2,3,7,8-TCDD	UG/L	< 1	< 1	< 1	< 1	< 1		< 1	< 1	
2-CHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
1,2,4-TRICHLOROBENZENE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
2,4-DICHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
2,4-DIMETHYLPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
2,4-DINITROPHENOL	UG/L	< 50	< 50	< 50	< 50	< 50		< 250	< 50	
2-METHYL-4,6DINITROPHENOL	UG/L	< 50	< 50	< 50	< 50	< 50		< 250	< 50	

FOOTNOTES : A-CHECK NOTES TO USER B-CONSTIT NOT ANALYZE C-VALUE >MOL, <RL

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ71616 02/04/94	RUN EQIP SJ71691 02/07/94	RUN EQIP SJ72292 02/17/94	RUN EQIP SJ74013 03/24/94	RUN EQIP SJ75305 04/25/94	RUN EQIP SJ85130 11/10/94	RUN SOB SJ71615 02/04/94	RUN SOB SJ72289 02/17/94	RUN SDB SJ85129 11/10/94
ACID-BASE NEUTRAL EXTRACTABLE										
2-NITROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
4-NITROPHENOL	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
4-CHLORO-3-METHYLPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
PENTACHLOROPHENOL	UG/L	< 10	< 10	< 10	< 10	< 10		< 50	< 10	
PHENOL	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
2,4,6-TRICHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	
N-NITROSODIPHENYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5		< 25	< 5	

FOOTNOTES : A-CHECK NOTES TO USER B-CONSTIT NOT ANALYZE C-VALUE >MDL, <RL

APPENDIX A.9

QUALITY ASSURANCE/QUALITY CONTROL DATA

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ70543 01/12/94	BLNK TRIP SJ70828 01/19/94	BLNK TRIP SJ71328 01/28/94	BLNK TRIP SJ71619 02/04/94	BLNK TRIP SJ71892 02/07/94	BLNK TRIP SJ71986 02/11/94	BLNK TRIP SJ72720 02/25/94	BLNK TRIP SJ72990 03/04/94	BLNK TRIP SJ73343 03/11/94	BLNK TRIP SJ73456 03/15/94
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	4.5 A	< 1.0	< 1.0	< 3	< 3	1.3 A	1.6 A	2.7 A	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	0.4 A	< 0.3	< 0.3	0.7	0.6	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
VINYL ACETATE	UG/L		< 1.0								
O-XYLENE	UG/L		< 0.5								
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L									< 2.5	< 2.5
ACRYLONITRILE	UG/L									< 1.0	< 1.0
ACETONE	UG/L									< 5.0	< 5.0
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.3		< 0.3			< 0.3	< 0.3			< 0.3
2-BUTANONE	UG/L									< 1.0	< 1.0
M+P-XYLENE	UG/L		< 0.5								

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ73701 03/18/94	BLNK TRIP SJ73732 03/21/94	BLNK TRIP SJ73840 03/22/94	BLNK TRIP SJ73929 03/23/94	BLNK TRIP SJ73979 03/24/94	BLNK TRIP SJ74073 03/25/94	BLNK TRIP SJ74079 03/25/94	BLNK TRIP SJ74722 04/08/94	BLNK TRIP SJ75272 04/22/94	BLNK TRIP SJ75533 04/29/94
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
VINYL ACETATE	UG/L									< 5.0	
O-XYLENE	UG/L									< 0.5	
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L		< 2.5	B	< 2.5	B		< 2.5			
ACRYLONITRILE	UG/L		< 1.0	B	< 1.0	B		< 1.0			
ACETONE	UG/L		< 5.0	B	< 5.0	B		< 5.0			
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.3								
2-BUTANONE	UG/L		< 1.0	B	< 1.0	B		< 1.0			
M+P-XYLENE	UG/L									< 0.5	

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ75940 05/06/94	BLNK TRIP SJ76823 05/20/94	BLNK TRIP SJ77007 05/27/94	BLNK TRIP SJ77164 06/03/94	BLNK TRIP SJ77498 06/09/94	BLNK TRIP SJ77855 06/17/94	BLNK TRIP SJ77863 06/17/94	BLNK TRIP SJ77867 06/17/94	BLNK TRIP SJ78049 06/22/94	BLNK TRIP SJ78119 06/23/94
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	3.6 A	7.8 A	1.3 A	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
VINYL ACETATE	UG/L			< 5.0							
O-XYLENE	UG/L			< 0.5							
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L				< 2.5	< 2.5			< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L				< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
ACETONE	UG/L				< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
2-BUTANONE	UG/L				< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
M+P-XYLENE	UG/L			< 0.5							

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ78180 06/24/94	BLNK TRIP SJ78187 06/24/94	BLNK TRIP SJ78258 06/27/94	BLNK TRIP SJ78317 06/28/94	BLNK TRIP SJ79052 07/15/94	BLNK TRIP SJ79339 07/22/94	BLNK TRIP SJ79429 07/25/94	BLNK TRIP SJ79588 07/27/94	BLNK TRIP SJ79713 07/29/94	BLNK TRIP SJ79971 08/05/94
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLDROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
VINYL ACETATE	UG/L		< 1.0				< 1.0				
O-XYLENE	UG/L		< 0.5				< 0.5				
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BRDMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 2.5		< 2.5	< 2.5						
ACRYLONITRILE	UG/L	< 1.0		< 1.0	< 1.0						
ACETONE	UG/L	< 5.0		< 5.0	< 5.0						
2-BUTANONE	UG/L	< 1.0		< 1.0	< 1.0						
M+P-XYLENE	UG/L		< 0.5				< 0.5				

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ80522 08/19/94	BLNK TRIP SJ81021 08/31/94	BLNK TRIP SJ81379 09/08/94	BLNK TRIP SJ81432 09/09/94	BLNK TRIP SJ81916 09/21/94	BLNK TRIP SJ82058 09/23/94	BLNK TRIP SJ82069 09/23/94	BLNK TRIP SJ82124 09/26/94	BLNK TRIP SJ82155 09/27/94	BLNK TRIP SJ82273 09/28/94
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
VINYL ACETATE	UG/L		< 5.0	< 1.0							
O-XYLENE	UG/L		< 0.5	< 0.5							
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L				< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
ACRYLONITRILE	UG/L				< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
ACETONE	UG/L				5.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-BUTANONE	UG/L				1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
M+P-XYLENE	UG/L		< 0.5	< 0.5							

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ82555 10/05/94	BLNK TRIP SJ82718 10/06/94	BLNK TRIP SJ82725 10/07/94	BLNK TRIP SJ82981 10/14/94	BLNK TRIP SJ83706 10/28/94	BLNK TRIP SJ85210 11/11/94	BLNK TRIP SJ85624 11/23/94	BLNK TRIP SJ85894 12/01/94	BLNK TRIP SJ85932 12/02/94	BLNK TRIP SJ86005 12/05/94
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L				< 10						
BROMOCHLOROMETHANE	UG/L				< 0.5				< 0.5		< 0.5
CHLOROPRENE	UG/L				< 100						
1,2-DIBROMO-3-CHLOROPROPA	UG/L				< 0.01				< 0.01		< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L				< 2				< 2		< 2
1,3-DICHLOROPROPANE	UG/L				< 0.5						
2,2-DICHLOROPROPANE	UG/L				< 0.5						
1,1-DICHLOROPROPENE	UG/L				< 0.5						
ISOBUTYL ALCOHOL	UG/L				< 100						
METHACRYLONITRILE	UG/L				< 10						
METHYL IODIDE	UG/L				< 0.5				< 0.5		< 0.5
METHYLENE BROMIDE	UG/L				< 0.5				< 0.5		< 0.5
PROPIONITRILE	UG/L				< 20						
1,1,1,2-TETRACHLOROETHANE	UG/L				< 0.5				< 0.5		< 0.5
1,2,3-TRICHLOROPROPANE	UG/L				< 0.5				< 0.5		< 0.5
METHYL METHACRYLATE	UG/L				< 10						
ETHYL METHACRYLATE	UG/L				< 10						
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1.0	< 3	< 1.0	< 1.0	< 1.0	< 3	< 1.0	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
TOLUENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
ETHYL BENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
VINYL ACETATE	UG/L				< 10				< 10		< 10
O-XYLENE	UG/L				< 0.5				< 0.5		< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.3	< 0.5
BROMOMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 1
CHLOROETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 1

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ82555 10/05/94	BLNK TRIP SJ82716 10/06/94	BLNK TRIP SJ82725 10/07/94	BLNK TRIP SJ82981 10/14/94	BLNK TRIP SJ83706 10/28/94	BLNK TRIP SJ85210 11/11/94	BLNK TRIP SJ85624 11/23/94	BLNK TRIP SJ85894 12/01/94	BLNK TRIP SJ85932 12/02/94	BLNK TRIP SJ86005 12/05/94
VOLATILE ORGANIC COMPOUNDS											
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0		< 1.0	
CHLOROMETHANE	UG/L	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 2.5	< 2.5	< 1	< 2.5	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L				< 200						
ACRYLONITRILE	UG/L				< 50				< 50		< 50
ACETONITRILE	UG/L				< 100						
FREON 12 (CCL2F2)	UG/L				< 0.5						
FREON 11 (CCL3F)	UG/L				< 1				< 1		< 1
1,2-DIBROMOETHANE	UG/L				< 0.01				< 0.01		< 0.01
ACETONE	UG/L				< 10				< 10		< 10
CIS-1,2-DICHLOROETHYLENE	UG/L				< 0.5				< 0.5		< 0.5
2-BUTANONE	UG/L				< 10				< 10		< 10
4-METHYL-2-PENTANONE	UG/L				< 10				< 10		< 10
STYRENE	UG/L				< 0.5				< 0.5		< 0.5
M+P-XYLENE	UG/L				< 0.5				< 0.5		< 0.5
CARBON DISULFIDE	UG/L CS2				< 0.5				< 0.5		0.6
2-HEXANONE	UG/L C6H12O				< 10				< 10		< 10

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ86020 12/06/94	BLNK TRIP SJ86368 12/12/94	BLNK TRIP SJ86504 12/16/94	BLNK TRIP SJ86617 12/20/94	BLNK TRIP SJ86864 12/29/94	BLNK TRIP SJ86899 12/30/94
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 0.5				< 0.5	< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01				< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2				< 2	< 2
METHYL IODIDE	UG/L	< 0.5				< 0.5	< 0.5
METHYLENE BROMIDE	UG/L	< 0.5				< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5				< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5				< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 1.0	< 1.0	< 1.0	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLORDETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L		< 0.5	< 0.5	< 0.5		
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
VINYL ACETATE	UG/L	< 10	< 5.0			< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5			< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 2.5	< 2.5	< 2.5	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 2.5	< 2.5	< 2.5	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1.0	< 1.0	< 1.0		
CHLOROMETHANE	UG/L	< 1	< 2.5	< 2.5	< 2.5	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLDROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 50				< 50	< 50
FREON 11 (CCL3F)	UG/L	< 1				< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01				< 0.01	< 0.01
ACETONE	UG/L	< 10				< 10	< 10

FOOTNOTES : A-CHECK NOTES TO USER B-INSUFFICIENT SAMPLE

1995 Annual Water Quality Monitoring Report

WASTEWATER RECLAMATION
SOLID WASTE MANAGEMENT

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (310) 699-7411, FAX: (310) 695-6139

CHARLES W. CARRY
Chief Engineer and General Manager

May 31, 1996
File No. 31R-102.10B

Mr. Rodney Nelson
Head, Landfill Unit
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA. 91754-2156

Dear Mr. Nelson:

Puente Hills Landfill
1995 Water Quality Monitoring Annual Report
Order Nos. 93-062, 90-046, and 93-070
File No. 57-220, C.I. Nos. 2294 and 7336

Enclosed please find ***1995 Water Quality Monitoring Annual Report for the Puente Hills Landfill.*** If you have any questions regarding this report, please contact Dr. Chi-Chung Tang of this office.

I certify that all wastes deposited at the Puente Hills Landfill during 1995 were deposited in compliance with the requirements of the Los Angeles Regional Water Quality Control Board (RWQCB), and that no wastes were deposited outside of the boundaries of the waste management area as specified in the RWQCB's requirements. In addition, I certify that the Sanitation Districts have complied with all monitoring and reporting requirements which apply to the Puente Hills Landfill, pursuant to Order Nos. 93-062, 90-046, and 93-070; and Monitoring and Reporting Programs 2294 and 7336. All laboratory analyses performed as part of the required water quality monitoring program were conducted at laboratories certified for such analyses, and in accordance with current guideline procedures contained in SW-846 and approved by USEPA.

I declare, under penalty of perjury, that to the best of my knowledge the foregoing statements are true, complete, and correct. Executed on the 31st day of MAY, 1996, at Whittier, California.

Very truly yours,

Charles W. Carry

Thomas J. Le Brun

Thomas J. Le Brun
Division Engineer
Solid Waste Management Department

TJL:CJH:leh
Enclosures

1995 WATER QUALITY MONITORING ANNUAL REPORT FOR THE PUENTE HILLS LANDFILL

VOLUME 1

PREPARED BY

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
1955 WORKMAN MILL ROAD
WHITTIER, CALIFORNIA

MAY, 1996

TABLE OF CONTENTS

LISTS OF TABLES, FIGURES, EXHIBITS, AND APPENDICES

1995 WATER QUALITY MONITORING ANNUAL REPORT FOR THE PUENTE HILLS LANDFILL

1.0 INTRODUCTION

The County Sanitation Districts of Los Angeles County (Sanitation Districts) own and operate the Puente Hills Landfill as a Class III municipal solid waste disposal facility. The site is located in unincorporated Los Angeles County, southeast of the intersection of the Pomona (SR-60) and San Gabriel River (I-605) freeways, as depicted in Exhibit 1. The site address is 2800 Workman Mill Road, Whittier, California. As shown in Exhibit 2, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons.

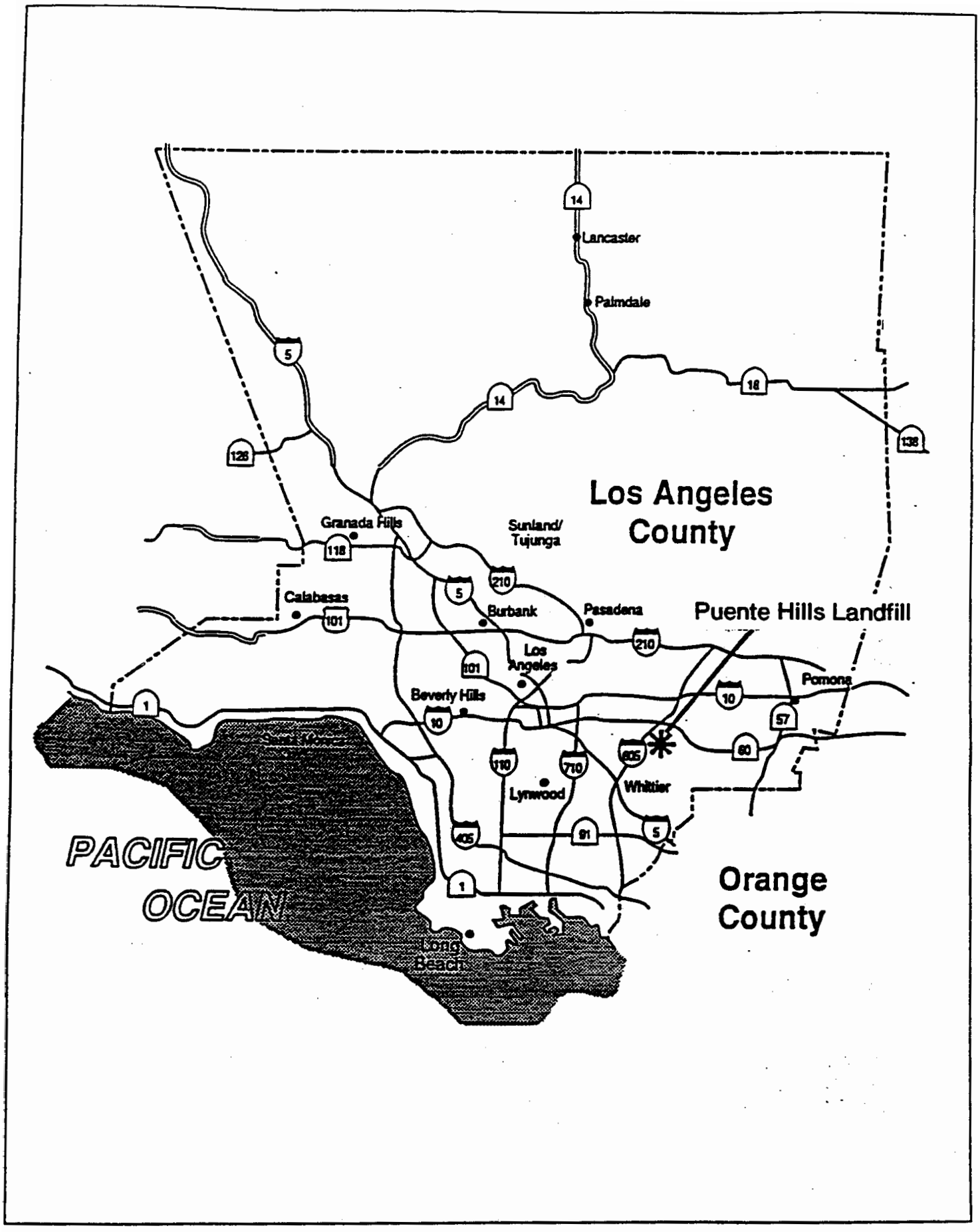
The Sanitation Districts operate the Puente Hills Landfill in accordance with permits, Waste Discharge Requirements (WDRs) and Monitoring and Reporting Programs (MRPs), issued by the Regional Water Quality Control Board, Los Angeles Region (RWQCB). The Puente Hills Landfill is currently subject to the following WDRs: (1) Order No. 93-062 which applies to all municipal solid waste disposal sites in the Los Angeles Region; (2) Order Nos. 90-046 and 91-035 which apply to the Main Canyon and Canyon 9 of the Puente Hills Landfill; and (3) Order Nos. 93-070 and 94-103 which apply to the Eastern Canyons expansion area of the Puente Hills Landfill. Groundwater monitoring requirements are specified in MRP No. 2294 for the Main Canyon and Canyon 9, most recently revised on November 1, 1993; and MRP No. 7336 for the Eastern Canyon expansion area issued on November 1, 1993.

This annual report is prepared to comply with Section 13B(2) of RWQCB Order No. 93-062. Included in this report is site information, waste disposal information, facility changes, all water quality monitoring data collected in 1995 and a discussion of these data. The report also includes a graphical presentation of the groundwater quality data collected during the period from 1991 to 1995.

2.0 SITE INFORMATION

2.1 GENERAL INFORMATION

The Puente Hills Landfill is located immediately east of the San Gabriel River Freeway and immediately south of the Pomona Freeway on Workman Mill Road in Section 3, Township 2 south, Range 11 west, San Bernardino Meridian (refer to Exhibit 1). The principal land acquisition for what is now known as the Puente Hills Landfill was completed in 1970 with the Sanitation Districts' purchase of a 1,214 acre parcel of the Pellissier Ranch. This portion of the Pellissier Ranch included a landfill operation that began in 1957 by the San Jose Development Company. At the time of the 1970 purchase by the Sanitation Districts, approximately six million tons of waste had been placed on the property. Since June 1970, the Sanitation Districts have remained the sole owner and operator of the Puente Hills Landfill. In May 1981, an additional 151 acres of land along the north side of the site was purchased bringing the site acreage to its present 1,365 acres. The Main Canyon

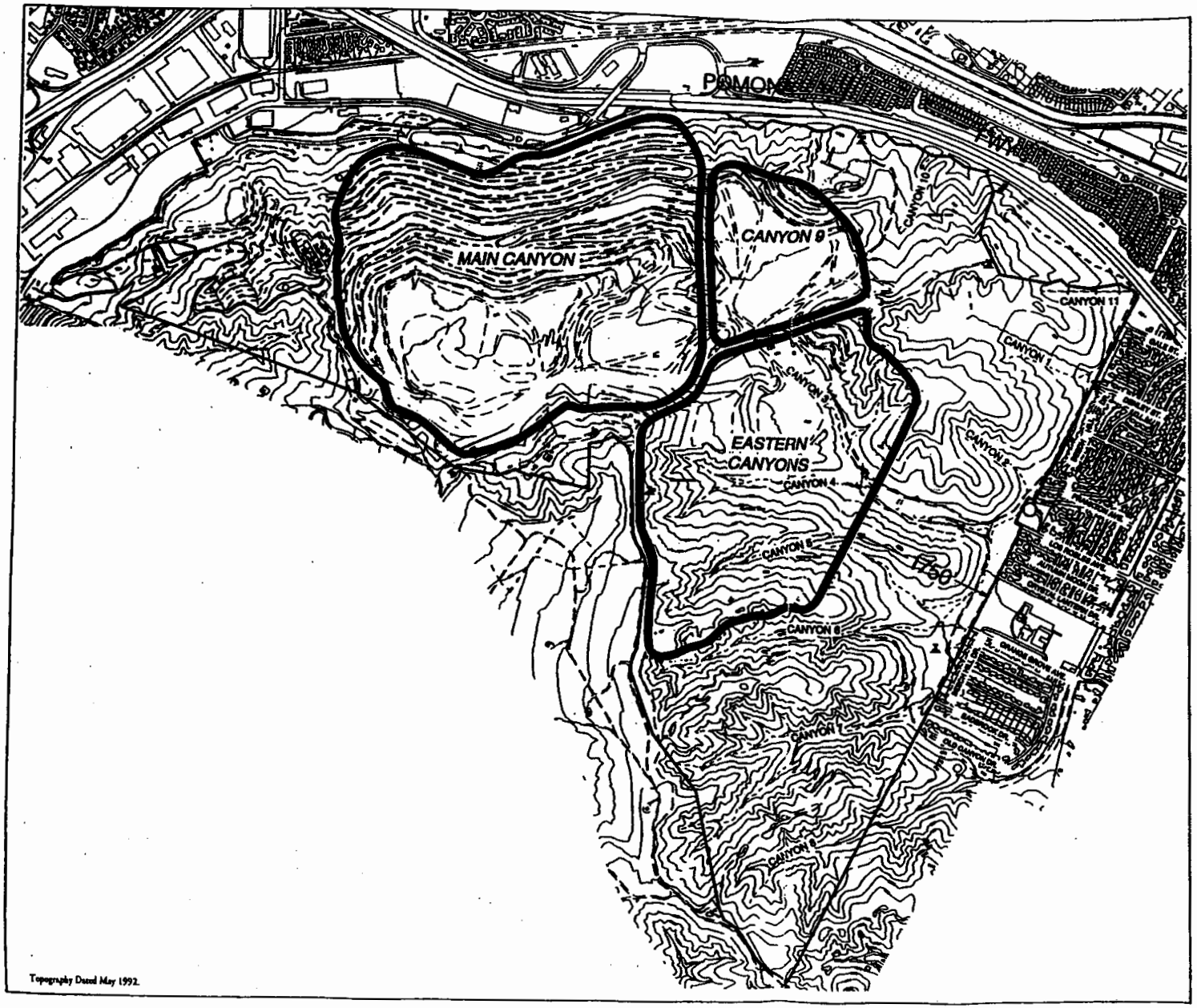


Site Location

EXHIBIT 1

N

NOT TO SCALE



LEGEND

Property Boundary

Site Topography and Identified Site Areas

EXHIBIT 2

N

0 600 1200 FT

is the location of the initial refuse operations which began in 1957. Refuse operations for Canyon 9 began in 1990. In July 1995, refuse operations were expanded into the Eastern Canyons.

The placement of refuse at the site is pursuant to the Conditional Use Permit (CUP) issued by the Los Angeles County Regional Planning. In 1995, the Puente Hills Landfill received approximately 3.1 million tons of solid waste. Exhibit 3 shows the current permitted landfill boundaries under CUP 92-250(4) and the 1995 disposal areas. Table 1 summarizes the monthly solid waste disposal rate. The 1995 average daily disposal rate is approximately 10,100 tons. The Sanitation Districts estimate that as of December 31, 1995, approximately 29.4 million tons of capacity remain at the Puente Hills Landfill under the current CUP. CUP 92-250(4) expires on November 1, 2003, at which time approximately 10 years of additional capacity will remain.

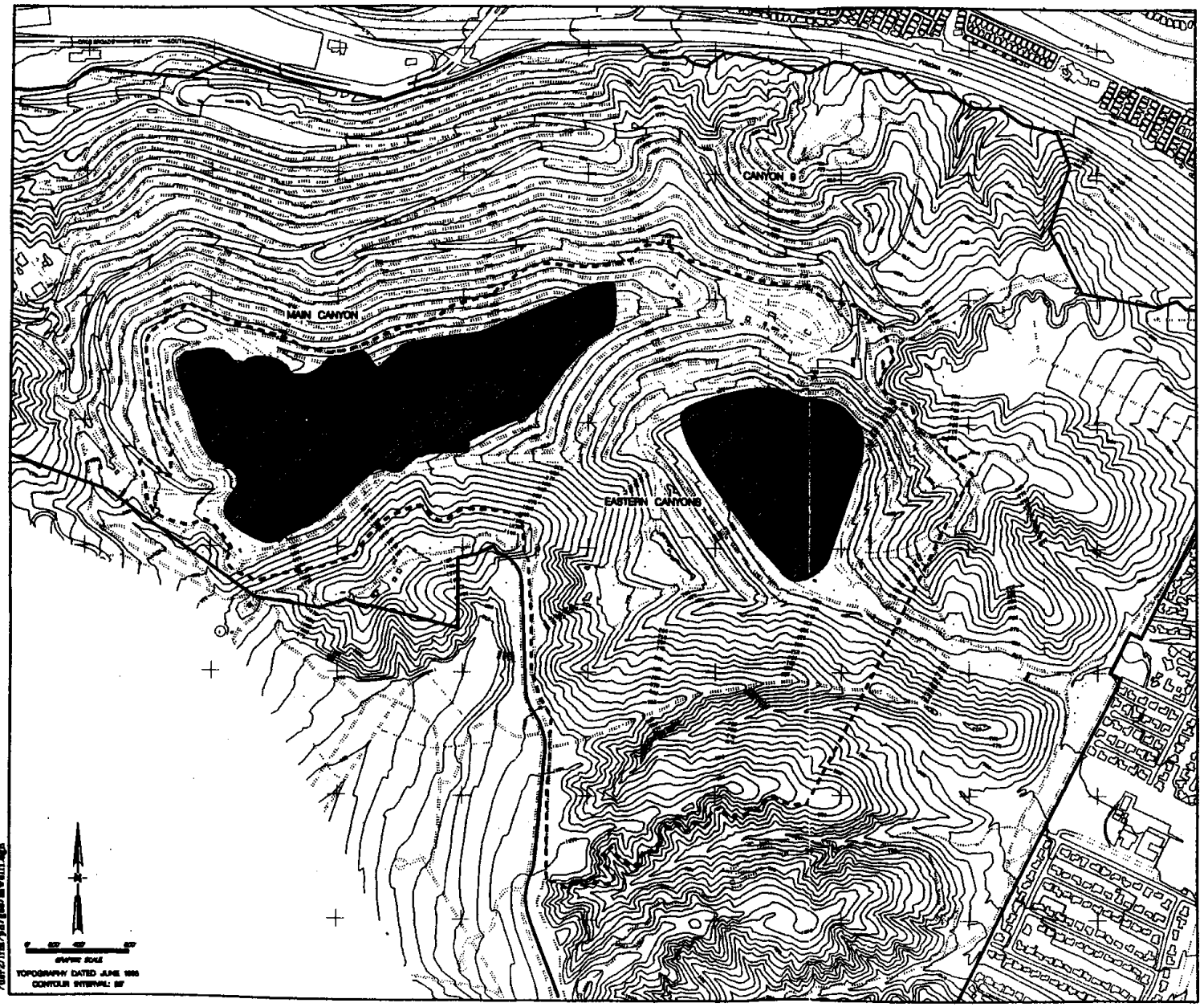
2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Puente Hills Landfill is located on the northern tip of the western Puente Hills, which are part of the Santa Ana Mountains. The western Puente Hills is bounded to the north by floodplain deposits (including San Jose Creek and the San Gabriel Groundwater Basin) and an isolated bedrock outcrop of the Pico Formation referred to as Avocado Heights; to the west by the Whittier Narrows and the San Gabriel River areas; and to the southwest by the Central Groundwater Basin.

The rocks or geologic units of the western Puente Hills area, which include the Puente Hills Landfill, are considered nonwater-bearing because they do not contain or store groundwater in economically recoverable quantities. The western Puente Hills are a major barrier to groundwater flow and separate the San Gabriel Groundwater Basin (north) from the Central Basin (south). The limits of the San Gabriel Groundwater Basin and location of the Central Groundwater Basin are depicted on Exhibit 4.

The San Gabriel Groundwater Basin, an alluvial aquifer, consists of very permeable sands and gravel originating from the San Gabriel Mountains which are capable of transmitting groundwater at high rates. As a result, it has become an important groundwater aquifer in Los Angeles County. Recharge to the San Gabriel Groundwater Basin occurs by percolation of rainfall and stream flow, principally from the San Gabriel River, Rio Hondo, and San Jose Creek. Artificial recharge also takes place in the San Gabriel Groundwater Basin. San Gabriel Groundwater Basin discharge occurs by groundwater pumping and outflow at the Whittier Narrows area.

In addition to the San Gabriel Groundwater Basin, the Central Basin aquifer also serves as a source of drinking water for a large portion of Los Angeles County. The Central Basin is recharged by subsurface flow from the San Gabriel Groundwater Basin. Groundwater contained within these two regional basins is physically separated by the western Puente Hills, except in one area where the western Puente Hills end and the basins are connected - the Whittier Narrows gap. It is through the Whittier Narrows gap and San Gabriel River that the groundwater from the San Gabriel Groundwater Basin very slowly drains into the Central Basin. Groundwater elevation contours for the fall of 1995 in these adjacent groundwater basins are presented in Exhibit 5. As illustrated in Exhibit 5, the groundwater in the San Gabriel Groundwater Basin near the landfill site



LEGEND

- PROPERTY LINE
- PERMITTED FILL AREA
- 1995 DISPOSAL AREAS

EXHIBIT 3

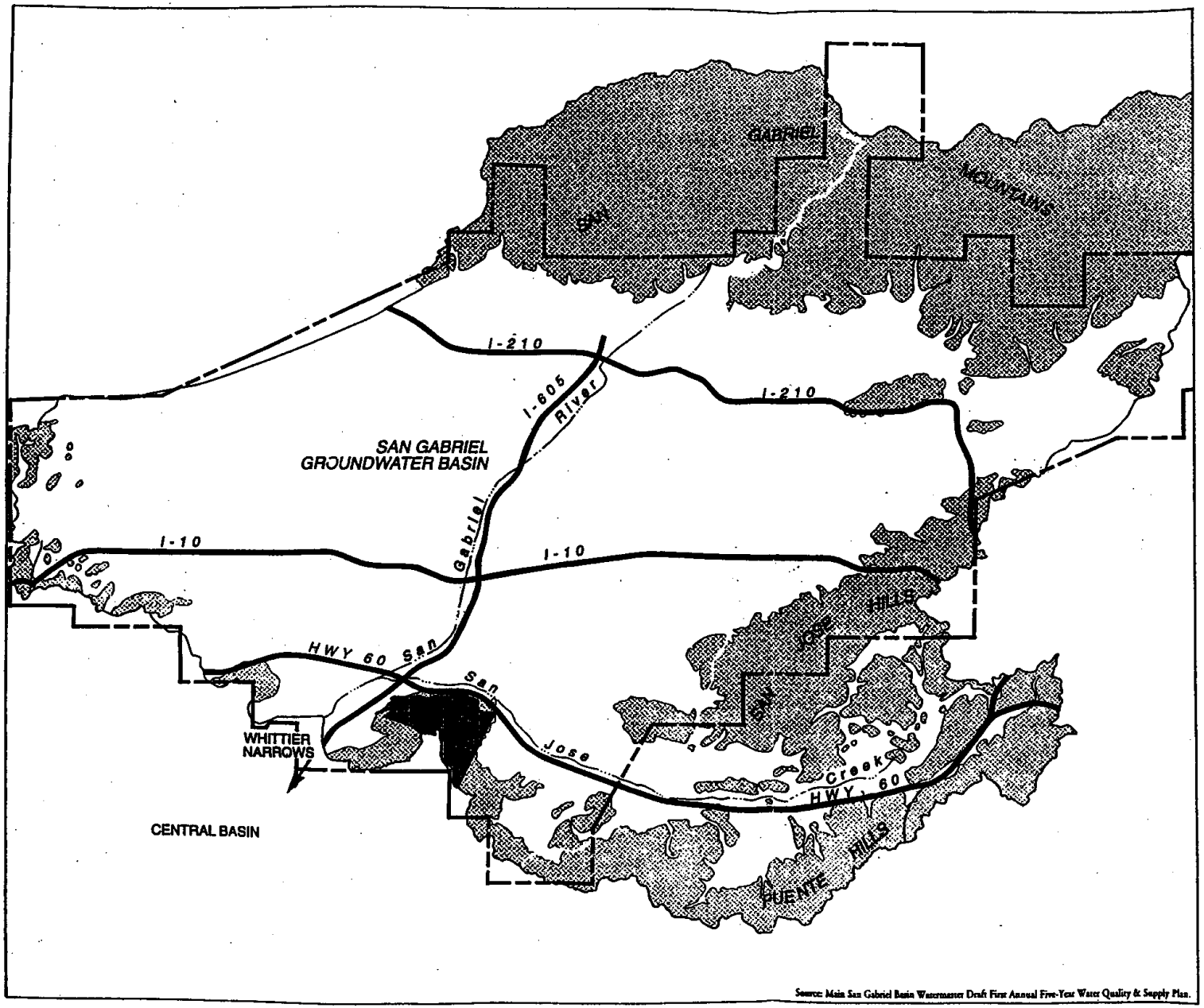
PERMITTED FILL AND
1995 DISPOSAL AREAS

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

TABLE 1
1995 SOLID WASTE DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Nonhazardous Waste (Tons)	Inert Waste (Tons)	Total (Tons)
January	258,349	119	258,468
February	260,156	199	260,355
March	303,424	124	303,548
April	267,086	157	267,243
May	261,492	73	261,565
June	263,976	2	263,978
July	268,854	16	268,870
August	270,831	10	270,841
September	268,412	4	268,416
October	261,472	0	261,472
November	242,650	0	242,650
December	231,668	0	231,668
Total	3,158,370	704	3,159,074

Note: Nonhazardous waste includes dewatered sewage sludge, water treatment sludge, and treated municipal solid waste incinerator ash.



LEGEND

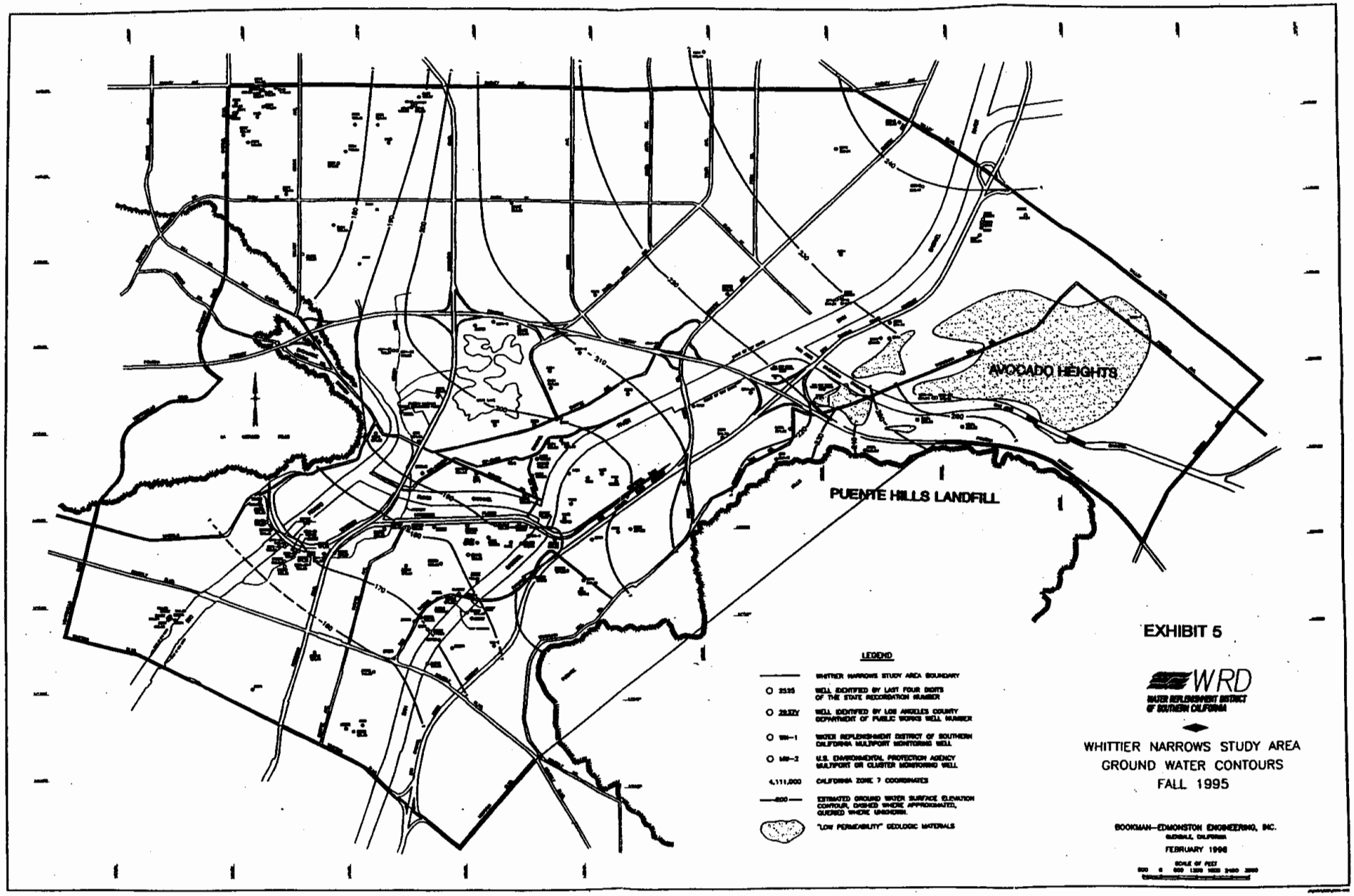
- Groundwater Basin Boundary
- Watershed Boundary
- Freeway
- Narrower-bearing Bedrock
- Puente Hills Landfill

General Basin Geology

EXHIBIT 4

N

NOT TO SCALE


AVOCADO HEIGHTS
PUENTE HILLS LANDFILL
LEGEND
WHITTIER NARROWS STUDY AREA BOUNDARY
2325 WELL IDENTIFIED BY LAST FOUR DIGITS OF THE STATE RECORDATION NUMBER
2932V WELL IDENTIFIED BY LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS WELL NUMBER
WN-1 WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA MULTIPORT MONITORING WELL
MW-2 U.S. ENVIRONMENTAL PROTECTION AGENCY MULTIPORT OR CLUSTER MONITORING WELL
4,111,000 CALIFORNIA ZONE 7 COORDINATES
-200- ESTIMATED GROUND WATER SURFACE ELEVATION CONTOUR, DASHED WHERE APPROXIMATED, QUERIED WHERE UNKNOWN.
"LOW PERMEABILITY" GEOLOGIC MATERIALS
EXHIBIT 5
WRD
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
WHITTIER NARROWS STUDY AREA
GROUND WATER CONTOURS
FALL 1995
BOOKMAN-EDMONSTON ENGINEERING, INC.
GLENDALE, CALIFORNIA
FEBRUARY 1996
SCALE OF FEET
0 500 1000 2000 3000

flows in a northwesterly direction around the bedrock of the Puente Hills and then flows southwesterly towards Whittier Narrows. This flow eventually joins the southerly flow along the San Gabriel River. The geology north of the landfill (which includes the low permeability Avocado Heights area) provides a natural barrier between any groundwater onsite at the Puente Hills Landfill and the San Gabriel Groundwater Basin.

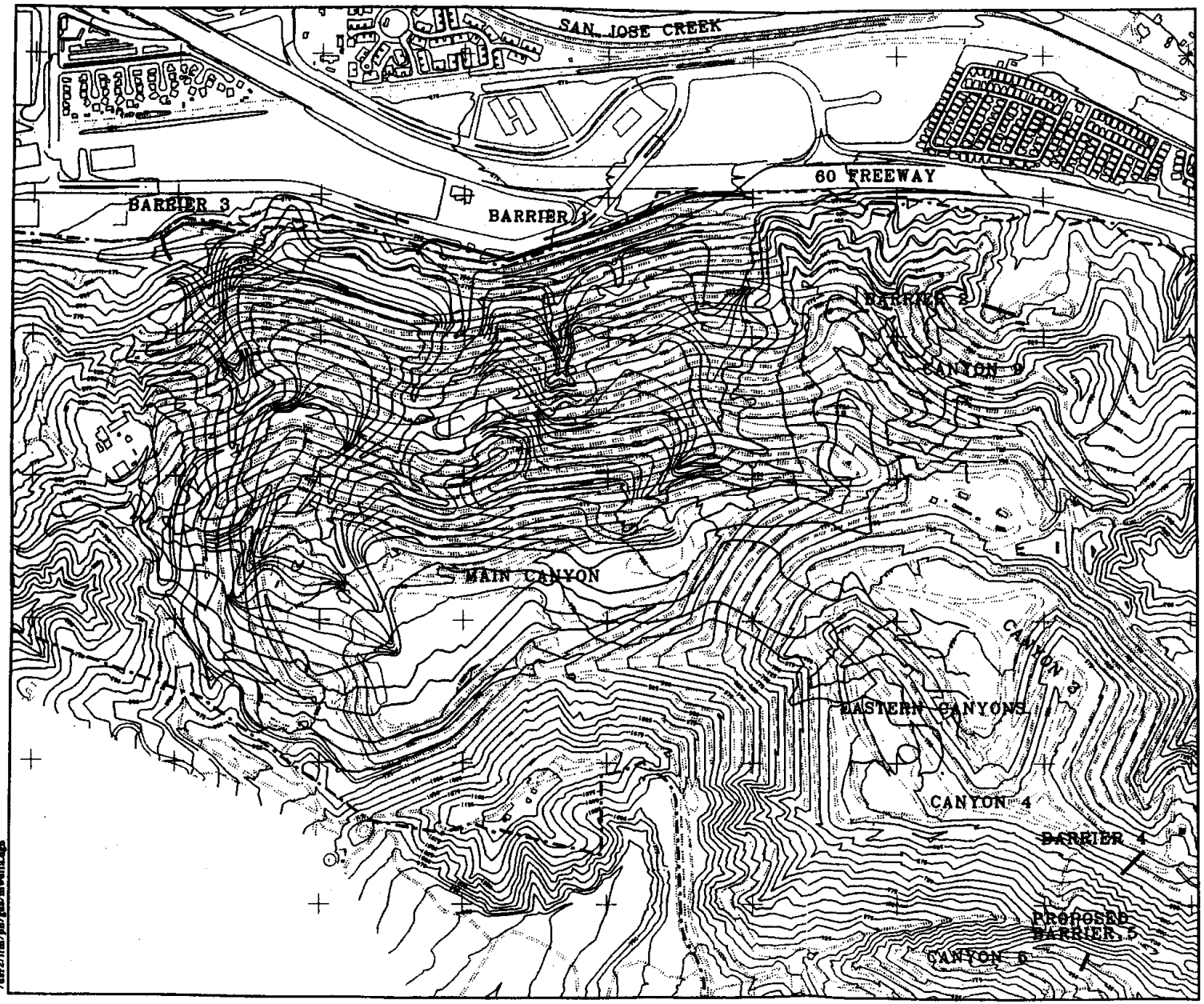
2.2 SITE GEOLOGY AND HYDROGEOLOGY

The Puente Hills Landfill is underlain by a thick sequence of north-northwest dipping sedimentary marine bedrock units. Unconsolidated surficial deposits which can be found overlying bedrock units at the site include terrace deposits, alluvium, colluvium, landslide deposits, and artificial fill. Alluvium is found along narrow canyons which incise the bedrock formations. Canyons oriented toward the east are found along the eastern portion of the site while canyons along the northern portion of the site are oriented toward the north. Several canyons existed in the Main Canyon area prior to landfilling as shown in Exhibit 6. As shown in Exhibit 6, Barriers 1 and 3 have been installed along the north side of the Main Canyon severing these historic drainages. Barrier 2 was installed to sever the historic drainage in Canyon 9. In the Eastern Canyons expansion area, Canyons 3 and 4 are oriented toward the east. Barrier 4 was installed in 1995 to sever the historic drainages in these canyons.

From oldest to youngest, the bedrock units found at the site consist of the Sycamore Canyon member of the Puente Formation, and the Repetto and Pico members of the Fernando Formation. The Sycamore Canyon member outcrops in the southern portion of the Eastern Canyons area (see Exhibit 7). The Sycamore Canyon member is composed of a conglomerate/siltstone unit, two sandstone units, and two conglomerate units. The Repetto member outcrops in the central portion of the Eastern Canyons and underlies the southern landfill materials of Canyon 9 and the Main Canyon. The Repetto member is composed of two conglomerate units, a sandstone/siltstone unit and a siltstone unit. The Pico member occurs at the surface in the northern portion of the site and underlies landfill material in the northern portion of the Main Canyon and Canyon 9. The Pico member is made up of a conglomerate unit, a sandstone unit, an undifferentiated conglomerate, sandstone, and siltstone unit, and a siltstone unit.

Although the bedrock units are considered to be non-water bearing, small amounts of canyon water originate from seasonal rainfall permeation through the alluvium. The canyon water flow regime is delineated into three individual hydrogeologic microenvironments or subareas. These subareas are delineated on Exhibit 8.

Subarea 1 is located in the southeast corner of the site. Canyon water is formed in the alluvial deposits in this region. This is due to the coarse nature of the alluvial soils and the anti-dip orientation of the drainage courses which result in limited percolation of direct precipitation of runoff into the bedrock. Subsurface outflow to the east of Subarea 1 appears minimal and is thought to be confined to the interconnection of onsite alluvium with adjoining offsite older alluvium/terrace deposits of the Puente Sub-basin.



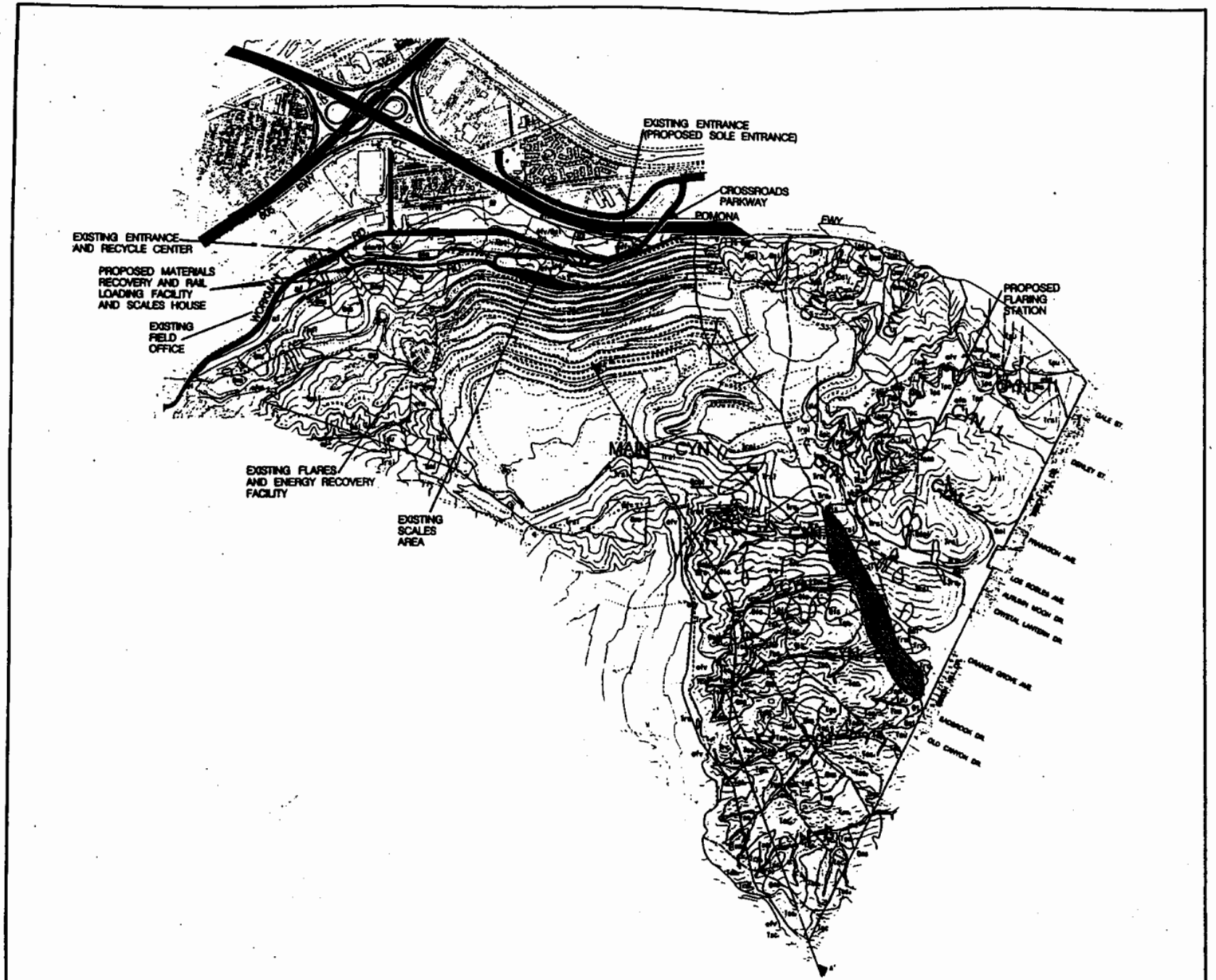
LEGEND

PROPERTY LINE

EXHIBIT 6

CUT TOPOGRAPHY

PUENTE HILLS LANDFILL
SANITATION DISTRICTS



Date of Topographic Survey 4-30-91.

Source: Sanitation Districts of Los Angeles County, 1992.

LEGEND

Quaternary	Holocene	af — Artificial Fill: v-veneer; m-massive
		Qm — Mass Movement Debris: c-colluvium; f-flow; s-slump
		Qal — Stream Alluvium
	Pleistocene	Qt — Terrace, Fan or Older Alluvium
Tertiary		Tp — Pico Member, Fernando Formation: c-predominantly conglomerate; sstone mudstone; s-predominantly mudstone stone conglomerate; sl-siltstone and fine-grained sandstone; u-undifferentiated mudstone and conglomerate, and stone mudstone
		Tr — Repetto Member, Fernando Formation: m-fine to medium grained mudstone stone siltstone; cs-predominantly conglomerate, stone mudstone; (1,2,-units oldest to youngest respectively); sl-siltstone and fine grained mudstone
	Upper Miocene	Ts — Sycamore Canyon Member, Puente Formation: c-conglomerate with thin lenses of mudstone; s-fine to coarse-grained mudstone with thin lenses of conglomerate; u-undifferentiated mudstone and conglomerate; (1,2,-units oldest to youngest respectively);

Surficial Deposit Contact

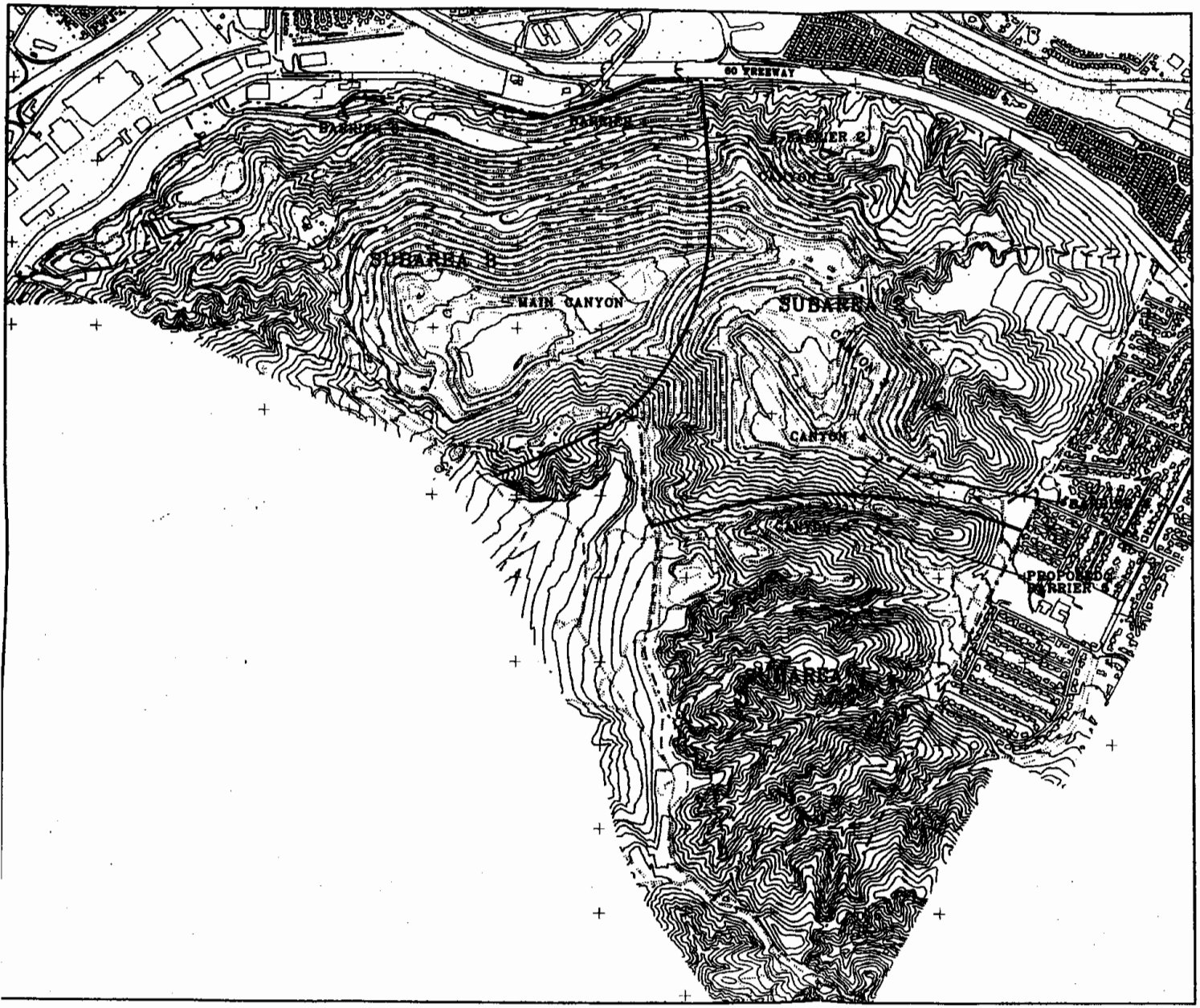
Bedrock Contact, dashed where inferred or questionable

Fault Contact, dashed where inferred or questionable dotted where concealed by surficial deposits; U and D apparent relative displacement up and down

Whittier-Heights Fault Zone

Site Geologic Map

EXHIBIT 7



LEGEND

PROPERTY LINE

0 400 800 1600

GRAPHIC SCALE

TOPOGRAPHY DATE: MAY 1988

EXHIBIT 8

HYDROGEOLOGIC SUBAREAS

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

Subarea 2 is located in the northeast area of the landfill site. This subarea has generally been characterized by the absence of free water in the canyon alluvial deposits. Groundwater occurrence is confined to transmissive coarse sandstone and sandstone-conglomerate units in the bedrock. However, the transmissive sandstone strata are confined by extensive siltstone aquitards which effectively bar continuity with the San Gabriel Groundwater Basin. The degree of subsurface outflow, therefore, is limited by overlying siltstone strata which confine the bedrock water below the alluvial material of the San Gabriel Groundwater Basin. Canyon 9, a northern canyon in this subarea, is cut off by an approximately 190 foot long cement-bentonite subsurface barrier (Barrier 2). Alluvial deposits in Canyons 3 and 4, in the Eastern Canyons expansion area, have historically been described to contain limited amounts of groundwater. However, the Sanitation Districts installed an approximately 218 foot long cement-bentonite subsurface barrier (Barrier 4) to control potential outflow from these canyons. Canyon waters are removed by extraction wells at Barriers 4 (the alluvium at Barrier 2 does not contain groundwater) and are discharged to the sewer system pursuant to industrial waste discharge permits.

Subarea 3 is located in the western portion of the landfill site. These canyon areas are characterized by very low permeability siltstone beds. Potential subsurface outflow in this area is limited to several canyons that exit toward the northern area of the site. Potential outflow from these canyons, however, has been controlled by the placement of two subsurface barriers. The westernmost canyon is cut off by an approximately 750 foot long cement-bentonite subsurface barrier (Barrier 3). The more eastern canyons are cut off by an approximately 2,400 foot long cement-bentonite subsurface barrier (Barrier 1). Canyon waters are removed by extraction wells at both subsurface barriers and are discharged to the sewer system pursuant to industrial waste discharge permits. The locations of the subsurface barriers are indicated on Exhibit 8.

2.3 WATER QUALITY PROTECTION SYSTEMS

The water quality protection systems currently installed at the Puente Hills Landfill include four subsurface barriers with their canyon water extraction system, and two composite liner systems. The purpose for the water quality protection systems is to mitigate the potential for any landfill-affected groundwater to migrate offsite and affect groundwater in the adjacent groundwater basins. The water protection systems for each of the landfill areas is discussed below.

Main Canyon

The groundwater protection systems currently installed at the Main Canyon include Barriers 1 and 3 and their corresponding extraction systems. The locations of the subsurface barriers is shown in Exhibit 8. Subsurface Barrier 1 was installed in 1980 by Bencor Corporation of America. The Sanitation Districts commissioned LeRoy Crandall and Associates to develop design depths and a hydrogeologic profile and to perform third party construction quality assurance (CQA) for the installation of the barrier even though there was no requirement for CQA at the time. The barrier was designed and installed into unweathered bedrock to cut-off any alluvium and weathered bedrock pathway which could serve as a potential conduit for water to migrate from the landfill. The hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. A total of 12 extraction

wells were installed to remove canyon water that collects upgradient of Barrier 1. The design and construction of Barrier 1 was approved by the RWQCB and the State Water Resources Control Board under a Federal Clean Water Grant.

Subsurface Barrier 3 was installed in 1993 by Foster Wheeler Environmental Services. The Sanitation Districts retained the Earth Technology Corporation to perform third party quality assurance for the installation of the barrier. The barrier was installed into competent bedrock to cut-off any alluvium and weathered bedrock pathway which could allow canyon water to migrate from the Main Canyon. The hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. Barrier 3 is equipped with four extraction wells to remove water that collects behind the barrier.

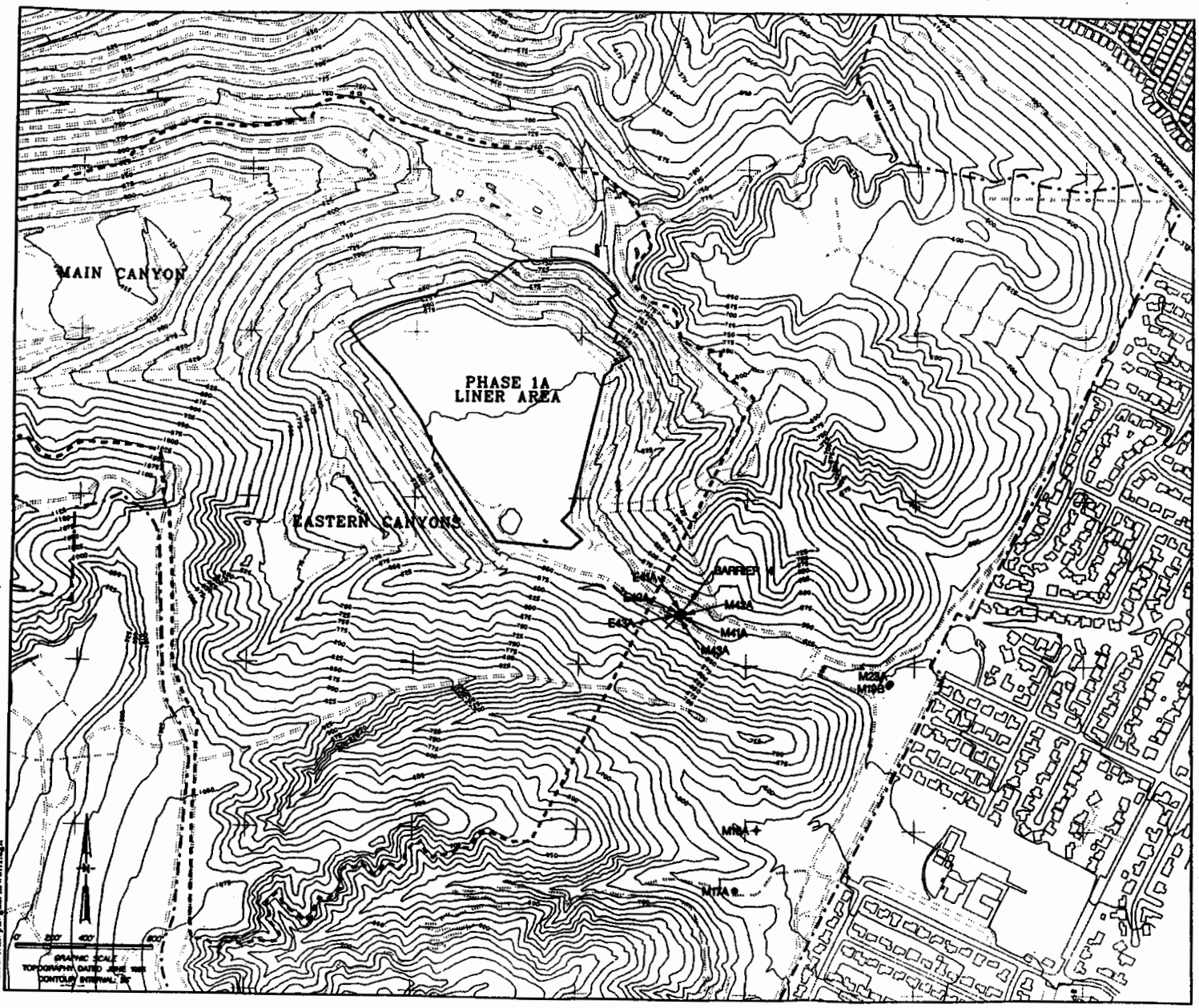
Canyon 9

The groundwater protection systems currently installed at Canyon 9 include Barrier 2 with its corresponding extraction system and a composite liner system. Subsurface Barrier 2 was installed in 1988 by Case International. The Sanitation Districts commissioned Geofon Incorporated to perform third party quality assurance for the barrier installation. The barrier was designed and installed into competent bedrock to cut-off any alluvium and weathered bedrock pathway which could allow canyon water to migrate from Canyon 9. Barrier 2 is equipped with three extraction wells installed to remove any water that collects behind the barrier. No water has been observed in the extraction system since its installation.

The composite liner system for Canyon 9 was installed in 1989 and 1990 prior to refuse placement in Canyon 9. The Canyon 9 composite liner system consists of the following components: the subdrain, the clay liner (minimum one foot thick with a hydraulic conductivity of less than 1×10^{-6} cm/sec), the synthetic liner (80 mil high density polyethylene), the liquids collection and removal system (LCRS), the geotextile filter, and the protective soil layer. These components, together, effectively prevent landfill affected liquids from entering the underlying strata. All components of the Canyon 9 composite liner system were subjected to a series of rigorous quality assurance tests to ensure that all materials used met the design criteria and specifications.

Eastern Canyons

The groundwater protection systems currently installed at the Eastern Canyons include Barrier 4 and its corresponding extraction system and a composite liner system. Subsurface Barrier 4 was installed in 1995 by Clarke Contracting Corporation. The Sanitation Districts commissioned Earth Tech, Incorporated to perform geologic observation and construction quality assurance services for the installation of the barrier. The barrier was designed and installed into competent bedrock to cut-off any alluvium and weathered bedrock pathway which could allow canyon water to migrate from Canyons 3 and 4. Barrier 4 is equipped with three extraction wells to remove any water that collects behind the barrier. The location of the Barrier 4 and its corresponding extraction system are shown in Exhibit 9.



LEGEND

- PROPERTY LINE
- PERMITTED FILL AREA
- EXTRACTION WELL
- BARRIER 4 MONITORING WELL
- BACKGROUND MONITORING WELL
- ABANDONED BACKGROUND MONITORING WELL

EXHIBIT 9

EASTERN CANYONS
LANDFILL AREA

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

The composite liner system for the Eastern Canyons area is being installed in phases. Phase 1A, the first phase, of the liner system was installed in 1995. The extent of the Phase 1A liner is shown in Exhibit 9. The design specifications for the Eastern Canyons composite liner system exceed the Subtitle D requirements described in Order No. 93-062, §7. The Eastern Canyons composite liner system consists of the following components: the subdrain, the clay liner (minimum two foot thick with a hydraulic conductivity of less than 1×10^{-7} cm/sec), the synthetic liner (80 mil high density polyethylene), the LCRS, the geotextile filter, and the protective soil layer. The design specifications for the Phase 1A liner system were submitted to the RWQCB on January 26, 1995 and approved by the RWQCB on April 19, 1995. The construction quality assurance for the phase 1A liner system was performed by the Sanitation Districts' consultant, Vector Engineering, and was approved by the RWQCB.

3.0 WATER QUALITY MONITORING PROGRAMS

The following water quality monitoring programs were implemented at the Puente Hills Landfill during 1995: groundwater monitoring, surface water monitoring, monitoring of liquid collection and removal systems (LCRS) of the Canyon 9 and Eastern Canyons liner systems, monitoring of reused water, and monitoring of treated incinerator ash and dewatered sewage sludge disposed of at the landfill.

3.1 GROUNDWATER

Groundwater monitoring follows the programs described in *Puente Hills Landfill Water Quality Monitoring System Report for Compliance with RWQCB Order No. 93-062* (herein referred to as the Subtitle D Report) and the requirements in Title 23, Chapter 15, Article 5 of California Code of Regulations. The Subtitle D Report was prepared by the Sanitation Districts to comply with both federal and state requirements on groundwater monitoring and was submitted to the RWQCB on August 9, 1994. Implementation of the programs proposed in the Subtitle D Report began in the fourth quarter of 1994.

At the Puente Hills Landfill, a groundwater detection monitoring program is in place for Canyon 9, Eastern Canyons, and portions of the Main Canyon. The portions of the Main Canyons not in a detection monitoring program are in a groundwater evaluation monitoring program. Specifically, these areas are monitored by well RMW6 at Barrier 1 and wells M31A and M33A at Barrier 3. The following sections discuss these monitoring programs.

3.1.1 Detection Monitoring

3.1.1.1 Monitoring System

The groundwater detection monitoring system at the Puente Hills Landfill is specified by the RWQCB in MRP No. 2294, for the Main Canyon and Canyon 9, and in a September 14, 1995 letter to the Sanitation Districts for the portions of the Eastern Canyons where landfill operations have begun. The Sanitation Districts proposed in the Subtitle D Report to exclude vadose zone

lysimeters, which were specified in MRP No. 2294, from the monitoring system since lysimeters do not provide additional information about groundwater conditions. Three wells specified in MRP No. 2294 (RMW6, M31A, and M33A) detected volatile organic compounds (VOCs) in December 1994. As a result, these wells are no longer part of the detection monitoring system and are considered evaluation monitoring wells. They are discussed later in Section 3.1.2.1.

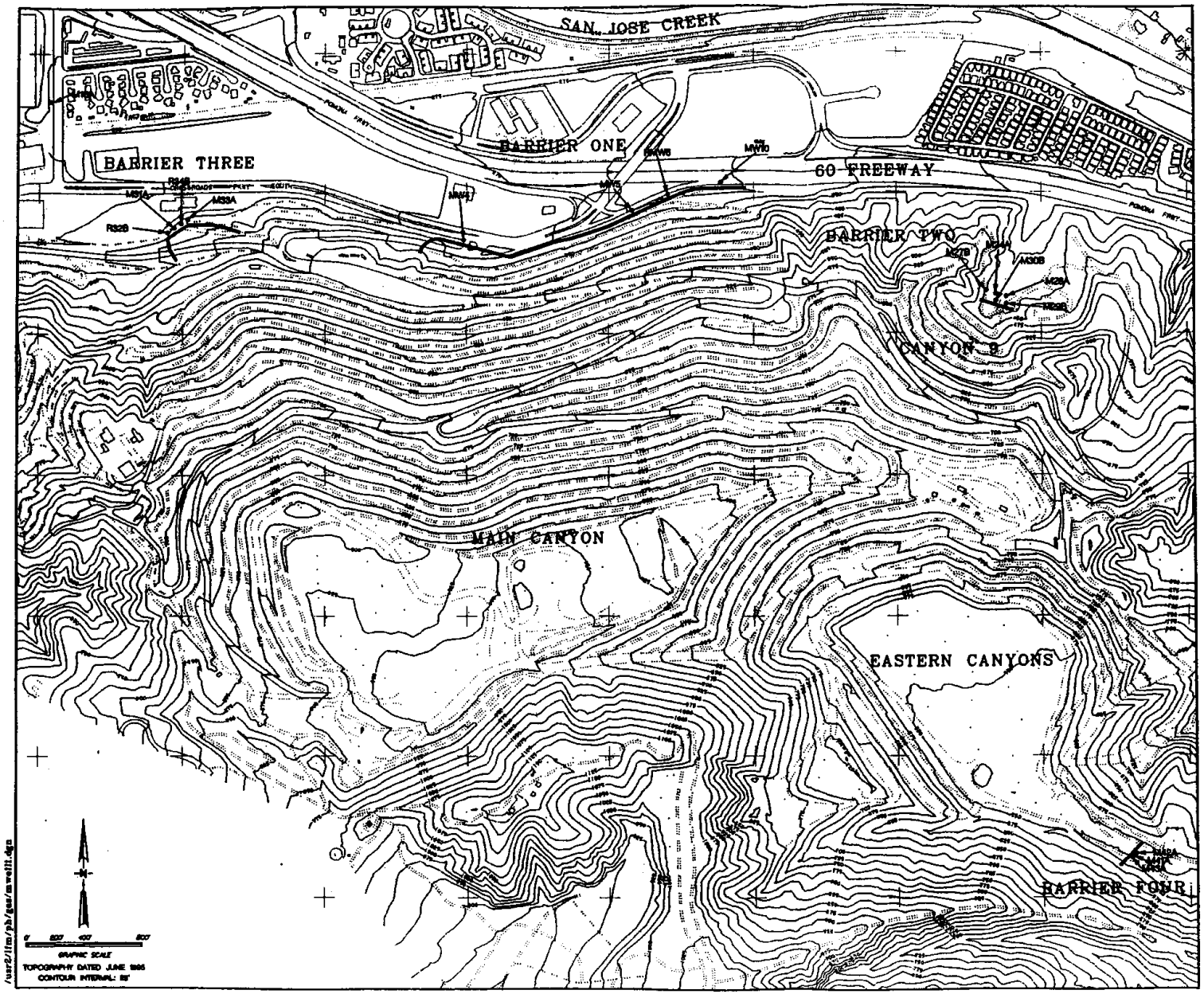
The current groundwater detection monitoring system at the Puente Hills Landfill therefore includes the following wells: MW4, MW5, and MW10 downgradient of Barrier 1; wells M24A, M27B, M28A, M29B, and M30B downgradient of Barrier 2; wells R32B and R34B downgradient of Barrier 3, and wells M41A, M42A, and M43A downgradient of Barrier 4. The locations of these monitoring wells are shown on Exhibit 10. No water has been observed in well MW10 since its installation. These detection monitoring wells represent the compliance monitoring points where water quality is compared with background conditions to determine whether there is a release from the landfill. The following paragraphs discuss the monitoring wells downgradient of each barrier and describes how background water quality conditions are determined for each area.

Main Canyon

Barrier 1 downgradient detection monitoring wells include MW4, MW5, and MW10. These wells are situated in canyon alluvium where the groundwater flow is cut off by Barrier 1 and collected by the extraction system upgradient of Barrier 1. Barrier 3 downgradient detection monitoring wells include R32B and R34B (Barrier 3 downgradient wells M31A and M33A are evaluation monitoring wells). These wells are completed in bedrock of the Pico Formation.

Regulations allow for several alternatives for the determination of landfill background water quality. One method is sampling from monitoring wells that are hydraulically upgradient of the landfill. The assumption inherent in using this method is that the water quality at hydraulically upgradient, or background, wells is the same as the water quality at compliance monitoring wells downgradient of the landfill. Therefore any effects from the landfill can be determined by statistically comparing water quality between upgradient and downgradient monitoring wells. For landfills located in a groundwater basin, this approach may be applicable because the water quality in the basin is relatively constant. However, for a canyon landfill, such as the Puente Hills Landfill, where groundwater originates primarily from local precipitation, canyon groundwater at up-canyon locations may not have reached equilibrium with the unweathered sediments. As the groundwater flows down-canyon, constituent concentrations will increase as the groundwater approaches equilibrium conditions with the sediments. This phenomenon causes the groundwater quality from upgradient wells to be naturally different from that of downgradient wells. Consequently this approach is not applicable at the Puente Hills Landfill and cannot be used to determine background water quality for the Main Canyon area.

A second approach to determining background water quality is to use historically collected groundwater quality data from compliance monitoring wells prior to waste placement. Compliance monitoring wells may be installed prior to waste disposal in an area and monitored for a period of



LEGEND

- PROPERTY LINE
- MONITORING WELL
- EXISTING SUBSURFACE BARRIER

EXHIBIT 10

GROUNDWATER QUALITY MONITORING LOCATIONS

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

/usr2/ltm/pb/gac/mwelll.dgn

time to obtain water quality information before landfill operations. Once waste placement begins, water quality monitoring data from newly collected samples may be compared to the historical data from the same well to determine whether there is any change in water quality that may potentially be caused by landfill operations. Concentration limits based on pre-disposal water quality data can be calculated and used for the "intrawell comparison." A statistically significant change in water quality is indicated if a limit is exceeded. This method for characterizing background water quality is most applicable to a canyon landfill. Potential false positive detections (i.e., when data analysis indicates a release, but in fact there is not) due to spatial variations of background water quality are eliminated.

For Canyon 9 and the Eastern Canyons, this approach is used to determine background water quality (see discussion later in this section). However, there were no historical water quality data from the Main Canyon area of the Puente Hills Landfill before operations started in 1957. Therefore the intrawell comparison method cannot be used to determine background water quality for the Main Canyon monitoring wells; other approaches have to be used for this purpose.

A third approach for determining background groundwater quality is the use of wells in geochemically similar areas. Both federal and state regulations allow background water quality to be determined based on data from wells that are not hydraulically upgradient of the landfill if sampling at other wells will provide an indication of background groundwater that is more representative than that provided by upgradient wells.

Since the first two methods are not possible, this alternative was used to determine background water quality for the Main Canyon monitoring wells at the Puente Hills Landfill. In 1987, the Sanitation Districts installed monitoring wells M17A, M18A, M19B, and M23A (see Exhibit 9) in areas not affected by landfill operations at the time. These wells are not hydraulically upgradient of the landfill operations, but they are in locations which are geochemically similar to the location of the groundwater monitoring wells downgradient of the Main Canyon area. These wells are therefore used to provide an indication of background groundwater quality for the Main Canyon monitoring wells. These wells were monitored on a quarterly basis from 1987 to the second quarter of 1995. Monitoring of these wells ended in 1995 because these wells have become hydraulically downgradient of the landfilling operations in the Eastern Canyons. Monitoring well M18A was abandoned in August 1995 with RWQCB's approval to facilitate the landfill expansion. The monitoring data collected from these wells provide a significant database of water quality information not affected by landfill operations, or background water quality. Table 2 summarizes the range of the water quality from these wells.

Data from 1987 to 1994 were used to statistically calculate concentration limits for the Main Canyon monitoring wells (MW4, MW5, RMW6, M31A, R32B, M33A, and R34B) in 1994; details of the statistical procedures used and the concentration limits are presented in the Subtitle D Report. The concentration limits were updated and presented in *Amended Report of Waste Discharge - Evaluation Monitoring Program, Puente Hills Landfill*, submitted to the RWQCB on May 30, 1995. Table 3 summarizes the concentration limits proposed for the Main Canyon detection monitoring wells.

TABLE 2
BACKGROUND GROUNDWATER QUALITY CONDITIONS
PUENTE HILLS LANDFILL

CONSTITUENTS		BACKGROUND WELLS* (M17A, M18A, M19B, M23A)			1984 SOIL EQUILIBRIUM** STUDY RESULTS			1993 MINERAL LEACHING STUDY RESULTS			OVERALL BACKGROUND RANGE		
General													
FIELD PH	PH	4.21	-	8.25	NA	-	NA	NA	-	NA	4.21	-	8.25
CONDUCTIVITY	UMHOS/CM	1585	-	5500	643	-	9310	284	-	9330	284	-	9330
TOTAL DISSOLVED SOLIDS	MG/L	1663	-	5957	420	-	9490	NA	-	NA	420	-	9490
TOTAL HARDNESS	MG/L	913	-	3380	420	-	5990	67	-	6983	67	-	6983
TOTAL CYANIDE	MG/L	<0.002	-	<0.1	NA	-	NA	NA	-	NA	<0.002	-	<0.1
BORON	MG/L	0.13	-	1.5	<0.9	-	1.1	0.05	-	2.8	0.05	-	2.8
TOTAL ALKALINITY	MG/L	292	-	856	210	-	343	12	-	470	12	-	856
Anions			-										
SULFATE	MG/L	206	-	4000	40	-	5990	13	-	7200	13	-	7200
CHLORIDE	MG/L	69	-	260	26	-	84.2	8.0	-	220	8.0	-	260
FLUORIDE	MG/L	0.43	-	3.23	NA	-	NA	0.3	-	6.0	0.3	-	6.0
BICARBONATE ALKALINITY	MG/L	292	-	856	NA	-	NA	NA	-	NA	292	-	856
NITRATE NITROGEN	MG/L	<0.01	-	33.19	0.2	-	1.0	0.01	-	19.19	<0.01	-	33.19
Cations													
SODIUM	MG/L	148	-	582	20	-	170	16	-	1200	16	-	1200
IRON	MG/L	<0.02	-	170	1.9	-	36.2	0.04	-	0.7	<0.02	-	170
MANGANESE	MG/L	0.003	-	13.6	1.8	-	3.69	0.01	-	15	0.003	-	15
CALCIUM-HARDNESS	MG/L	454	-	1460	330	-	2890	45	-	1650	45	-	2890
MAGNESIUM-HARDNESS	MG/L	56	-	2100	77	-	3220	20	-	5833	20	-	5833
POTASSIUM	MG/L	2.0	-	50	9.0	-	44	2.0	-	55	2.0	-	55
Organic Matter													
TOTAL BOD	MG/L	<0.7	-	8.0	NA	-	NA	NA	-	NA	<0.7	-	8.0
TOTAL COD	MG/L	<1.0	-	192	NA	-	NA	5.0	-	120	<1.0	-	192
SOLUBLE COD	MG/L	<1.0	-	40	61	-	150	NA	-	NA	<1.0	-	150
TOTAL ORGANIC CARBON	MG/L	1.1	-	14	23.6	-	134	3.2	-	64	1.1	-	134
AMMONIA NITROGEN	MG/L	<0.01	-	3.5	1.7	-	5.9	0.1	-	6.7	<0.01	-	6.7
TOTAL ORGANIC HALOGEN***	UG/L	<3.0	-	70	NA	-	NA	NA	-	NA	<3.0	-	70
OIL & GREASE	MG/L	<0.9	-	4.0	150	-	1430	NA	-	NA	<0.9	-	1430
Filtered Metals													
ANTIMONY	MG/L	<0.001	-	0.008	NA	-	NA	<0.005	-	0.0067	<0.001	-	0.008
ARSENIC	MG/L	<0.001	-	0.003	0.0096	-	0.06	0.002	-	0.01	<0.001	-	0.06
BARIUM	MG/L	<0.02	-	0.11	NA	-	NA	0.01	-	0.09	<0.02	-	0.11
BERYLLIUM	MG/L	<0.0005	-	0.02	NA	-	NA	<0.001	-	<0.001	<0.0005	-	0.02
COBALT	MG/L	<0.01	-	0.42	NA	-	NA	<0.04	-	<0.04	<0.01	-	0.042
COPPER	MG/L	<0.002	-	0.16	0.041	-	0.16	0.02	-	0.05	<0.002	-	0.16
NICKEL	MG/L	<0.02	-	1.66	0.083	-	0.11	0.04	-	0.39	<0.02	-	1.66
SELENIUM	MG/L	<0.0009	-	0.029	<0.002	-	0.019	0.004	-	0.29	<0.0009	-	0.29
THALLIUM	MG/L	<0.002	-	<0.10	NA	-	NA	<0.003	-	<0.003	<0.002	-	<0.10
TIN	MG/L	<0.06	-	<0.06	NA	-	NA	<0.5	-	<0.5	<0.06	-	<0.5
VANADIUM	MG/L	<0.05	-	<0.05	NA	-	NA	<0.04	-	<0.04	<0.04	-	<0.05
ZINC	MG/L	<0.01	-	0.85	0.06	-	0.11	0.01	-	0.07	<0.01	-	0.85

NOTES

* - Data obtained from 8/10/87 - 6/30/95.

** - Samples collected in the 1984 Soil Equilibrium Study were not filtered. The conglomerate sample was not included due to high suspended solids

*** - Data obtained from 6/27/91 - 6/30/95

NA - Not Analyzed

TABLE 3
PROPOSED CONCENTRATION LIMITS FOR NATURALLY OCCURRING CONSTITUENTS OF CONCERN PUENTE HILLS LANDFILL

CONSTITUENTS		BARRIER 1 (1)			BARRIER 3 (1)				BARRIER 2 (2)			MAXIMUM BACKGROUND RESULTS (3)
		MW4	MW5	RMW6	M31A	M33A	R32B	R34B	M24A	M27B	M29B	
General												
FIELD PH	PH	6.42*	6.42*	6.42*	6.42*	6.42*	6.42*	6.42*	6.57*	6.46*	6.75*	4.21*
CONDUCTIVITY	UMHOS/CM	5345	5345	5345	5345	5345	5345	5345	1296	1150	2420	9330
TOTAL DISSOLVED SOLIDS	MG/L	5160	5160	5160	5160	5160	5160	5160	954	924	1570	9490
TOTAL HARDNESS	MG/L	2490	2490	2490	2490	2490	2490	2490	676	664	1250	6983
TOTAL CYANIDE	MG/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	ND	0.01	< 0.1
BORON	MG/L	1.63	1.63	1.63	1.63	1.63	1.63	1.63	0.575	0.666	0.615	2.8
TOTAL ALKALINITY	MG/L	719	719	719	719	719	719	719	307	325	309	856
Anions												
SULFATE	MG/L	2960	2960	2960	2960	2960	2960	2960	430	415	729	7200
CHLORIDE	MG/L	310	310	310	310	310	310	310	50	50	160	260
FLUORIDE	MG/L	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.26	21.2	1.36	6.0
BICARBONATE ALKALINITY	MG/L	719	719	719	719	719	719	719	307	325	318	856
NITRATE NITROGEN	MG/L	22.3	22.3	22.3	22.3	22.3	22.3	22.3	0.205	0.246	0.381	33.19
Cations												
SODIUM	MG/L	530	530	530	530	530	530	530	54	39	86	1200
IRON	MG/L	117	117	117	117	117	117	117	16.8	44.3	26.4	170
MANGANESE	MG/L	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.78	0.84	1.5	15
CALCIUM-HARDNESS	MG/L	1240	1240	1240	1240	1240	1240	1240	493	470	808	2890
MAGNESIUM-HARDNESS	MG/L	1270	1270	1270	1270	1270	1270	1270	176	159	388	5833
POTASSIUM	MG/L	11	11	11	11	11	11	11	8.0	7.0	8.0	55
Organic Matter												
SOLUBLE COD	MG/L	31	31	31	31	31	31	31	9.74	11.3	18.2	150
TOTAL ORGANIC CARBON	MG/L	13	13	13	13	13	13	13	5.4	8.4	5.0	134
AMMONIA NITROGEN	MG/L	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.8	6.7
OIL & GREASE	MG/L	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	7.0	5.0	1430
Filtered Metals												
ANTIMONY	MG/L	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0066	0.0064	0.0060	0.008
ARSENIC	MG/L	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.001	0.003	0.002	0.06
BARIUM	MG/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.06	0.06	0.11
COPPER	MG/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.16
NICKEL	MG/L	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.06	0.04	0.1	1.66
SELENIUM	MG/L	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.003	0.003	0.002	0.29
ZINC	MG/L	0.17	0.17	0.17	0.17	0.17	0.17	0.17	2.2	0.098	0.089	0.85

NOTES:

(1) Concentration limits calculated based on monitoring data from background wells M17A, M18A, M19B, and M23A.

(2) Concentration limits calculated based on intrawell comparison.

(3) Maximum background results are based on background wells monitoring data and results for experimental study (see Table 2).

* - Lower concentration limit.

The lower field pH concentration limits for Barriers One, Two, and Three were calculated using the same method as described in Puente Hills Landfill Water Quality Monitoring System Report, dated August 9, 1994.

At a canyon landfill, such as the Puente Hills Landfill, background water quality varies spatially and seasonally as a result of diverse hydrologic and geochemical processes. Hydrologic processes include the seasonal recharge and drainage of alluvial and bedrock formations and the gradual movement and blending of formation waters. Geochemical processes comprise a variety of reactions within rocks and sediments including simple solubilization of salts, equilibria and ion exchange phenomena, irreversible weathering processes, interactions with atmospheric and soil gases, and oxidation or reduction of solid and soluble species. Experimental studies are useful for exploring the variability of background water quality and supplementing background water quality information obtained from background wells.

To investigate the range of background water quality conditions, the Sanitation Districts conducted two experimental studies using soil samples collected from areas not affected by landfill operations at the Puente Hills Landfill. The first study was conducted in 1984 and the second study from 1989 to 1993. Soil samples representative of the major geologic formations at the site, i.e., the Pico Formation sandstone, Pico Formation siltstone, and Repetto Formation siltstone, were used for these studies. Pico Formation siltstone and Repetto Formation siltstone are the predominant bedrock materials in the Main Canyon area, while the Pico Formation sandstone is the predominant bedrock material in the Canyon 9 area. The Repetto Formation siltstone is also present in the Eastern Canyons expansion area. The soil samples were placed in laboratory reactors and were saturated with deionized water. The water was periodically monitored for conductivity until equilibrium conditions, indicated by relatively constant conductivity readings, were established in the reactors. The water samples were then filtered with a 0.45 micron filter and analyzed for selected water quality parameters. The results from the second study have been summarized in a report entitled *Mineral Leaching Study, Puente Hills Landfill*, which was submitted to the RWQCB in 1993. Additional results were obtained by the Sanitation Districts in 1995 for six heavy metals (antimony, thallium, beryllium, tin, vanadium, and cobalt) not previously analyzed. Table 2 summarizes the results from the two experimental studies. The background water quality from the experimental studies indicated elevated levels of total dissolved solids (TDS), oil and grease, and organic matter (soluble COD and total organic carbon). The presence of these constituents reflects the marine origin of the formations at the site. The residual salinity in the formations is evidenced by the high TDS and conductivity levels. Elevated levels of oil and grease and organic matter are due to the breakdown of marine detritus which was deposited in the formations. In addition to the high TDS, oil and grease, and organic matter levels, several heavy metals also show elevated background levels. The results from these experimental studies augment the Sanitation Districts' background water quality database for the Puente Hills Landfill and are used as a reference to the concentration limits that are statistically calculated. Table 2 shows the overall range of background water quality based on background wells and experimental studies.

Canyon 9

Monitoring wells M24A, M27B, M28A, M29B, and M30B are situated in alluvium and bedrock of the Pico Formation at the mouth of Canyon 9. Very little or no canyon water has been observed in alluvial monitoring wells M28A and M30B since their installation. Water was observed

in the three bedrock monitoring wells M24A, M27B, and M29B. These wells are the compliance monitoring wells for the Canyon 9 area.

The background water quality for the Canyon 9 area was determined based on historical monitoring data collected from M24A, M27B, and M29B before waste disposal. The Sanitation Districts monitored these wells for approximately nine months, on a monthly basis, prior to waste disposal in Canyon 9. These data were used to calculate concentration limits for intrawell comparison with monitoring data collected after waste placement. The concentration limits were calculated using the tolerance or non-parametric prediction limit method. The Subtitle D Report contains a detailed description of the statistical methods used to derive the concentration limits. The concentration limits were updated in *Amended Report of Waste Discharge - Evaluation Monitoring Program, Puente Hills Landfill* and are summarized in Table 3.

Eastern Canyons

The current groundwater detection monitoring system for the Eastern Canyons expansion area includes wells M41A, M42A, and M43A. These wells monitor the uppermost aquifer, which is in the alluvium, downgradient of Barrier 4. Additional monitoring wells may be proposed by the Sanitation Districts for future expansion area once groundwater flow conditions are fully defined. The Sanitation Districts initiated two geotechnical and hydrogeologic investigations in 1995 to better define groundwater occurrence and the uppermost aquifer in the Eastern Canyons. One investigation was at the mouth of Canyon 5. This study was conducted by the Sanitation Districts' consultant, International Technology Corporation, and was completed in January 1996. This study focused on the proposed Barrier 5 area. Piezometers were installed near the proposed alignment for Barrier 5. Three of the piezometers will be monitored beginning in 1996 to provide background water quality information for future groundwater monitoring wells to be installed downgradient of Barrier 5.

The other investigation is currently being performed by the Sanitation Districts' consultant, Dames and Moore, and is expected to be completed in 1996. The study covers the entire future expansion area. One objective of this study is to characterize the groundwater systems, particularly in the bedrock, for the future expansion area. As part of the study, bedrock groundwater at the mouth of Canyon 4 will be investigated to determine whether a bedrock groundwater monitoring system is necessary to supplement the existing alluvial monitoring system. The results from the hydrogeologic portion of the study will be used to design a groundwater monitoring system that meets both the federal and state regulatory requirements.

The background water quality for the current detection monitoring system downgradient of Barrier 4 will be determined based on an approach outlined by the Sanitation Districts in an August 21, 1995 letter to the RWQCB. This approach involved using monitoring data collected both before and after waste disposal in Canyons 3 and 4. Wells M41A, M42A, M43A were monitored once before waste placement began in July 1995. The monitoring data collected after waste placement will be compared to data collected prior to waste placement. If the data collected after waste placement indicate no effect from waste disposal, then concentration limits will be proposed using

the intrawell tolerance or prediction limit method once four quarters of monitoring data from these wells have been collected. Because the waste disposal area is lined with a composite liner system exceeding the Subtitle D design criteria, the Sanitation Districts expect that the landfill will not affect water quality at M41A, M42A, and M43A. This can be verified by examining for any detection of volatile organic compounds (VOCs), which is the best indication of any landfill effect. Before the concentration limits are developed, the Sanitation Districts will compare monitoring data from M41A, M42A, and M43A with historical monitoring data from background wells M17A, M18A, M19B, and M23A. The RWQCB approved this approach in a September 14, 1995 letter to the Sanitation Districts.

3.1.1.2 Monitoring Program

The Sanitation Districts proposed in the Subtitle D Report that detection monitoring wells are tested on a quarterly basis for metal surrogates (pH, TDS, sulfate, chloride, and nitrate) and the VOCs contained in Appendix I to Title 40, Code of Federal Regulations, Part 258 (or Appendix I VOCs). In 1995, these monitoring parameters were analyzed for Main Canyon and Canyon 9 detection monitoring wells in June, September, and December. In addition, the Sanitation Districts tested three metals (thallium, tin, and vanadium) on a quarterly basis in 1995 at these detection monitoring wells. The purpose of these analyses is to collect background water quality information for these metals so that concentration limits can be calculated once four quarters of data are collected. In March, 1995, the Sanitation Districts sampled all detection monitoring wells for analysis of the constituents of concern (general parameters, metals, VOCs, base neutral/acid extractable compounds, pesticides, and herbicides) following detections and confirmation of VOCs at three site monitoring wells (RMW6, M31A, and M33A). Table 4 summarizes the monitoring schedule for all groundwater monitoring wells in 1995; it presents the months that specific monitoring parameters were analyzed for each of the monitoring wells..

For background wells M17A, M18A, M19B, and M23A, the Sanitation Districts analyzed all constituents of concern in March 1995 and the quarterly monitoring parameters (metal surrogates, Appendix I VOCs, thallium, tin, and vanadium) in June 1995. For new detection monitoring wells downgradient of Barrier 4, i.e., M41A, M42A, and M43A, the Sanitation Districts analyzed the quarterly monitoring parameters plus additional general parameters in July, before waste disposal began in the Eastern Canyons, and in September (M41A only). In December, these wells were analyzed for all constituents of concern. Table 4 shows the months that groundwater sampling and analysis took place at the background wells and Barrier 4 detection monitoring wells.

3.1.2 Evaluation Monitoring

3.1.2.1 Monitoring System

In December 1994, the Sanitation Districts detected low levels of VOCs at well RMW6 downgradient of Barrier 1 and at wells M31A and M33A downgradient of Barrier 3. Well RMW6 is in the alluvium and weathered Pico Formation bedrock, while monitoring wells M31A and M33A are completed in alluvium overlying the Pico Formation bedrock. The VOC detections were

TABLE 4
1995 WATER QUALITY MONITORING SCHEDULE
PUENTE HILLS LANDFILL

	Barrier 1			Barrier 2			Barrier 3				Barrier 4			Offsite	Background			
Constituents of Concern	MW4	MW5	RMW6	M24A	M27B	M29B	M31A	R32B	M33A	R34B	M41A	M42A	M43A	M16A	M17A	M18A	M19B	M23A
Metal Surrogates	3,6,9,12	3,6,9,12	3,6,9,12	3,6,9,12	3,6,9,12	3,6,9,12	3,6,9,12	3,6,9,12	3,6,9,12	3,6,9,12	7,9,12	7,12	7,12	6,9,12	3,6	3,6	3,6	3,6
Appendix I VOCs	6,9,12	6,9,12	1,6,9,12	6,9,12	6,9,12	6,9,12	1,6,9,12	6,9,12	1,6,9,12	6,9,12	7,9	7	7	9,12	6	6	6	6
Water Quality Indicators	3	3	3	3	3	3	3	3	3	3	7,9,12	7,12	7,12	6,9,12	3	3	3	3
Appendix I Inorganics	3	3	3	3	3	3	3	3	3	3	7,9,12	7,12	7,12	6,9,12	3	3	3	3
Thallium, Tin, Vanadium	6,9,12	6,9,12	6,9,12	6,9,12	6,9,12	6,9,12	6,9,12	6,9,12	6,9,12	6,9,12					3,6	3,6	3,6	3,6
Appendix II VOCs	3	3	3	3	3	3	3	3	3	3	12	12	12	6	3	3	3	3
BNAs	3	3	3	3	3	3	3	3	3	3	12	12	12	6	3	3	3	3
Pesticides	3	3	3	3	3	3	3	3	3	3	12	12	12	6	3	3	3	3
Herbicides	3	3	3	3	3	3	3	3	3	3	12	12	12	6	3	3	3	3

Notes:

Metal surrogates include pH, total dissolved solids, chloride, sulfate, and nitrate nitrogen as specified in RWQCB Order No. 93-062

Appendix I VOCs are volatile organic compounds listed in Appendix I to Title 40, Code of Federal Regulations, Part 258

Water quality indicators include conductivity, boron, calcium, magnesium, sodium, potassium, total alkalinity, bicarbonate alkalinity, ammonia nitrogen, soluble BOD, soluble COD, TOC, dissolved carbon dioxide, dissolved oxygen, total organic halogens, total and soluble iron, maganese, fluoride, total hardness, and oil and grease

Appendix I inorganics are inorganic compounds (cyanide, sulfide and 17 heavy metals including thallium, tin, and vanadium) listed in Appendix I to Title 40, Code of Federal Regulations, Part 258

Appendix II VOCs are volatile organic compounds listed in Appendix II to Title 40, Code of Federal Regulations, Part 258 and include Appendix I VOCs

BNAs are base neutral/acid extractable compounds listed in Appendix II to Title 40, Code of Federal Regulations, Part 258

Pesticides are listed in Appendix II to Title 40, Code of Federal Regulations, Part 258

Herbicides include organophosphorus compounds and are listed in Appendix II to Title 40, Code of Federal Regulations, Part 258

Numbers indicate the months in 1995 when the constituents of concern were analyzed

confirmed when these wells were retested in January 1995. As a result, the Sanitation Districts sampled all monitoring wells and analyzed for all constituents of concern in March 1995. The monitoring results indicate (1) the landfill has no effect on all detection monitoring wells except wells RMW6, M31A, and M33A; and (2) VOCs is the only water quality concern at RMW6, M31A, and M33A; general water quality indicator parameters, metals, base neutral/acid extractable compounds, pesticides, and herbicides are either not detected or detected at levels equivalent to background conditions. Based on a review of these monitoring data, the Districts concluded that the VOC detections in these wells are due to landfill gas contact with groundwater.

On May 30, 1995, the Sanitation Districts submitted *Amended Report of Waste Discharge - Evaluation Monitoring Program, Puente Hills Landfill* in which the Sanitation Districts proposed an Evaluation Monitoring Program (EMP) to satisfy the regulatory requirements in Title 23, Chapter 15, §2550.8(k)(5) and §2550.9, Code of California Regulations and Title 40, §258.55(g)(1)(ii), Code of Federal Regulations. The objective of the proposed EMP is to further characterize the nature and extent of the VOC present in groundwater. To achieve this goal, the Sanitation Districts acquired the services of a consultant, ENVIRON Corporation, to characterize geologic and groundwater flow conditions along Barriers 1, 2, and 3. Water quality data were also collected by the Sanitation Districts during the time off this comprehensive study. This study began in August 1994 and a final report for the study is expected to be completed in June 1996. The Sanitation Districts will evaluate the results from the study and propose additional monitoring wells, if necessary, to meet the EMP requirements. An amended report of waste discharge will be prepared by the Sanitation Districts in 1996 for this purpose. In the interim, the Sanitation Districts monitored RMW6, M31A, and M33A as evaluation monitoring wells during 1995. The Sanitation Districts also proposed to monitor an existing offsite monitoring well, M16A. This well is located hydraulically downgradient of the Puente Hills Landfill approximately 1,200 feet from the landfill boundary. This well was installed in 1987 for the statewide Solid Waste Assessment Test program. Any water quality effect on downgradient groundwater quality caused by the Puente Hills Landfill will be indicated by this well. However, since it is located in the San Gabriel Groundwater Basin, where groundwater contamination by industries is widely documented and is being investigated by both the RWQCB and the United States Environmental Protection Agency, there is a potential that M16A may be affected by industrial contamination not related to the Puente Hills Landfill.

3.1.2.2 Monitoring Program

The monitoring parameters analyzed for the EMP wells and monitoring frequency in 1995 are summarized in Table 4. For well M16A, the Sanitation Districts performed a constituents of concern scan in June. The results indicated that general parameters, metals, base neutral/acid extractable compounds, pesticides, and herbicides are not water quality concerns at this well. Therefore the Sanitation Districts will monitor this well for metal surrogates and Appendix I VOCs on a quarterly basis. As for wells RMW6, M31A, and M33A, the Sanitation Districts also monitored the metal surrogates and Appendix I VOCs on a quarterly basis since other constituents of concern were either not detected or detected at levels equivalent to background during the March constituents of concern scan.

3.2 SURFACE WATER

The Puente Hills Landfill drainage system consists of graded benches, drainage channels, debris basins, and downdrains. The surface water drainage system minimizes surface water infiltration, ponding, and slope erosion by providing a means for rainfall runoff to be diverted from the front face and top deck of the landfill and channeled into desilting basins, and eventually, into storm drains. The surface water drainage system is depicted on Exhibit 11. In 1995, the drainage system functioned effectively as designed.

In 1992, the Sanitation Districts prepared a Storm Water Pollution Prevention Plan (SWPPP) for the Puente Hills Landfill pursuant to the California General Permit requirements for compliance with the National Pollutant Discharge Elimination System (NPDES) rules. The SWPPP calls for the use of best management practices to minimize the potential for runoff contamination by landfill operations. To fulfill the requirements of the General Permit and to determine the effectiveness of the SWPPP, the Sanitation Districts developed a runoff monitoring program in December 1992. The implementation of this program began in 1993 and continued during 1995. The runoff monitoring program was also designed to comply with the requirements in Title 23, Chapter 15, Article 5 of the California Code of Regulations. Details of the monitoring program including the monitoring system and monitoring parameters are included in the Subtitle D Report.

The surface water monitoring system consists of nine monitoring locations where runoff samples are collected. Of these nine monitoring locations, one (SDB) background monitoring point collects runoff not contacted by landfill operations. The Main Canyon area has six downgradient monitoring points (SD1, SD2, SD3, SD4, SD5, and SD10). The Canyon 9 area has one downgradient monitoring location (SD9). The Eastern Canyons expansion area currently has one downgradient monitoring location (SD11).

During 1995, two sets of runoff samples were collected from locations SD1, SD2, and SD9; and two sets of samples were collected from locations SDB, SD3, SD4, SD5, SD10, and SD11. The samples were analyzed for total and filtered metals, VOCs, and other selected general parameters, pesticides, and base neutral/acid extractable compounds.

3.3 LIQUID COLLECTION AND REMOVAL SYSTEM (LCRS)

Liquid collection and removal systems (LCRS) were installed as part of the composite liner systems for Canyon 9 and the Eastern Canyons expansion area of the Puente Hills Landfill. Water collected from both LCRS is combined with landfill gas condensate and treated in an air stripper before being discharged to the sewer system pursuant to the site's industrial waste discharge permits. The monthly LCRS pumping rates for the Canyon 9 and Eastern Canyons LCRS are presented in Table 5. These systems functioned effectively in 1995.

The Canyon 9 LCRS was sampled in April and October 1995. The Eastern Canyons LCRS became operational in July 1995 and was first sampled in October 1995. The samples were analyzed for all constituents of concern. Semi-annual sampling of the LCRS liquid is scheduled in April and

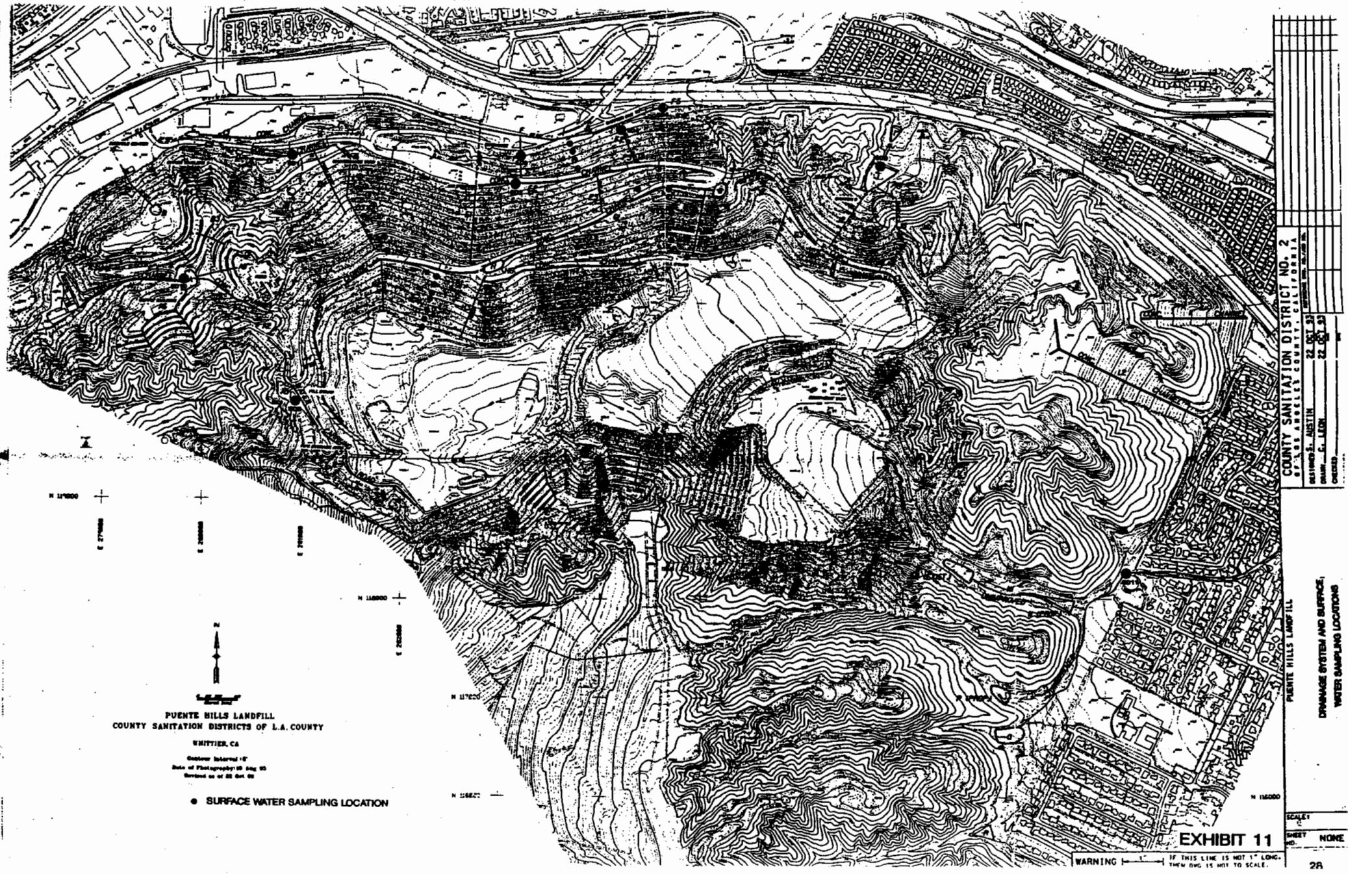

PUENTE HILLS LANDFILL
COUNTY SANITATION DISTRICTS OF L.A. COUNTY
WHITTIER, CA
SURFACE WATER SAMPLING LOCATION
COUNTY SANITATION DISTRICT NO. 2
OF LOS ANGELES COUNTY, CALIFORNIA
DESIGNED S. AUSTIN 22 OCT 93
DRAWN C. LEON 22 OCT 93
CHECKED
PUENTE HILLS LANDFILL
DRAINAGE SYSTEM AND SURFACE WATER SAMPLING LOCATIONS
SCALE NONE
SHEET NO. 28
EXHIBIT 11
WARNING 1" IF THIS LINE IS NOT 1" LONG, THEN DWG IS NOT TO SCALE.

TABLE 5
1995 LCRS FLOW RATES AND BARRIER EXTRACTION RATES
PUENTE HILLS LANDFILL

Month	Canyon 9 LCRS (gallons)	Eastern Canyons LCRS [1] (gallons)	Barrier 1 (gallons)	Barrier 3 (gallons)	Barrier 4 [1] (gallons)
January	17,043		144,420	329,889	
February	14,791		153,351	362,859	
March	27,630		170,772	387,769	
April	24,624		71,782	513,577	
May	18,756		56,469	484,542	
June	17,825		279,892	578,877	
July	14,877	13,950	247,192	597,062	62,000
August	18,285	13,950	334,011	588,050	62,000
September	14,970	13,500	210,053	372,709	0 [2]
October	14,203	13,289	240,231	405,736	51,509
November	14,428	8,634	239,367	413,680	72,279
December	14,755	100,669	245,612	406,404	54,225
Total	212,187	163,992	2,393,152	5,441,154	302,013

(1) Extraction of canyon water at Barrier 4 and liquids collection from the Eastern Canyons LCRS began in July 1995.

(2) During the month of September 1995, there was no extraction of canyon water at Barrier 4 because of construction activities.

During the second quarter of 1995, the Puente Hills Landfill began accepting lime cake sludge generated at the West Basin Reclamation Plant operated by the West Basin Municipal Water District. During 1995, the Puente Hills Landfill accepted 5,217 tons of lime cake sludge from the West Basin Reclamation Plant. The West Basin Municipal Water District tests the sludge quarterly; and results for the sludge analyses have been separately reported by the West Basin Municipal Water District to the RWQCB in quarterly monitoring reports and are not included in this annual report.

Treated incinerator ash from Commerce Refuse to Energy Facility (Commerce) and the Southeast Resources Recovery Facility (SERRF) located in Long Beach was disposed at the Puente Hills Landfill during 1995. All incinerator ash accepted at the Puente Hills Landfill during 1995 was treated by a solidification/stabilization process. This process forms a concrete or aggregate like material designed to conform with applicable water quality objectives. Treated ash has been classified as a nonhazardous waste by the California Department of Toxic Substances Control.

In accordance with MRP No. 7336, the treated ash from Commerce and SERRF was analyzed by the Waste Extraction Test (WET) with citrate buffer and deionized water extraction on a quarterly basis. These results and disposal summaries have been separately submitted to RWQCB in quarterly monitoring reports and are not included in this annual report.

4.0 WATER QUALITY MONITORING RESULTS

During 1995, the following water quality monitoring facilities were monitored:

- Barrier 1 downgradient monitoring wells MW4, MW5, RMW6, and MW10;
- Barrier 2 downgradient monitoring wells M24A, M27B, M28A, M29B, and M30B;
- Barrier 3 downgradient monitoring wells M31A, R32B, M33A, and R34B;
- Barrier 4 downgradient monitoring wells M41A, M42A, M43A;
- Background monitoring wells M17A, M18A, M19B, and M23A (first two quarters);
- Offsite monitoring well M16A (quarterly starting in the second quarter);
- Runoff monitoring locations (SD1, SD2, SD3, SD4, SD5, SD9, SD10, SD11, and SDB);
- Canyon 9 liquid collection and removal system (LCRS) and the Eastern Canyons LCRS (LCS2); and
- Reused water from the Barrier 4 extraction wells.

Exhibits 9 through 11 show the locations of these monitoring facilities. As discussed in Section 3.5, the Sanitation Districts also monitored treated incinerator ash and digested sewage sludge disposed of at the Puente Hills Landfill in 1995. These results have been submitted to the RWQCB in quarterly monitoring reports and are not included in this annual report.

This section discusses primarily the monitoring results obtained from the groundwater and surface water monitoring program. All monitoring data presented in this annual report have previously been submitted to the RWQCB in quarterly monitoring reports and the semi-annual constituents of concern monitoring reports for the LCRS.

4.1 MONITORING DATA SUMMARY

Water quality monitoring results for 1995 are presented in the Appendix (Tables A.1 through A.10) of this report. The Appendix includes in tabular form, the data collected from each monitoring facility. In addition, graphs presenting five years of data for each constituent at each groundwater monitoring or compliance well are included pursuant to the requirement in Order No. 93-062. For each well, graphs were prepared for constituents which were analyzed for during 1995. If there were no detections of that particular constituent at that particular well during 1995, the graph was not plotted unless the constituent was detected at or above the detection limit in at least two monitoring periods since 1991. The tabulated data is grouped as follows:

- Barrier 1 downgradient monitoring wells (MW4, MW5, and RMW6; MW10 was dry in 1995);
- Barrier 2 downgradient monitoring wells (M24A, M27B, and M29B; M28A and M30B were dry);
- Barrier 3 downgradient monitoring wells (M31A, R32B, M33A, and R34B);
- Barrier 4 downgradient monitoring wells (M41A, M42A, and M43A);
- Background monitoring wells (M17A, M18A, M19B, and M23A);
- Offsite monitoring wells (M16A);
- Liquid collection and removal systems (LCRS for Canyon 9 and LCS2 for Eastern Canyons);
- Surface runoff monitoring locations (SDB, SD1, SD2, SD3, SD4, SD5, SD9, SD10, and SD11);
- Reused water; and
- Equipment and trip blanks (BLNK or EQIP).

A computer diskette containing all monitoring results collected in 1995 is included with the transmittal of this report to the RWQCB. The data are in the Microsoft® Excel version 5.0 format. Incomplete analyses were the result of insufficient sample volume. Laboratory analyses, including laboratory methods and method detection limits (MDL), followed the program outlined in the Subtitle D Report and two Sanitation Districts' transmittals to the RWQCB on September 22, 1994 and November 21, 1994 regarding this issue. Changes in the method detection limits are a result of matrix interference or changes in the regulatory MDL. All laboratory analyses were conducted at laboratories certified by the California Department of Health Services Environmental Laboratory Accreditation Program for such analyses. Laboratory analyses follow the methods approved by the United States Environmental Protection Agency.

4.2 GROUNDWATER MONITORING RESULTS

Water quality parameters are discussed according to the following categories: (1) general parameters (pH, conductivity, suspended solids, total dissolved solids, hardness, cations, anions, and organic matter); (2) metals; (3) volatile organic compounds; and (4) base neutral/acid extractable compounds, pesticides, and herbicides. Data are analyzed to identify statistical outliers which may be due to sampling anomalies or laboratory errors. Outliers are included in this report and are

presented in tabular and graphical data summary, but are excluded from further evaluation or statistical analyses.

In the following discussion of site water quality, monitoring results from 1995 are compared against the statistically derived concentration limits and the range of background water quality conditions, both summarized in Tables 2 and 3 in Section 3.1.1.1. It is assumed that there is no naturally occurring anthropogenic constituents of concern in site background groundwater.

4.2.1 General Parameters

During 1995, the levels of all monitored general parameters were within the concentration limits listed in Table 3 except the following:

(1) Field pH at RMW6 and M31A in January 1995 and at M24A in March 1996;
(2) TDS and sulfate at M24A in December 1995;
(3) Manganese at RMW6, M31A, and M33A, all in March 1995;
(4) Total and bicarbonate alkalinity at M31A in March 1995;
(5) Ammonia nitrogen at R32B in March, September, and December, 1995 and at R34B in March, June, September, and December; and
(6) Oil and grease at R32B in March 1995.

The field pH levels at RMW6 and M31A in January 1995 and at M24A in March 1995 were lower than the calculated concentration limits, but were higher than the results from the background wells. Subsequent monitoring at these wells obtained field pH values higher than the concentration limits for the remainder of the 1995. Therefore, the low field pH levels at these wells do not indicate landfill effects on ground water quality.

The December 1995 TDS and sulfate levels at M24A were slightly higher than the calculated concentration limits, but were much lower than the results from the experimental studies. There were no detection of other water quality parameters indicative of landfill effect, such as volatile organic compounds, at this well. Therefore, the elevated TDS and sulfate levels are due to natural fluctuation of groundwater quality.

In March 1995, manganese levels at RMW6, M31A, and M33A were above the proposed concentration limits, but were much lower than the background levels established from the experimental studies and the background wells. This was a one time occurrence; manganese concentrations at these wells were lower than the concentration limits for the rest of 1995. Therefore, the elevated manganese levels at these wells do not indicate landfill effect on ground water quality.

Similarly, alkalinity levels at M31A were detected above the proposed concentration limits in March 1995, but the levels were much lower than the background levels established from the background wells. This was a one time occurrence; subsequent monitoring at this well for the rest

of 1995 resulted in alkalinity concentrations lower than the concentration limits. Therefore, the elevated alkalinity levels at M31A do not indicate landfill effect on ground water quality.

Ammonia was detected at R32B and R34B at levels above the proposed concentration limits during most of the 1995 monitoring period. The detected levels, however, were lower than the maximum background levels observed from the background wells (3.5 mg/L) or established through the experimental studies (6.7 mg/L). There were no indications of any landfill effects, such as detections of volatile organic compounds or high levels of leachate indicator parameters (such as BOD, COD, or TOC), at these two wells. Therefore, the Sanitation Districts believe the observed ammonia nitrogen at these wells are naturally occurring.

Oil and grease was detected once (in March) at R32B at a level slightly above the proposed concentration limit, but lower than the maximum background concentration. Subsequent monitoring in 1995 did not confirm this level. In addition, there were no indications of any landfill effects at this well, as discussed above.

In conclusion, the 1995 monitoring results for general parameters indicate that all general parameters were detected at levels within the range of background water quality conditions. The monitoring results do not indicate any leachate release from the Puente Hills Landfill.

4.2.2 Metals

Routine monitoring of metals at the Puente Hills Landfill is not necessary according to RWQCB Order No. 93-062. Metals, however, are constituents of concern that need to be occasionally analyzed. Metals analyzed during 1995 include arsenic, antimony, barium, beryllium, cadmium, total chromium, cobalt, copper, iron, lead, mercury, nickel, selenium, silver, thallium, tin, vanadium, and zinc. Both unfiltered and field filtered water samples were collected and were analyzed for total and dissolved heavy metals, respectively. Because the geologic formations being monitored contain high silt and clay contents, high levels of suspended solids were often present in the groundwater samples. The suspended solids in the groundwater samples consist of marine clays and silts which naturally contain metals from the erosion of feldspar and ferromagnesium parent rocks. These minerals undergo weathering processes and a small fraction of their associated metals dissolve. The degree of solubilization depends on the solubility of the metal and the surrounding physical and chemical conditions. The undissolved metals remain associated with the sediment. Because of the low solubility of the metals, a small amount of suspended solids in a groundwater sample will "mask" the dissolved constituent levels when the total metal concentration is analyzed using an unfiltered sample. Therefore, the results of total metal concentration analyses are merely a reflection of the suspended solids levels in the groundwater and will not indicate actual changes in groundwater chemistry which potentially results from the landfill. For this reason, the evaluation of metals analysis results uses primarily filtered metals concentrations for any indication of landfill impact on groundwater quality.

Water quality analysis results for metals indicate that there was no release of heavy metals from the Puente Hills Landfill. During 1995, concentrations of all metals downgradient of the site

were below the proposed concentration limits except for barium at M31A and zinc at M24A. Barium was detected at M31A above the proposed concentration limit in March 1995, but within the range of site background water quality as defined by the background wells and the 1993 mineral leaching study. The detection of zinc at M24A is highly unusual because the detected level exceeds both the proposed concentration limit and the site background water quality. Review of historic zinc level at this well indicates that the concentration has increased from 0.02 mg/L in September 1994 to 2.88 mg/l in March 1995. No other monitored water quality indicator parameters at this well have shown any significant change during the same period. In addition, two monitoring wells adjacent to M24A, M27B and M29B, have not detected any elevated zinc level. Furthermore, the maximum filtered zinc concentration detected in samples collected from the Canyon 9 Liquid Collection and Removal System is 0.58 mg/L, which is significantly lower than the level observed in M24A. These observations suggest that the zinc level at M24A is not due to the refuse in the landfill.

The possible source of the elevated zinc level was investigated by the Sanitation Districts. The Sanitation Districts used a downhole video camera to inspect the integrity of M24A in July 1995. Results of this inspection confirmed the presence of a foreign object inside the well screen. However, the object could not be removed from the well. The Sanitation Districts therefore will continue monitoring this well, but discontinue analyzing for zinc.

The total and field filtered metal concentrations were very similar for all samples collected in 1995. The Sanitation Districts believe that this is because of the "micropurge" procedure implemented before sample collection. The micropurge procedure is described in *Revised Sampling and Analysis Plan, Puente Hills Landfill*, submitted to the RWQCB on August 10, 1995. This procedure involves purging monitoring wells at very slow purging rates, thereby minimizing the turbulence in the wells and the levels of suspended solids. As a result, the effect of suspended solids on metal concentrations is minimized.

4.2.3 Volatile Organic Compounds

Historically, volatile organic compounds (VOCs) have not consistently been detected in monitoring wells downgradient of the Puente Hills Landfill except for monitoring well RMW6 downgradient of Barrier 1 and the two alluvial wells downgradient of Barrier 3 (M31A and M33A). VOCs have not been detected at any of the monitoring wells downgradient of Barrier 2 or in background wells. Monitoring results for VOCs in 1995 were consistent with these historical results. Two VOCs, vinyl chloride and cis-1,2-dichloroethylene, were detected in well M27B in the third quarter of 1995. However, these detections were not confirmed upon retest.

Low levels of VOCs were detected at RMW6 in 1995. The detected VOCs included tetrachloroethylene, trichloroethylene , cis-1,2 dichloroethylene, vinyl chloride, 1,1 dichloroethane, 1,2 dichloroethane, dichlorobenzene, p-dichlorobenzene, and occasionally, toluene. At M31A and M33A, the most frequently detected VOCs were 1,2 dichloroethane, vinyl chloride, and cis-1,2 dichloroethylene. The Sanitation Districts believe the VOCs detections are due to landfill gas contact with groundwater. As a result of the VOCs detections, the Sanitation Districts submitted *Amended Report of Waste Discharge - Evaluation Monitoring Program, Puente Hills Landfill* to the

RWQCB on May 30, 1995 proposing an evaluation monitoring program for the Main Canyon portion of the landfill. The Sanitation Districts were also conducting a hydrogeologic investigation to characterize groundwater flow in the vicinity of the Puente Hills Landfill such that the extent of these VOCs detections can be better defined.

In addition, the Sanitation Districts proposed to routinely monitor offsite monitoring well M16A beginning in June 1995 as part of the interim evaluation monitoring program. Monitoring results from this well can be used to determine the potential effects from the Puente Hills Landfill on downgradient groundwater resources. Monitoring data collected in 1995 from this well indicated that this well was not affected by the Puente Hills Landfill, but was affected by the contaminants in the San Gabriel Groundwater Basin. Several VOCs commonly found in the San Gabriel Groundwater Basin due to industrial activities were detected at M16A. These VOCs included tetrachloroethylene, 1,1-dichloroethylene, 1,1 dichloroethane, and 1,1,1-trichloroethane. The VOCs detected at onsite monitoring wells RMW6, M31A, and M33A, however, were typically not detected at M16A.

The Sanitation Districts began monitoring wells M41A, M42A, and M43A in the Eastern Canyons expansion area in July 1995. No VOCs were detected from any of these wells since monitoring began, indicating the effectiveness of the Eastern Canyons groundwater protection systems.

4.2.4 Base Neutral/Acid Extractable (BNA) Compounds, Pesticides, and Herbicides

There were no water quality concerns related to the BNA compounds, pesticides, or herbicides based on the 1995 monitoring data. Diethylhexyl phthalate was the only compound detected in the water quality samples. Phthalates are widely used plasticizers and are commonly found in laboratory control blanks. The detection of this compound is therefore not indicative of landfill effect.

4.3 SURFACE WATER MONITORING RESULTS

The surface runoff monitoring consists of obtaining runoff water samples at locations SDB, SD1, SD2, SD3, SD4, SD5, SD9, SD10, and SD11. The results for the surface runoff monitoring for 1995 are presented in Table A.8. The concentrations of general parameters and metals found in the surface runoff samples were comparable to water that had been in contact with typical surface soils. During 1995, there were no pesticide detections in the surface runoff samples except for one detection of lindane at runoff location SD1 with a concentration of 0.02 ug/l. This detection is below the regulatory limits (the drinking water standard for lindane is 0.2 ug/l) and is therefore not a water quality concern. During 1995, there were no VOC or BNA detections in the surface runoff samples. The monitoring results do not indicate surface runoff is affected by the Puente Hills Landfill.

5.0 COMPLIANCE RECORD

RWQCB Order No. 93-062, §13(B)(2)(c) requires a comprehensive discussion of the compliance record, and of any corrective actions taken or planned which may be needed to bring the discharger into full compliance with the landfill's waste discharge requirements. As discussed in Section 1.0, operations at the Puente Hills Landfill follow the conditions specified in various waste discharge requirements and monitoring and reporting programs issued by the RWQCB. In 1995, the Sanitation Districts were in full compliance with these conditions. This section discusses the Sanitation Districts' compliance with these operating conditions.

The site specific waste discharge requirements, monitoring and reporting program, and Order No. 93-062 include the following elements, respectively:

Waste Discharge Requirements (WDRs) Order Nos. 90-046, 91-035, 93-070, and 94-103:

A. Acceptable Materials;
B. Unacceptable Wastes;
C. Ground Water Protection Standards;
D. Requirements for Disposal Site Operations;
E. Provisions for Onsite Use of Extracted Wastewater;
F. Provisions for Water Quality Monitoring;
G. Provisions for Containment Structures;
H. Provisions for Reporting Scheduled Activities; and
I. General Provisions.

Monitoring and Reporting Program Nos. 2294 and 7336:

I. General Reporting Requirements;
II. Waste Disposal Reporting Requirements;
III. Ground Water Monitoring;
IV. Barrier Extraction Well Monitoring; and
V. Monitoring of Extracted Wastewater Proposed for Use Onsite.

RWQCB Order No. 93-062 (or referred to as *Standard Provisions for Implementing Subtitle D*):

1. Definitions;
2. 100-year Floodplain;
3. Documenting the Landfill's Existing Footprint;
4. MSW Landfill on or Adjoining Wetlands;
5. Liquid Acceptance;
6. Containment System Installed Beyond the Existing Footprint;
7. Water Quality Protection Standard;
8. Monitoring Parameters;
9. Constituents of Concern (COCs) for Landfills Lacking a Functioning LCRS;

10. Constituents of Concern (COCs) for Landfills Having a Functioning LCRS;
11. Concentration Limits;
12. Detection Monitoring Program (DMP) Under Revised Article 5;
13. Closure/Post-closure Plan; and
14. Deed Notation at MSW Landfills.

The requirements that are applicable for the operations of the Puente Hills Landfill during 1995 can be summarized into three major categories:

(1) Landfill operations: Conditions A, B, D in site specific WDRs and Condition 5 in Order No. 93-062;
(2) Water quality monitoring and response program: Conditions C, E, F in site specific WDRs, all conditions in Monitoring and Reporting Program Nos. 2294 and 7336, and Conditions 7 through 12 in Order No. 93-062; and
(3) Containment systems: Condition G in site specific WDRs and Condition 6 in Order No. 93-062.

The Sanitation Districts' compliance with these conditions in 1995 is discussed below:

5.1 LANDFILL OPERATIONS

During 1995, the Puente Hills Landfill accepted only nonhazardous solid wastes, inert solid wastes, dewatered sewage sludge, water treatment sludge, and treated municipal solid waste incinerator ash. As discussed in Sections 3.4 and 3.5 of this report, dewatered sludge from the Sanitation Districts' Joint Water Pollution Control Plant and treated incinerator ash from Commerce Refuse-to-Energy Facility and Southeast Resource Recovery Facility were tested in 1995; the monitoring results indicate that the these wastes meet the disposal requirements in WDR Order Nos. 91-035 and 93-070. The minimum solids-to-liquids ratio of 5:1 by weight was always maintained in 1995. In fact, the typical solids-to-liquids ratio at the Puente Hills Landfill during 1995 was over 20:1. The site did not accept any of the unacceptable wastes specified in WDR Order Nos. 91-035 or 93-070.

Landfill gas condensate is collected at the Puente Hills Landfill, treated, and discharged to the sewer system pursuant to industrial waste discharge permits for the site. Liquid collected from the Canyon 9 LCRS is pumped into the condensate system, treated, and discharged, while liquid collected from the Eastern Canyons LCRS is discharged directly to the sewer system. In 1995, the quality of the discharged wastewater met the discharge requirements specified in the industrial waste discharge permits. No LCRS liquid or condensate was reused on site in 1995.

The Sanitation Districts operate the Puente Hills Landfill in accordance with all other requirements for disposal site operations set forth in the WDR Order Nos. 90-046 and 93-070. A periodic waste-load checking program has been implemented at the landfill to ensure that unauthorized hazardous materials are not disposed at the landfill. Surface water drainage controls are installed at the landfill to adequately divert rainfall runoff away from the site to prevent ponding

APPENDIX

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL, 1995

TABLE A.1

WATER QUALITY DATA

BARRIER 1 MONITORING WELLS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ92682 03/01/95	WELL MW4 SJ97313 06/13/95	WELL MW4 SJ01357 09/13/95	WELL MW4 SJ05116 12/11/95
FIELD PARAMETERS					
DEPTH TO WATER	FT	43.65	42.93	44.25	43.39
DEPTH TO BOTTOM	FT	44.58	44.45	45.13	44.61
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	16	14	20	17
FIELD WATER TEMPERATURE	DEG C		24.0	27.9	19.3
FIELD PH	PH		6.70	6.76	6.62
FIELD CONDUCTIVITY	UMHOS/CM		2470	1824	2120
FIELD DISSOLVED O2	MG/L		2.20	4.5	3
DISSOLVED CO2	MG/L		73.6	47.9	80.8
GENERAL					
PH	PH		6.92	7.04	7.01
TOTAL DISSOLVED SOLIDS	MG/L		1968	1430	1673
ANIONS					
NITRATE NITROGEN	MG/L N		2.39 A	3.82 A	4.35 A
SULFATE	MG/L SO4		892 A	516 A	732 A
CHLORIDE	MG/L CL		161 A	123 A	120 A
METALS					
THALLIUM	MG/L TL		<0.002		<0.002
TIN	MG/L SN		< 0.06		< 0.06
VANADIUM	MG/L V		0.07		< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	< 100			
BROMOCHLOROMETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
CHLOROPRENE	UG/L	< 1000			
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 1.0	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.5			
2,2-DICHLOROPROPANE	UG/L	< 0.5			
1,1-DICHLOROPROPENE	UG/L	< 0.5			
ISOBUTYL ALCOHOL	UG/L	< 100			
METHACRYLONITRILE	UG/L	< 10			

FOOTNOTES : A-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ92682 03/01/95	WELL MW4 SJ97313 06/13/95	WELL MW4 SJ01357 09/13/95	WELL MW4 SJ05116 12/11/95
VOLATILE ORGANIC COMPOUNDS					
METHYL IODIDE	UG/L	< 0.5	< 1.0	< 1	< 1
METHYLENE BROMIDE	UG/L	< 0.5	< 1.0	< 1	< 1
PROPIONITRILE	UG/L	< 20			
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1.0	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10			
ETHYL METHACRYLATE	UG/L	< 10			
METHYLENE CHLORIDE	UG/L	< 3	< 1.0	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 1.0	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1.0	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 1.0	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 0.5			
P-DICHLOROBENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1.0	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10.0	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1.0	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1.0	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1.0	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1			
CHLOROMETHANE	UG/L	< 1	< 1.0	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1.0	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1.0	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1.0	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200			
ACRYLONITRILE	UG/L	< 50	< 10.0	< 10	< 10

FOOTNOTES : A-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ92682 03/01/95	WELL MW4 SJ97313 06/13/95	WELL MW4 SJ01357 09/13/95	WELL MW4 SJ05116 12/11/95
VOLATILE ORGANIC COMPOUNDS					
ACETONITRILE	UG/L	< 100			
FREON 12 (CCL2F2)	UG/L	< 0.5			
FREON 11 (CCL3F)	UG/L	< 1	< 1.0	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10.0	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10.0	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10.0	< 10	< 10
STYRENE	UG/L	< 0.5	< 1.0	< 1	< 1
M+P-XYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 0.5	< 1.0	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 10	< 5.0	< 5	< 5

FOOTNOTES : A-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI MW4 SJ97311 06/13/95	WEFI MW4 SJ05114 12/11/95
METALS			
THALLIUM	MG/L TL	<0.002	<0.002
TIN	MG/L SN	< 0.06 A	< 0.06 A
VANADIUM	MG/L V	< 0.05 A	< 0.05 A

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ92683 03/01/95	WELL MW5 SJ97314 06/13/95	WELL MW5 SJ01361 09/13/95	WELL MW5 SJ05117 12/11/95
FIELD PARAMETERS					
DEPTH TO WATER	FT	59.78	58.20	58.63	59.04
DEPTH TO BOTTOM	FT	61.66	61.53	61.57	61.7
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	19	17	19
FIELD WATER TEMPERATURE	DEG C		23.8	22	19.8
FIELD PH	PH		7.58	7.84	7.61
FIELD CONDUCTIVITY	UMHOS/CM		915	871	961
FIELD DISSOLVED O2	MG/L		2.35	0.8	2.56
DISSOLVED CO2	MG/L		5.0	11.1	39.6
GENERAL					
PH	PH		7.92	7.82	7.93
TOTAL DISSOLVED SOLIDS	MG/L		573	530	604 C
TOTAL CYANIDE	MG/L CN	<0.002			
BORON	MG/L B	0.22			
ANIONS					
NITRATE NITROGEN	MG/L N		0.69 B	0.06 B	0.06 B
SULFATE	MG/L SO4		140 B	111 B	93.6 B
CHLORIDE	MG/L CL		58.9 B	36.4 B	47.6 B
FLUORIDE	MG/L F	0.92			
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.2			
OIL & GREASE	MG/L EXTRAC	< 0.9			
TOTAL ORGANIC HALOGEN(TOX	UG/L	50			
METALS					
THALLIUM	MG/L TL		<0.002	<0.002	<0.002
TIN	MG/L SN		< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V		0.05	0.64	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
PP'-DDE	UG/L	< 0.01			

FOOTNOTES : A-ND = NONE DETECTED B-AVERAGE C-DUP & SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ92683 03/01/95	WELL MW5 SJ97314 06/13/95	WELL MW5 SJ01361 09/13/95	WELL MW5 SJ05117 12/11/95						
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDD	UG/L	< 0.01									
PP'-DDT	UG/L	< 0.01									
ALPHA-BHC	UG/L	< 0.01									
LINDANE (GAMMA-BHC)	UG/L	< 0.01									
HEPTACHLOR	UG/L	< 0.01									
HEPTACHLOR EPOXIDE	UG/L	< 0.01									
ALDRIN	UG/L	< 0.01									
DIELDRIN	UG/L	< 0.01									
ENDRIN	UG/L	< 0.01									
TOXAPHENE	UG/L	< 0.5									
METHOXYCLOR	UG/L	< 0.01									
AROCLOR 1242	UG/L	< 0.1									
AROCLOR 1254	UG/L	< 0.05									
BETA-BHC	UG/L	< 0.01									
DELTA-BHC	UG/L	< 0.01									
ENDOSULFAN I	UG/L	< 0.01									
ENDOSULFAN II	UG/L	< 0.01									
ENDOSULFAN SULFATE	UG/L	< 0.1									
ENDRIN ALDEHYDE	UG/L	< 0.01									
AROCLOR 1016	UG/L	< 0.1									
AROCLOR 1221	UG/L	< 0.1									
AROCLOR 1232	UG/L	< 0.1									
AROCLOR 1248	UG/L	< 0.1									
AROCLOR 1260	UG/L	< 0.1									
TECHNICAL CHLORDANE	UG/L	< 0.05 A									
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L	< 100									
BROMOCHLOROMETHANE	UG/L	< 0.5	< 1.0	< 1	< 1						
CHLOROPRENE	UG/L	< 1000									
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 1.0	< 1	< 1						
1,3-DICHLOROPROPANE	UG/L	< 0.5									
2,2-DICHLOROPROPANE	UG/L	< 0.5									
1,1-DICHLOROPROPENE	UG/L	< 0.5									
ISOBUTYL ALCOHOL	UG/L	< 100									
METHACRYLONITRILE	UG/L	< 10									
METHYL IODIDE	UG/L	< 0.5	< 1.0	< 1	< 1						
METHYLENE BROMIDE	UG/L	< 0.5	< 1.0	< 1	< 1						
PROPIONITRILE	UG/L	< 20									

FOOTNOTES : A-ND = NONE DETECTED B-AVERAGE C-DUP & SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ92683 03/01/95	WELL MW5 SJ97314 06/13/95	WELL MW5 SJ01361 09/13/95	WELL MW5 SJ05117 12/11/95
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1.0	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10			
ETHYL METHACRYLATE	UG/L	< 10			
METHYLENE CHLORIDE	UG/L	< 3	< 1.0	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 1.0	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1.0	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 1.0	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 0.5			
P-DICHLOROBENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1.0	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1.0	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1.0	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10.0	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1.0	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1.0	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1.0	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1			
CHLOROMETHANE	UG/L	< 1	< 1.0	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1.0	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1.0	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1.0	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200			
ACRYLONITRILE	UG/L	< 50	< 10.0	< 10	< 10
ACETONITRILE	UG/L	< 100			
FREON 12 (CCL2F2)	UG/L	< 0.5			
FREON 11 (CCL3F)	UG/L	< 1	< 1.0	< 1	< 1

FOOTNOTES : A-ND = NONE DETECTED B-AVERAGE C-DUP & SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ92683 03/01/95	WELL MW5 SJ97314 06/13/95	WELL MW5 SJ01361 09/13/95	WELL MW5 SJ05117 12/11/95
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10.0	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10.0	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10.0	< 10	< 10
STYRENE	UG/L	< 0.5	< 1.0	< 1	< 1
M+P-XYLENE	UG/L	< 0.5	< 1.0	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 0.5	< 1.0	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 10	< 5.0	< 5	< 5

FOOTNOTES : A-ND = NONE DETECTED B-AVERAGE C-DUP & SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI MW5 SJ97312 06/13/95	WEFI MW5 SJ01360 09/13/95	WEFI MW5 SJ05115 12/11/95
METALS				
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 A
TIN	MG/L SN	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ91274 01/31/95	WELL RMW6 SJ92681 03/01/95	WELL RMW6 SJ97607 06/19/95	WELL RMW6 SJ97608 06/19/95	WELL RMW6 SJ01560 09/18/95	WELL RMW6 SJ05165 12/12/95
FIELD PARAMETERS							
DEPTH TO WATER	FT	53.00		52.58		53.96	53.56
DEPTH TO BOTTOM	FT						90.87
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	19	19		20	21
FIELD WATER TEMPERATURE	DEG C	22.28	21.99	22.88		22.38	21.93
FIELD PH	PH	6.38	6.53	6.51		6.67	6.61
FIELD CONDUCTIVITY	UMHOS/CM	2358	2281	2343		2633	2867
FIELD DISSOLVED O2	MG/L	1.21	0.33	2.81		1.5	0.53
DISSOLVED CO2	MG/L		234				
GENERAL							
PH	PH		7.28	7.24	7.18	6.90	7.47
CONDUCTIVITY	UMHOS/CM		2250				
TOTAL DISSOLVED SOLIDS	MG/L		1725 A	1772	1767 A	2067	2203
TOTAL HARDNESS	MG/L CACO3		1042				
TOTAL CYANIDE	MG/L CN		<0.002				
BORON	MG/L B		0.59				
ANIONS							
NITRATE NITROGEN	MG/L N		< 0.02 B	< 0.02 E	< 0.02 E	< 0.02 E	< 0.02 E
SULFATE	MG/L SO4		735 B	749 E	748 E	833 E	917 E
CHLORIDE	MG/L CL		119 B	120 E	120 E	140 E	148 E
TOTAL ALKALINITY	MG/L CACO3		451				
BICARBONATE ALKALINITY	MG/L CACO3		451				
TOTAL SULFIDE	MG/L S		< 0.1				
FLUORIDE	MG/L F		0.73				
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3		552				
MAGNESIUM-HARDNESS	MG/L CACO3		490				
SODIUM	MG/L NA		155				
POTASSIUM	MG/L K		6.0				
IRON	MG/L FE		0.24				
MANGANESE	MG/L MN		5.73				
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N		< 0.2				

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ91274 01/31/95	WELL RMW6 SJ92681 03/01/95	WELL RMW6 SJ97607 06/19/95	WELL RMW6 SJ97608 06/19/95	WELL RMW6 SJ01560 09/18/95	WELL RMW6 SJ05165 12/12/95
ORGANIC MATTER							
TOTAL BOD	MG/L O		< 0.7				
SOLUBLE BOD	MG/L O		< 0.7				
TOTAL COD	MG/L O		5.0 A				
SOLUBLE COD	MG/L O		5.0				
TOTAL ORGANIC CARBON	MG/L C		1.7				
OIL & GREASE	MG/L EXTRAC		< 0.9				
TOTAL ORGANIC HALOGEN(TOX	UG/L		61				
METALS							
ARSENIC	MG/L AS		<0.001				
BARIUM	MG/L BA		0.04				
CADMIUM	MG/L CD		<0.003				
TOTAL CHROMIUM	MG/L CR		< 0.01				
COBALT	MG/L CO		< 0.01				
COPPER	MG/L CU		< 0.01				
LEAD	MG/L PB		< 0.02				
MERCURY	MG/L HG		<.0001				
NICKEL	MG/L NI		< 0.02				
SELENIUM	MG/L SE		<0.001				
SILVER	MG/L AG		< 0.01				
ZINC	MG/L ZN		< 0.01				
ANTIMONY	MG/L SB		<0.001				
BERYLLIUM	MG/L BE		<.0005				
THALLIUM	MG/L TL		<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L		< 0.05				
DINOSEB	UG/L		< 0.1				
THIONAZIN	UG/L		< 1				
DIMETHOATE	UG/L		< 1				
DISULFOTON	UG/L		< 1				
METHYL PARATHION	UG/L		< 1				
ETHYL PARATHION	UG/L		< 1				
PHORATE	UG/L		< 1				
PP'-DDE	UG/L		< 0.01				
PP'-DDD	UG/L		< 0.01				
PP'-DDT	UG/L		< 0.01				

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ91274 01/31/95	WELL RMW6 SJ92681 03/01/95	WELL RMW6 SJ97607 06/19/95	WELL RMW6 SJ97608 06/19/95	WELL RMW6 SJ01560 09/18/95	WELL RMW6 SJ05165 12/12/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L		< 0.01				
LINDANE (GAMMA-BHC)	UG/L		< 0.01				
HEPTACHLOR	UG/L		< 0.01				
HEPTACHLOR EPOXIDE	UG/L		< 0.01				
ALDRIN	UG/L		< 0.01				
DIELDRIN	UG/L		< 0.01				
ENDRIN	UG/L		< 0.01				
TOXAPHENE	UG/L		< 0.5				
METHOXYCLOR	UG/L		< 0.01				
2,4-D(ACID)	UG/L		< 0.5				
2,4,5-TP(SILVEX)	UG/L		< 0.05				
AROCLOR 1242	UG/L		< 0.1				
AROCLOR 1254	UG/L		< 0.05				
BETA-BHC	UG/L		< 0.01				
DELTA-BHC	UG/L		< 0.01				
ENDOSULFAN I	UG/L		< 0.01				
ENDOSULFAN II	UG/L		< 0.01				
ENDOSULFAN SULFATE	UG/L		< 0.1				
ENDRIN ALDEHYDE	UG/L		< 0.01				
AROCLOR 1016	UG/L		< 0.1				
AROCLOR 1221	UG/L		< 0.1				
AROCLOR 1232	UG/L		< 0.1				
AROCLOR 1248	UG/L		< 0.1				
AROCLOR 1260	UG/L		< 0.1				
TECHNICAL CHLORDANE	UG/L		< 0.05 C				
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L		< 100				
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L		< 1000				
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L		< 0.5				
2,2-DICHLOROPROPANE	UG/L		< 0.5				
1,1-DICHLOROPROPENE	UG/L		< 0.5				
ISOBUTYL ALCOHOL	UG/L		< 100				
METHACRYLONITRILE	UG/L		< 10				
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L		< 20				

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ91274 01/31/95	WELL RMW6 SJ92681 03/01/95	WELL RMW6 SJ97607 06/19/95	WELL RMW6 SJ97608 06/19/95	WELL RMW6 SJ01560 09/18/95	WELL RMW6 SJ05165 12/12/95
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L		< 10				
ETHYL METHACRYLATE	UG/L		< 10				
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	3.7	4	5	5	5	4
TETRACHLOROETHYLENE	UG/L	0.6	0.7	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	1
VINYL CHLORIDE	UG/L	1.7	1.8	2	3	4	3
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L		< 0.5				
P-DICHLOROBENZENE	UG/L	2.7	< 0.5	5	5	5	8
1,1-DICHLOROETHANE	UG/L	3.3	3.7	5	5	6	6
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	1.1	1.1	2	2	2	3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	0.9	< 0.5	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1				
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L		< 200				
ACRYLONITRILE	UG/L	< 50	< 50	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L		< 100				
FREON 12 (CCL2F2)	UG/L		< 0.5				
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL RMW6 SJ91274 01/31/95	WELL RMW6 SJ92681 03/01/95	WELL RMW6 SJ97607 06/19/95	WELL RMW6 SJ97608 06/19/95	WELL RMW6 SJ01560 09/18/95	WELL RMW6 SJ05165 12/12/95				
VOLATILE ORGANIC COMPOUNDS												
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10				
CIS-1,2-DICHLOROETHYLENE	UG/L		33	33	57	61	82	81				
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10				
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10				
STYRENE	UG/L		< 0.5	< 0.5	< 1	< 1	< 1	< 1				
2,4,5-TRICHLOROPHENOL	UG/L			< 2								
M+P-XYLENE	UG/L		< 0.5	< 0.5	< 1	< 1	< 1	< 1				
CARBON DISULFIDE	UG/L	CS2	< 0.5	< 0.5	< 1	< 1	< 1	< 1				
2-HEXANONE	UG/L	C6H12O	< 10	< 10	< 5	< 5	< 5	< 5				
ACID-BASE NEUTRAL EXTRACTABLE												
ACETOPHENONE	UG/L			< 4								
2-ACETYLAMINOFLUORENE	UG/L			< 3								
4-AMINOBIPHENYL	UG/L			< 5								
BENZYL ALCOHOL	UG/L			< 5								
P-CHLOROANILINE	UG/L			< 6								
CHLOROBENZILATE	UG/L			< 3								
DIALLATE	UG/L			< 4								
DIBENZOFURAN	UG/L			< 4								
2,6-DICHLOROPHENOL	UG/L			< 4	D							
P(DIMETHYLAMINO)AZOBENZEN	UG/L			< 4								
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			< 15								
3,3'-DIMETHYLBENZIDINE	UG/L			< 4								
M-DINITROBENZENE	UG/L			< 4								
DIPHENYLAMINE	UG/L			< 10								
ETHYL METHANESULFONATE	UG/L			< 4								
FAMPHUR	UG/L			< 50								
HEXACHLOROPROPENE	UG/L			< 20								
ISODRIN	UG/L			< 5								
ISOSAFROLE	UG/L			< 5								
KEPONE	UG/L			< 50								
METHAPYRILENE	UG/L			< 5								
3-METHYLCHOLANTHRENE	UG/L			< 13	D							
METHYL METHANESULFONATE	UG/L			< 11								
2-METHYLNAPHTHALENE	UG/L			< 5								
1,4-NAPHTHOQUINONE	UG/L			< 8								
1-NAPHTHYLAMINE	UG/L			< 4								
2-NAPHTHYLAMINE	UG/L			< 4								
O-NITROANILINE	UG/L			< 4								

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ91274 01/31/95		WELL RMW6 SJ92681 03/01/95		WELL RMW6 SJ97607 06/19/95		WELL RMW6 SJ97608 06/19/95		WELL RMW6 SJ01560 09/18/95		WELL RMW6 SJ05165 12/12/95	
ACID-BASE NEUTRAL EXTRACTABLE													
M-NITROANILINE	UG/L			<	4								
P-NITROANILINE	UG/L			<	4								
N-NITROSODI-N-BUTYLAMINE	UG/L			<	5								
N-NITROSODIETHYLAMINE	UG/L			<	5								
N-NITROSOMETHYLETHYLAMINE	UG/L			<	6								
N-NITROSOPIPERIDINE	UG/L			<	5								
N-NITROSOPYRROLIDINE	UG/L			<	5								
5-NITRO-O-TOLUIDINE	UG/L			<	5								
PENTACHLOROBENZENE	UG/L			<	4								
PENTACHLORONITROBENZENE	UG/L			<	4								
PHENACETIN	UG/L			<	4								
P-PHENYLENEDIAMINE	UG/L			<	20								
PRONAMIDE	UG/L			<	5								
SAFROLE	UG/L			<	5								
1,2,4,5-TETRACHLOROBENZEN	UG/L			<	5								
2,3,4,6-TETRACHLOROPHENOL	UG/L			<	5								
O-TOLUIDINE	UG/L			<	5								
O,O,O-TRIETHYLPHOSPHOROTH	UG/L			<	5								
SYM-TRINITROBENZENE	UG/L			<	48								
ACENAPHTHENE	UG/L			<	2								
ACENAPHTHYLENE	UG/L			<	2								
ANTHRACENE	UG/L			<	2								
BENZIDINE	UG/L			<	62								
BENZO(A)ANTHRACENE	UG/L			<	2								
BENZO(A)PYRENE	UG/L			<	0.3								
BENZO(B)FLUORANTHENE	UG/L			<	2								
BENZO(G.H.I.)PERYLENE	UG/L			<	1								
BENZO(K)FLUORANTHENE	UG/L			<	2								
BIS(2-CL-ETHOXY)METHANE	UG/L			<	2								
BIS(2-CHLOROETHYL)ETHER	UG/L			<	1								
BIS(2-CL-ISOPROPYL)ETHER	UG/L			<	7								
DIETHYLHEXYL PHTHALATE	UG/L			<	1								
4-BROMOPHENYL PHENYLETHER	UG/L			<	2								
BUTYLBENZYL PHTHALATE	UG/L			<	2								
2-CHLORONAPHTHALENE	UG/L			<	3								
4-CHLOROPHENYLPHENYLETHER	UG/L			<	2								
CHRYSENE	UG/L			<	1								
DIBENZO(A,H)ANTHRACENE	UG/L			<	1								
3,3'-DICHLOROBENZIDINE	UG/L			<	14								
DIETHYL PHTHALATE	UG/L			<	2								
DIMETHYL PHTHALATE	UG/L			<	2								

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ91274 01/31/95		WELL RMW6 SJ92681 03/01/95		WELL RMW6 SJ97607 06/19/95		WELL RMW6 SJ97608 06/19/95		WELL RMW6 SJ01560 09/18/95		WELL RMW6 SJ05165 12/12/95	
ACID-BASE NEUTRAL EXTRACTABLE													
DI-N-BUTYL PHTHALATE	UG/L			<	2								
2,4-DINITROTOLUENE	UG/L			<	2	D							
2,6-DINITROTOLUENE	UG/L			<	2								
DI-N-OCTYL PHTHALATE	UG/L			<	2								
FLUORANTHENE	UG/L			<	2								
FLUORENE	UG/L			<	2								
HEXACHLOROBENZENE	UG/L			<	1								
HEXACHLOROBUTADIENE	UG/L			<	4								
HEXACHLOROCYCLOPENTADIENE	UG/L			<	30								
HEXACHLOROETHANE	UG/L			<	4								
INDENO(1,2,3-C,D)PYRENE	UG/L			<	2								
ISOPHORONE	UG/L			<	1								
NAPHTHALENE	UG/L			<	3								
NITROBENZENE	UG/L			<	2								
N-NITROSODIMETHYLAMINE	UG/L			<	1								
N-NITROSODI-N-PROPYLAMINE	UG/L			<	3								
PHENANTHRENE	UG/L			<	2								
PYRENE	UG/L			<	1								
2-CHLOROPHENOL	UG/L			<	2	D							
1,2,4-TRICHLOROBENZENE	UG/L			<	4								
2,4-DICHLOROPHENOL	UG/L			<	2								
2,4-DIMETHYLPHENOL	UG/L			<	2								
2,4-DINITROPHENOL	UG/L			<	19								
2-METHYL-4,6DINITROPHENOL	UG/L			<	2								
2-NITROPHENOL	UG/L			<	3								
4-NITROPHENOL	UG/L			<	18								
4-CHLORO-3-METHYLPHENOL	UG/L			<	2								
PENTACHLOROPHENOL	UG/L			<	0.2								
PHENOL	UG/L			<	2								
2,4,6-TRICHLOROPHENOL	UG/L			<	2								
N-NITROSODIPHENYLAMINE	UG/L			<	2								
O-CRESOL	UG/L			<	4								
M+P CRESOL	UG/L			<	3								

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI RMW6 SJ92680 03/01/95	WEFI RMW6 SJ97605 06/19/95	WEFI RMW6 SJ97606 06/19/95	WEFI RMW6 SJ01559 09/18/95	WEFI RMW6 SJ05162 12/12/95
CATIONS						
IRON	MG/L FE	< 0.02				
MANGANESE	MG/L MN	4.06				
METALS						
ARSENIC	MG/L AS	<0.001				
BARIUM	MG/L BA	0.03				
CADMIUM	MG/L CD	<0.003				
TOTAL CHROMIUM	MG/L CR	< 0.01				
COBALT	MG/L CO	< 0.01				
COPPER	MG/L CU	< 0.01				
LEAD	MG/L PB	< 0.02				
MERCURY	MG/L HG	<.0001				
NICKEL	MG/L NI	< 0.02				
SELENIUM	MG/L SE	<0.001				
SILVER	MG/L AG	< 0.01				
ZINC	MG/L ZN	< 0.01				
ANTIMONY	MG/L SB	<0.001				
BERYLLIUM	MG/L BE	<.0005				
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

TABLE A.2

WATER QUALITY DATA

BARRIER 2 MONITORING WELLS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ92866 03/06/95	WELL M24A SJ98037 06/28/95	WELL M24A SJ01550 09/18/95	WELL M24A SJ05163 12/12/95	WELL M24A SJ05164 12/12/95
FIELD PARAMETERS						
DEPTH TO WATER	FT	54.03	53.64	53.53	54.36	
DEPTH TO BOTTOM	FT			85.21	85.03	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	19	19	18	20	
FIELD WATER TEMPERATURE	DEG C	23.29	21.24	23.75	20.03	
FIELD PH	PH	6.55	6.88	6.82	6.85	
FIELD CONDUCTIVITY	UMHOS/CM	1233	1254	939	1326	
FIELD DISSOLVED O2	MG/L	0.11	0.12	1.87	1.66	
DISSOLVED CO2	MG/L	149				
GENERAL						
PH	PH	7.28	7.15	6.95	7.61 F	7.63
CONDUCTIVITY	UMHOS/CM	1229				
TOTAL DISSOLVED SOLIDS	MG/L	903	951	686	996	1009
TOTAL HARDNESS	MG/L CACO3	649 B				
TOTAL CYANIDE	MG/L CN	<0.002				
BORON	MG/L B	0.25				
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.02 A	< 0.02 A	0.03 A	0.03 A	< 0.02 A
SULFATE	MG/L SO4	370 A	387 A	201 A	440 A	440 A
CHLORIDE	MG/L CL	16.7 A	16.8 A	20.4 A	15.4 A	15.3 A
TOTAL ALKALINITY	MG/L CACO3	302				
BICARBONATE ALKALINITY	MG/L CACO3	302				
TOTAL SULFIDE	MG/L S	< 0.1				
FLUORIDE	MG/L F	1.07				
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3	479				
MAGNESIUM-HARDNESS	MG/L CACO3	170				
SODIUM	MG/L NA	37.5				
POTASSIUM	MG/L K	6.8				
IRON	MG/L FE	0.82				
MANGANESE	MG/L MN	0.35				
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.2				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ92866 03/06/95	WELL M24A SJ98037 06/28/95	WELL M24A SJ01550 09/18/95	WELL M24A SJ05163 12/12/95	WELL M24A SJ05164 12/12/95
ORGANIC MATTER						
TOTAL BOD	MG/L O	< 0.7				
SOLUBLE BOD	MG/L O	< 0.7				
TOTAL COD	MG/L O	2				
SOLUBLE COD	MG/L O	< 2				
TOTAL ORGANIC CARBON	MG/L C	0.58				
OIL & GREASE	MG/L EXTRAC	< 0.9				
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 3.0 C				
METALS						
ARSENIC	MG/L AS	<0.001				
BARIUM	MG/L BA	0.06				
CADMIUM	MG/L CD	<0.003				
TOTAL CHROMIUM	MG/L CR	< 0.01				
COBALT	MG/L CO	< 0.01				
COPPER	MG/L CU	< 0.01				
LEAD	MG/L PB	< 0.02				
MERCURY	MG/L HG	<.0001				
NICKEL	MG/L NI	< 0.02				
SELENIUM	MG/L SE	<0.001				
SILVER	MG/L AG	< 0.01				
ZINC	MG/L ZN	2.75				
ANTIMONY	MG/L SB	<0.001				
BERYLLIUM	MG/L BE	<.0005 C				
THALLIUM	MG/L TL	<0.002 C	<0.002 C	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L	< 0.05				
DINOSEB	UG/L	< 0.1				
THIONAZIN	UG/L	< 1				
DIMETHOATE	UG/L	< 1				
DISULFOTON	UG/L	< 1				
METHYL PARATHION	UG/L	< 1				
ETHYL PARATHION	UG/L	< 1				
PHORATE	UG/L	< 1				
PP'-DDE	UG/L	< 0.01				
PP'-DDD	UG/L	< 0.01				
PP'-DDT	UG/L	< 0.01				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ92866 03/06/95	WELL M24A SJ98037 06/28/95	WELL M24A SJ01550 09/18/95	WELL M24A SJ05163 12/12/95	WELL M24A SJ05164 12/12/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L	< 0.01				
LINDANE (GAMMA-BHC)	UG/L	< 0.01				
HEPTACHLOR	UG/L	< 0.01				
HEPTACHLOR EPOXIDE	UG/L	< 0.01				
ALDRIN	UG/L	< 0.01				
DIELDRIN	UG/L	< 0.01				
ENDRIN	UG/L	< 0.01				
TOXAPHENE	UG/L	< 0.5				
METHOXYCLOR	UG/L	< 0.01				
2,4-D(ACID)	UG/L	< 0.5				
2,4,5-TP(SILVEX)	UG/L	< 0.05				
AROCLOR 1242	UG/L	< 0.1				
AROCLOR 1254	UG/L	< 0.05				
BETA-BHC	UG/L	< 0.01				
DELTA-BHC	UG/L	< 0.01				
ENDOSULFAN I	UG/L	< 0.01				
ENDOSULFAN II	UG/L	< 0.01				
ENDOSULFAN SULFATE	UG/L	< 0.1				
ENDRIN ALDEHYDE	UG/L	< 0.01				
AROCLOR 1016	UG/L	< 0.1				
AROCLOR 1221	UG/L	< 0.1				
AROCLOR 1232	UG/L	< 0.1				
AROCLOR 1248	UG/L	< 0.1				
AROCLOR 1260	UG/L	< 0.1				
TECHNICAL CHLORDANE	UG/L	< 0.05 D				
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L	< 100				
BROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 1000				
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.5				
2,2-DICHLOROPROPANE	UG/L	< 0.5				
1,1-DICHLOROPROPENE	UG/L	< 0.5				
ISOBUTYL ALCOHOL	UG/L	< 100				
METHACRYLONITRILE	UG/L	< 10				
METHYL IODIDE	UG/L	< 0.5	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 0.5	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 20				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ92866 03/06/95	WELL M24A SJ98037 06/28/95	WELL M24A SJ01550 09/18/95	WELL M24A SJ05163 12/12/95	WELL M24A SJ05164 12/12/95
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10				
ETHYL METHACRYLATE	UG/L	< 10				
METHYLENE CHLORIDE	UG/L	< 3	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 0.5				
P-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1				
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200				
ACRYLONITRILE	UG/L	< 50	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L	< 100				
FREON 12 (CCL2F2)	UG/L	< 0.5				
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ92866 03/06/95	WELL M24A SJ98037 06/28/95	WELL M24A SJ01550 09/18/95	WELL M24A SJ05163 12/12/95	WELL M24A SJ05164 12/12/95
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 2				
M+P-XYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 0.5	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 10	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L	< 4				
2-ACETYLAMINOFLUORENE	UG/L	< 3				
4-AMINOBIPHENYL	UG/L	< 5				
BENZYL ALCOHOL	UG/L	< 5				
P-CHLOROANILINE	UG/L	< 6				
CHLOROBENZILATE	UG/L	< 3				
DIALLATE	UG/L	< 4				
DIBENZOFURAN	UG/L	< 4				
2,6-DICHLOROPHENOL	UG/L	< 4 E				
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 4				
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	< 15				
3,3'-DIMETHYLBENZIDINE	UG/L	< 4				
M-DINITROBENZENE	UG/L	< 4				
DIPHENYLAMINE	UG/L	< 10				
ETHYL METHANESULFONATE	UG/L	< 4				
FAMPHUR	UG/L	< 50				
HEXACHLOROPROPENE	UG/L	< 20				
ISODRIN	UG/L	< 5				
ISOSAFROLE	UG/L	< 5				
KEPONE	UG/L	< 50				
METHAPYRILENE	UG/L	< 5				
3-METHYLCHOLANTHRENE	UG/L	< 13 E				
METHYL METHANESULFONATE	UG/L	< 11				
2-METHYLNAPHTHALENE	UG/L	< 5				
1,4-NAPHTHOQUINONE	UG/L	< 8				
1-NAPHTHYLAMINE	UG/L	< 4				
2-NAPHTHYLAMINE	UG/L	< 4				
O-NITROANILINE	UG/L	< 4				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ92866 03/06/95		WELL M24A SJ98037 06/28/95		WELL M24A SJ01550 09/18/95		WELL M24A SJ05163 12/12/95		WELL M24A SJ05164 12/12/95	
ACID-BASE NEUTRAL EXTRACTABLE											
M-NITROANILINE	UG/L	<	4								
P-NITROANILINE	UG/L	<	4								
N-NITROSODI-N-BUTYLAMINE	UG/L	<	5								
N-NITROSODIETHYLAMINE	UG/L	<	5								
N-NITROSOMETHYLETHYLAMINE	UG/L	<	6								
N-NITROSOPIPERIDINE	UG/L	<	5								
N-NITROSOPYRROLIDINE	UG/L	<	5								
5-NITRO-O-TOLUIDINE	UG/L	<	5								
PENTACHLOROBENZENE	UG/L	<	4								
PENTACHLORONITROBENZENE	UG/L	<	4								
PHENACETIN	UG/L	<	4								
P-PHENYLENEDIAMINE	UG/L	<	20								
PRONAMIDE	UG/L	<	5								
SAFROLE	UG/L	<	5								
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	5								
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	5								
O-TOLUIDINE	UG/L	<	5								
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5								
SYM-TRINITROBENZENE	UG/L	<	48								
ACENAPHTHENE	UG/L	<	2								
ACENAPHTHYLENE	UG/L	<	2								
ANTHRACENE	UG/L	<	2								
BENZIDINE	UG/L	<	62								
BENZO(A)ANTHRACENE	UG/L	<	2								
BENZO(A)PYRENE	UG/L	<	0.3								
BENZO(B)FLUORANTHENE	UG/L	<	2								
BENZO(G.H.I.)PERYLENE	UG/L	<	1								
BENZO(K)FLUORANTHENE	UG/L	<	2								
BIS(2-CL-ETHOXY)METHANE	UG/L	<	2								
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1								
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	7								
DIETHYLHEXYL PHTHALATE	UG/L	<	1								
4-BROMOPHENYL PHENYLETHER	UG/L	<	2								
BUTYLBENZYL PHTHALATE	UG/L	<	2								
2-CHLORONAPHTHALENE	UG/L	<	3								
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2								
CHRYSENE	UG/L	<	1								
DIBENZO(A,H)ANTHRACENE	UG/L	<	1								
3,3'-DICHLOROBENZIDINE	UG/L	<	14	E							
DIETHYL PHTHALATE	UG/L	<	2	E							
DIMETHYL PHTHALATE	UG/L	<	2	E							

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ92866 03/06/95	WELL M24A SJ98037 06/28/95	WELL M24A SJ01550 09/18/95	WELL M24A SJ05163 12/12/95	WELL M24A SJ05164 12/12/95
ACID-BASE NEUTRAL EXTRACTABLE						
DI-N-BUTYL PHTHALATE	UG/L	< 1				
2,4-DINITROTOLUENE	UG/L	< 2				
2,6-DINITROTOLUENE	UG/L	< 2				
DI-N-OCTYL PHTHALATE	UG/L	< 2				
FLUORANTHENE	UG/L	< 2				
FLUORENE	UG/L	< 2				
HEXACHLOROBENZENE	UG/L	< 1				
HEXACHLOROBUTADIENE	UG/L	< 4				
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30				
HEXACHLOROETHANE	UG/L	< 4				
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2				
ISOPHORONE	UG/L	< 1				
NAPHTHALENE	UG/L	< 3				
NITROBENZENE	UG/L	< 2				
N-NITROSODIMETHYLAMINE	UG/L	< 1				
N-NITROSODI-N-PROPYLAMINE	UG/L	< 3				
PHENANTHRENE	UG/L	< 2				
PYRENE	UG/L	< 1				
2-CHLOROPHENOL	UG/L	< 2				
1,2,4-TRICHLOROBENZENE	UG/L	< 4				
2,4-DICHLOROPHENOL	UG/L	< 2				
2,4-DIMETHYLPHENOL	UG/L	< 2				
2,4-DINITROPHENOL	UG/L	< 19				
2-METHYL-4,6DINITROPHENOL	UG/L	< 2				
2-NITROPHENOL	UG/L	< 3				
4-NITROPHENOL	UG/L	< 18				
4-CHLORO-3-METHYLPHENOL	UG/L	< 2				
PENTACHLOROPHENOL	UG/L	< 0.1				
PHENOL	UG/L	< 2				
2,4,6-TRICHLOROPHENOL	UG/L	< 2				
N-NITROSODIPHENYLAMINE	UG/L	< 2				
O-CRESOL	UG/L	< 4				
M+P CRESOL	UG/L	< 3				

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M24A SJ92864 03/06/95	WEFI M24A SJ98035 06/28/95	WEFI M24A SJ01549 09/18/95	WEFI M24A SJ05160 12/12/95	WEFI M24A SJ05161 12/12/95
CATIONS						
IRON	MG/L FE	0.09				
MANGANESE	MG/L MN	0.34				
METALS						
ARSENIC	MG/L AS	<0.001				
BARIUM	MG/L BA	0.05				
CADMIUM	MG/L CD	<0.003				
TOTAL CHROMIUM	MG/L CR	< 0.01				
COBALT	MG/L CO	< 0.01				
COPPER	MG/L CU	< 0.01				
LEAD	MG/L PB	< 0.02				
MERCURY	MG/L HG	<.0001				
NICKEL	MG/L NI	< 0.02				
SELENIUM	MG/L SE	<0.001				
SILVER	MG/L AG	< 0.01				
ZINC	MG/L ZN	2.88				
ANTIMONY	MG/L SB	<0.001				
BERYLLIUM	MG/L BE	<.0005				
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ92867 03/06/95	WELL M27B SJ98038 06/28/95	WELL M27B SJ01611 09/19/95	WELL M27B SJ03238 10/25/95	WELL M27B SJ03239 10/25/95	WELL M27B SJ05573 12/21/95	WELL M27B SJ05574 12/21/95
FIELD PARAMETERS								
DEPTH TO WATER	FT	57.64	55.41	55.14	54.64		56.02	
DEPTH TO BOTTOM	FT			82.89	82.36		82.98	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	19	19	20	20		19	
FIELD WATER TEMPERATURE	DEG C	22.27	21.58	25.7	20.7		20.41	
FIELD PH	PH	6.56	6.93	6.86	6.83		6.73	
FIELD CONDUCTIVITY	UMHOS/CM	1105	1086	1031	1071		1087	
FIELD DISSOLVED O2	MG/L	0.43	1.14	3.34	0.62		0.36	
DISSOLVED CO2	MG/L	147						
GENERAL								
PH	PH	7.42	7.49 D	7.12	7.11	7.16	7.23	7.25
CONDUCTIVITY	UMHOS/CM	1045						
TOTAL DISSOLVED SOLIDS	MG/L	755	791 B	744	800	787	753	743
TOTAL HARDNESS	MG/L CACO3	570 C						
TOTAL CYANIDE	MG/L CN	<0.002						
BORON	MG/L B	0.35						
ANIONS								
NITRATE NITROGEN	MG/L N	< 0.02 A	< 0.02 A	< 0.02 A	< 0.02 A	< 0.02 A	< 0.02 A	< 0.02 A
SULFATE	MG/L SO4	260 A	276 A	246 A	282 A	282 A	261 A	262 A
CHLORIDE	MG/L CL	14.4 A	14.0 A	14.5 A	14.9 A	14.8 A	14.7 A	14.6 A
TOTAL ALKALINITY	MG/L CACO3	304 B						
BICARBONATE ALKALINITY	MG/L CACO3	304						
TOTAL SULFIDE	MG/L S	< 0.1						
FLUORIDE	MG/L F	1.02						
CATIONS								
CALCIUM-HARDNESS	MG/L CACO3	429						
MAGNESIUM-HARDNESS	MG/L CACO3	141						
SODIUM	MG/L NA	25.8						
POTASSIUM	MG/L K	6.1						
IRON	MG/L FE	2.47						
MANGANESE	MG/L MN	0.34						
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N	< 0.2						

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE OF DUPS E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-DUPLICATE SPIKE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ92867 03/06/95	WELL M27B SJ98038 06/28/95	WELL M27B SJ01611 09/19/95	WELL M27B SJ03238 10/25/95	WELL M27B SJ03239 10/25/95	WELL M27B SJ05573 12/21/95	WELL M27B SJ05574 12/21/95
ORGANIC MATTER								
TOTAL BOD	MG/L O	< 0.7						
SOLUBLE BOD	MG/L O	< 0.7 D						
TOTAL COD	MG/L O	2						
SOLUBLE COD	MG/L O	< 2 B						
TOTAL ORGANIC CARBON	MG/L C	0.55						
OIL & GREASE	MG/L EXTRAC	< 0.9						
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 3.0						
METALS								
ARSENIC	MG/L AS	<0.001						
BARIUM	MG/L BA	0.06						
CADMIUM	MG/L CD	<0.003						
TOTAL CHROMIUM	MG/L CR	< 0.01						
COBALT	MG/L CO	< 0.01						
COPPER	MG/L CU	< 0.01						
LEAD	MG/L PB	< 0.02						
MERCURY	MG/L HG	.0001						
NICKEL	MG/L NI	< 0.02						
SELENIUM	MG/L SE	<0.001						
SILVER	MG/L AG	< 0.01						
ZINC	MG/L ZN	0.02						
ANTIMONY	MG/L SB	<0.001						
BERYLLIUM	MG/L BE	<.0005						
THALLIUM	MG/L TL	<0.002	<0.002	<0.002			<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06 G	< 0.06			< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05 G	< 0.05			< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
2,4,5-T	UG/L	< 0.05						
DINOSEB	UG/L	< 0.1						
THIONAZIN	UG/L	< 1						
DIMETHOATE	UG/L	< 1						
DISULFOTON	UG/L	< 1						
METHYL PARATHION	UG/L	< 1						
ETHYL PARATHION	UG/L	< 1						
PHORATE	UG/L	< 1						
PP'-DDE	UG/L	< 0.01						
PP'-DDD	UG/L	< 0.01						
PP'-DDT	UG/L	< 0.01						

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ92867 03/06/95	WELL M27B SJ98038 06/28/95	WELL M27B SJ01611 09/19/95	WELL M27B SJ03238 10/25/95	WELL M27B SJ03239 10/25/95	WELL M27B SJ05573 12/21/95	WELL M27B SJ05574 12/21/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
ALPHA-BHC	UG/L	< 0.01						
LINDANE (GAMMA-BHC)	UG/L	< 0.01						
HEPTACHLOR	UG/L	< 0.01						
HEPTACHLOR EPOXIDE	UG/L	< 0.01						
ALDRIN	UG/L	< 0.01						
DIELDRIN	UG/L	< 0.01						
ENDRIN	UG/L	< 0.01						
TOXAPHENE	UG/L	< 0.5						
METHOXYCLOR	UG/L	< 0.01						
2,4-D(ACID)	UG/L	< 0.5						
2,4,5-TP(SILVEX)	UG/L	< 0.05						
AROCLOR 1242	UG/L	< 0.1						
AROCLOR 1254	UG/L	< 0.05						
BETA-BHC	UG/L	< 0.01						
DELTA-BHC	UG/L	< 0.01						
ENDOSULFAN I	UG/L	< 0.01						
ENDOSULFAN II	UG/L	< 0.01						
ENDOSULFAN SULFATE	UG/L	< 0.1						
ENDRIN ALDEHYDE	UG/L	< 0.01						
AROCLOR 1016	UG/L	< 0.1						
AROCLOR 1221	UG/L	< 0.1						
AROCLOR 1232	UG/L	< 0.1						
AROCLOR 1248	UG/L	< 0.1						
AROCLOR 1260	UG/L	< 0.1						
TECHNICAL CHLORDANE	UG/L	< 0.05 E						
VOLATILE ORGANIC COMPOUNDS								
ALLYL CHLORIDE	UG/L	< 100						
BROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 1000						
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	<0.010	<0.010	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.5						
2,2-DICHLOROPROPANE	UG/L	< 0.5						
1,1-DICHLOROPROPENE	UG/L	< 0.5						
ISOBUTYL ALCOHOL	UG/L	< 100						
METHACRYLONITRILE	UG/L	< 10						
METHYL IODIDE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 20						

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WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ92867 03/06/95	WELL M27B SJ98038 06/28/95	WELL M27B SJ01611 09/19/95	WELL M27B SJ03238 10/25/95	WELL M27B SJ03239 10/25/95	WELL M27B SJ05573 12/21/95	WELL M27B SJ05574 12/21/95
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10						
ETHYL METHACRYLATE	UG/L	< 10						
METHYLENE CHLORIDE	UG/L	< 3	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3	0.4	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 0.5						
P-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1						
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200						
ACRYLONITRILE	UG/L	< 50	< 10	< 10	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L	< 100						
FREON 12 (CCL2F2)	UG/L	< 0.5						
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M27B SJ92867 03/06/95		WELL M27B SJ98038 06/28/95		WELL M27B SJ01611 09/19/95		WELL M27B SJ03238 10/25/95		WELL M27B SJ03239 10/25/95		WELL M27B SJ05573 12/21/95		WELL M27B SJ05574 12/21/95	
VOLATILE ORGANIC COMPOUNDS																
1,2-DIBROMOETHANE	UG/L		<	0.01	<	0.01	<	0.01	<0.010		<0.010		<	0.01	<	0.01
ACETONE	UG/L		<	10	<	10	<	10	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L		<	0.5	<	1		1	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L		<	10	<	10	<	10	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L		<	10	<	10	<	10	<	10	<	10	<	10	<	10
STYRENE	UG/L		<	0.5	<	1	<	1	<	1	<	1	<	1	<	1
2,4,5-TRICHLOROPHENOL	UG/L		<	2												
M+P-XYLENE	UG/L		<	0.5	<	1	<	1	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	CS2	<	0.5	<	1	<	1	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	C6H12O	<	10	<	5	<	5	<	5	<	5	<	5	<	5
ACID-BASE NEUTRAL EXTRACTABLE																
ACETOPHENONE	UG/L		<	4												
2-ACETYLAMINOFLUORENE	UG/L		<	3												
4-AMINOBIPHENYL	UG/L		<	5												
BENZYL ALCOHOL	UG/L		<	5												
P-CHLOROANILINE	UG/L		<	6												
CHLOROBENZILATE	UG/L		<	3												
DIALLATE	UG/L		<	4												
DIBENZOFURAN	UG/L		<	4												
2,6-DICHLOROPHENOL	UG/L		<	4	F											
P(DIMETHYLAMINO)AZOBENZEN	UG/L		<	4												
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		<	15												
3,3'-DIMETHYLBENZIDINE	UG/L		<	4												
M-DINITROBENZENE	UG/L		<	4												
DIPHENYLAMINE	UG/L		<	10												
ETHYL METHANESULFONATE	UG/L		<	4												
FAMPHUR	UG/L		<	50												
HEXACHLOROPROPENE	UG/L		<	20												
ISODRIN	UG/L		<	5												
ISOSAFROLE	UG/L		<	5												
KEPONE	UG/L		<	50												
METHAPYRILENE	UG/L		<	5												
3-METHYLCHOLANTHRENE	UG/L		<	13	F											
METHYL METHANESULFONATE	UG/L		<	11												
2-METHYLNAPHTHALENE	UG/L		<	5												
1,4-NAPHTHOQUINONE	UG/L		<	8												
1-NAPHTHYLAMINE	UG/L		<	4												
2-NAPHTHYLAMINE	UG/L		<	4												
O-NITROANILINE	UG/L		<	4												

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ92867 03/06/95	WELL M27B SJ98038 06/28/95	WELL M27B SJ01611 09/19/95	WELL M27B SJ03238 10/25/95	WELL M27B SJ03239 10/25/95	WELL M27B SJ05573 12/21/95	WELL M27B SJ05574 12/21/95
ACID-BASE NEUTRAL EXTRACTABLE								
M-NITROANILINE	UG/L	< 4						
P-NITROANILINE	UG/L	< 4						
N-NITROSODI-N-BUTYLAMINE	UG/L	< 5						
N-NITROSODIETHYLAMINE	UG/L	< 5						
N-NITROSOMETHYLETHYLAMINE	UG/L	< 6						
N-NITROSOPIPERIDINE	UG/L	< 5						
N-NITROSOPYRROLIDINE	UG/L	< 5						
5-NITRO-O-TOLUIDINE	UG/L	< 5						
PENTACHLOROBENZENE	UG/L	< 4						
PENTACHLORONITROBENZENE	UG/L	< 4						
PHENACETIN	UG/L	< 4						
P-PHENYLENEDIAMINE	UG/L	< 20						
PRONAMIDE	UG/L	< 5						
SAFROLE	UG/L	< 5						
1,2,4,5-TETRACHLOROBENZEN	UG/L	< 5						
2,3,4,6-TETRACHLOROPHENOL	UG/L	< 5						
O-TOLUIDINE	UG/L	< 5						
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	< 5						
SYM-TRINITROBENZENE	UG/L	< 48						
ACENAPHTHENE	UG/L	< 22						
ACENAPHTHYLENE	UG/L	< 2						
ANTHRACENE	UG/L	< 2						
BENZIDINE	UG/L	< 62						
BENZO(A)ANTHRACENE	UG/L	< 2						
BENZO(A)PYRENE	UG/L	< 0.3						
BENZO(B)FLUORANTHENE	UG/L	< 2						
BENZO(G,H,I,)PERYLENE	UG/L	< 1						
BENZO(K)FLUORANTHENE	UG/L	< 2						
BIS(2-CL-ETHOXY)METHANE	UG/L	< 2						
BIS(2-CHLOROETHYL)ETHER	UG/L	< 1						
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 7						
DIETHYLHEXYL PHTHALATE	UG/L	< 1						
4-BROMOPHENYL PHENYLETHER	UG/L	< 2						
BUTYLBENZYL PHTHALATE	UG/L	< 2						
2-CHLORONAPHTHALENE	UG/L	< 3						
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2						
CHRYSENE	UG/L	< 1						
DIBENZO(A,H)ANTHRACENE	UG/L	< 1						
3,3'-DICHLOROBENZIDINE	UG/L	< 14						
DIETHYL PHTHALATE	UG/L	< 2						
DIMETHYL PHTHALATE	UG/L	< 2						

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE OF DUPS E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-DUPLICATE SPIKE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ92867 03/06/95	WELL M27B SJ98038 06/28/95	WELL M27B SJ01611 09/19/95	WELL M27B SJ03238 10/25/95	WELL M27B SJ03239 10/25/95	WELL M27B SJ05573 12/21/95	WELL M27B SJ05574 12/21/95
ACID-BASE NEUTRAL EXTRACTABLE								
DI-N-BUTYL PHTHALATE	UG/L	< 1						
2,4-DINITROTOLUENE	UG/L	< 2						
2,6-DINITROTOLUENE	UG/L	< 2						
DI-N-OCTYL PHTHALATE	UG/L	< 2						
FLUORANTHENE	UG/L	< 2						
FLUORENE	UG/L	< 2						
HEXACHLOROBENZENE	UG/L	< 1						
HEXACHLOROBUTADIENE	UG/L	< 4						
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30						
HEXACHLOROETHANE	UG/L	< 4						
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2						
ISOPHORONE	UG/L	< 1						
NAPHTHALENE	UG/L	< 3						
NITROBENZENE	UG/L	< 2						
N-NITROSODIMETHYLAMINE	UG/L	< 1						
N-NITROSODI-N-PROPYLAMINE	UG/L	< 3						
PHENANTHRENE	UG/L	< 2						
PYRENE	UG/L	< 1						
2-CHLOROPHENOL	UG/L	< 2						
1,2,4-TRICHLOROBENZENE	UG/L	< 4						
2,4-DICHLOROPHENOL	UG/L	< 2						
2,4-DIMETHYLPHENOL	UG/L	< 2						
2,4-DINITROPHENOL	UG/L	< 19						
2-METHYL-4,6DINITROPHENOL	UG/L	< 2						
2-NITROPHENOL	UG/L	< 3						
4-NITROPHENOL	UG/L	< 18						
4-CHLORO-3-METHYLPHENOL	UG/L	< 2						
PENTACHLOROPHENOL	UG/L	< 0.1						
PHENOL	UG/L	< 2						
2,4,6-TRICHLOROPHENOL	UG/L	< 2						
N-NITROSODIPHENYLAMINE	UG/L	< 2						
O-CRESOL	UG/L	< 4						
M+P CRESOL	UG/L	< 3						

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE OF DUPS E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-DUPLICATE SPIKE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M27B SJ92865 03/06/95	WEFI M27B SJ98036 06/28/95	WEFI M27B SJ01610 09/19/95	WEFI M27B SJ05570 12/21/95	WEFI M27B SJ05571 12/21/95
CATIONS						
IRON	MG/L FE	0.19				
MANGANESE	MG/L MN	0.33				
METALS						
ARSENIC	MG/L AS	<0.001				
BARIUM	MG/L BA	0.04				
CADMIUM	MG/L CD	<0.003				
TOTAL CHROMIUM	MG/L CR	< 0.01				
COBALT	MG/L CO	< 0.01				
COPPER	MG/L CU	< 0.01				
LEAD	MG/L PB	< 0.02				
MERCURY	MG/L HG	<.0001				
NICKEL	MG/L NI	< 0.02				
SELENIUM	MG/L SE	<0.001				
SILVER	MG/L AG	< 0.01				
ZINC	MG/L ZN	< 0.01				
ANTIMONY	MG/L SB	<0.001				
BERYLLIUM	MG/L BE	<.0005				
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 A	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ93506 03/17/95		WELL M29B SJ97729 06/21/95		WELL M29B SJ01551 09/18/95		WELL M29B SJ05575 12/21/95	
FIELD PARAMETERS									
DEPTH TO WATER	FT	53.56		52.45		52.02		58.01	
DEPTH TO BOTTOM	FT					100.5		100.9	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	20		19		14		20	
FIELD WATER TEMPERATURE	DEG C	20.88		20.5		24.36		19.33	
FIELD PH	PH	6.75		6.84		6.83		6.86	
FIELD CONDUCTIVITY	UMHOS/CM	1345		1252		1215		990	
FIELD DISSOLVED O2	MG/L	1.47		0.3		0.69		0.49	
DISSOLVED CO2	MG/L	91							
GENERAL									
PH	PH	7.46	A	7.49		7.26		7.35	
CONDUCTIVITY	UMHOS/CM	1130							
TOTAL DISSOLVED SOLIDS	MG/L	783	B	816		886		652	
TOTAL HARDNESS	MG/L CACO3	549							
TOTAL CYANIDE	MG/L CN	<0.002							
BORON	MG/L B	0.30							
ANIONS									
NITRATE NITROGEN	MG/L N	0.03	C	0.02	C	< 0.02	C	0.02	C
SULFATE	MG/L SO4	273	C	336	C	313	C	208	C
CHLORIDE	MG/L CL	44.4	C	52.6	C	42.1	C	28.0	C
TOTAL ALKALINITY	MG/L CACO3	291							
BICARBONATE ALKALINITY	MG/L CACO3	291							
TOTAL SULFIDE	MG/L S	< 0.1							
FLUORIDE	MG/L F	1.29							
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	360							
MAGNESIUM-HARDNESS	MG/L CACO3	189							
SODIUM	MG/L NA	43.5							
POTASSIUM	MG/L K	5.8							
IRON	MG/L FE	0.04							
MANGANESE	MG/L MN	0.31							
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.2							

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-DUPLICATE SPIKE G-AMENDED TEST RESULT

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ93506 03/17/95	WELL M29B SJ97729 06/21/95	WELL M29B SJ01551 09/18/95	WELL M29B SJ05575 12/21/95
ORGANIC MATTER					
TOTAL BOD	MG/L O	< 0.7			
SOLUBLE BOD	MG/L O	< 0.7 A			
TOTAL COD	MG/L O	4			
SOLUBLE COD	MG/L O	3			
TOTAL ORGANIC CARBON	MG/L C	0.86			
OIL & GREASE	MG/L EXTRAC	< 0.9			
TOTAL ORGANIC HALOGEN(TOX	UG/L	4.5 D			
METALS					
ARSENIC	MG/L AS	<0.001			
BARIUM	MG/L BA	0.05			
CADMIUM	MG/L CD	<0.003			
TOTAL CHROMIUM	MG/L CR	< 0.01			
COBALT	MG/L CO	< 0.01			
COPPER	MG/L CU	< 0.01			
LEAD	MG/L PB	< 0.02			
MERCURY	MG/L HG	<.0001 F			
NICKEL	MG/L NI	< 0.02			
SELENIUM	MG/L SE	<0.001			
SILVER	MG/L AG	< 0.01			
ZINC	MG/L ZN	< 0.01			
ANTIMONY	MG/L SB	<0.001			
BERYLLIUM	MG/L BE	<.0005			
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	< 0.05			
DINOSEB	UG/L	< 0.1			
THIONAZIN	UG/L	< 1			
DIMETHOATE	UG/L	< 1			
DISULFOTON	UG/L	< 1			
METHYL PARATHION	UG/L	< 1			
ETHYL PARATHION	UG/L	< 1			
PHORATE	UG/L	< 1			
PP'-DDE	UG/L	< 0.01			
PP'-DDD	UG/L	< 0.01			
PP'-DDT	UG/L	< 0.01			

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-DUPLICATE SPIKE G-AMENDED TEST RESULT

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ93506 03/17/95	WELL M29B SJ97729 06/21/95	WELL M29B SJ01551 09/18/95	WELL M29B SJ05575 12/21/95						
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ALPHA-BHC	UG/L	< 0.01									
LINDANE (GAMMA-BHC)	UG/L	< 0.01									
HEPTACHLOR	UG/L	< 0.01									
HEPTACHLOR EPOXIDE	UG/L	< 0.01									
ALDRIN	UG/L	< 0.01									
DIELDRIN	UG/L	< 0.01									
ENDRIN	UG/L	< 0.01									
TOXAPHENE	UG/L	< 0.5									
METHOXYCLOR	UG/L	< 0.01									
2,4-D(ACID)	UG/L	< 0.5									
2,4,5-TP(SILVEX)	UG/L	< 0.05									
AROCLOR 1242	UG/L	< 0.1									
AROCLOR 1254	UG/L	< 0.05									
BETA-BHC	UG/L	< 0.01									
DELTA-BHC	UG/L	< 0.01									
ENDOSULFAN I	UG/L	< 0.01									
ENDOSULFAN II	UG/L	< 0.01									
ENDOSULFAN SULFATE	UG/L	< 0.1									
ENDRIN ALDEHYDE	UG/L	< 0.01									
AROCLOR 1016	UG/L	< 0.1									
AROCLOR 1221	UG/L	< 0.1									
AROCLOR 1232	UG/L	< 0.1									
AROCLOR 1248	UG/L	< 0.1									
AROCLOR 1260	UG/L	< 0.1									
TECHNICAL CHLORDANE	UG/L	< 0.05 E									
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L	< 100									
BROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1						
CHLOROPRENE	UG/L	< 1000									
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 1	< 1	< 1						
1,3-DICHLOROPROPANE	UG/L	< 0.5									
2,2-DICHLOROPROPANE	UG/L	< 0.5									
1,1-DICHLOROPROPENE	UG/L	< 0.5									
ISOBUTYL ALCOHOL	UG/L	< 100									
METHACRYLONITRILE	UG/L	< 10									
METHYL IODIDE	UG/L	< 0.5	< 1	< 1	< 1						
METHYLENE BROMIDE	UG/L	< 0.5	< 1	< 1	< 1						
PROPIONITRILE	UG/L	< 20									

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F-DUPLICATE SPIKE G-AMENDED TEST RESULT

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ93506 03/17/95	WELL M29B SJ97729 06/21/95	WELL M29B SJ01551 09/18/95	WELL M29B SJ05575 12/21/95
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10			
ETHYL METHACRYLATE	UG/L	< 10			
METHYLENE CHLORIDE	UG/L	< 3	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 0.5			
P-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1			
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200			
ACRYLONITRILE	UG/L	< 50	< 10	< 10	< 10
ACETONITRILE	UG/L	< 100			
FREON 12 (CCL2F2)	UG/L	< 0.5			
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1

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F-DUPLICATE SPIKE G-AMENDED TEST RESULT

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M29B SJ93506 03/17/95		WELL M29B SJ97729 06/21/95		WELL M29B SJ01551 09/18/95		WELL M29B SJ05575 12/21/95	
VOLATILE ORGANIC COMPOUNDS										
1,2-DIBROMOETHANE	UG/L		< 0.01		< 0.01		< 0.01		< 0.01	
ACETONE	UG/L		< 10		< 10		< 10		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5		< 1		< 1		< 1	
2-BUTANONE	UG/L		< 10		< 10		< 10		< 10	
4-METHYL-2-PENTANONE	UG/L		< 10		< 10		< 10		< 10	
STYRENE	UG/L		< 0.5		< 1		< 1		< 1	
2,4,5-TRICHLOROPHENOL	UG/L		< 2							
M+P-XYLENE	UG/L		< 0.5		< 1		< 1		< 1	
CARBON DISULFIDE	UG/L	CS2	< 0.5		< 1		< 1		< 1	
2-HEXANONE	UG/L	C6H12O	< 10		< 5		< 5		< 5	
ACID-BASE NEUTRAL EXTRACTABLE										
ACETOPHENONE	UG/L		< 4							
2-ACETYLAMINOFLUORENE	UG/L		< 3							
4-AMINOBIPHENYL	UG/L		< 5							
BENZYL ALCOHOL	UG/L		< 5							
P-CHLOROANILINE	UG/L		< 6							
CHLOROBENZILATE	UG/L		< 3							
DIALLATE	UG/L		< 4							
DIBENZOFURAN	UG/L		< 4							
2,6-DICHLOROPHENOL	UG/L		< 4	G						
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4							
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15							
3,3'-DIMETHYLBENZIDINE	UG/L		< 4							
M-DINITROBENZENE	UG/L		< 4							
DIPHENYLAMINE	UG/L		< 10							
ETHYL METHANESULFONATE	UG/L		< 4							
FAMPHUR	UG/L		< 50							
HEXACHLOROPROPENE	UG/L		< 20							
ISODRIN	UG/L		< 5							
ISOSAFROLE	UG/L		< 5							
KEPONE	UG/L		< 50							
METHAPYRILENE	UG/L		< 5							
3-METHYLCHOLANTHRENE	UG/L		< 13	G						
METHYL METHANESULFONATE	UG/L		< 11							
2-METHYLNAPHTHALENE	UG/L		< 5							
1,4-NAPHTHOQUINONE	UG/L		< 8							
1-NAPHTHYLAMINE	UG/L		< 4							
2-NAPHTHYLAMINE	UG/L		< 4							
O-NITROANILINE	UG/L		< 4							

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ93506 03/17/95		WELL M29B SJ97729 06/21/95		WELL M29B SJ01551 09/18/95		WELL M29B SJ05575 12/21/95	
ACID-BASE NEUTRAL EXTRACTABLE									
M-NITROANILINE	UG/L	<	4						
P-NITROANILINE	UG/L	<	4						
N-NITROSODI-N-BUTYLAMINE	UG/L	<	5						
N-NITROSODIETHYLAMINE	UG/L	<	5						
N-NITROSOMETHYLETHYLAMINE	UG/L	<	6						
N-NITROSOPIPERIDINE	UG/L	<	5						
N-NITROSOPYRROLIDINE	UG/L	<	5						
5-NITRO-O-TOLUIDINE	UG/L	<	5						
PENTACHLOROBENZENE	UG/L	<	4						
PENTACHLORONITROBENZENE	UG/L	<	4						
PHENACETIN	UG/L	<	4						
P-PHENYLENEDIAMINE	UG/L	<	20						
PRONAMIDE	UG/L	<	5						
SAFROLE	UG/L	<	5						
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	5						
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	5						
O-TOLUIDINE	UG/L	<	5						
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5						
SYM-TRINITROBENZENE	UG/L	<	48						
ACENAPHTHENE	UG/L	<	2						
ACENAPHTHYLENE	UG/L	<	2						
ANTHRACENE	UG/L	<	2						
BENZIDINE	UG/L	<	62						
BENZO(A)ANTHRACENE	UG/L	<	2						
BENZO(A)PYRENE	UG/L	<	0.3						
BENZO(B)FLUORANTHENE	UG/L	<	2						
BENZO(G.H.I.)PERYLENE	UG/L	<	1						
BENZO(K)FLUORANTHENE	UG/L	<	2						
BIS(2-CL-ETHOXY)METHANE	UG/L	<	2						
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1						
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	7						
DIETHYLHEXYL PHTHALATE	UG/L	<	1						
4-BROMOPHENYL PHENYLETHER	UG/L	<	2						
BUTYLBENZYL PHTHALATE	UG/L	<	2						
2-CHLORONAPHTHALENE	UG/L	<	3						
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2						
CHRYSENE	UG/L	<	1						
DIBENZO(A,H)ANTHRACENE	UG/L	<	1						
3,3'-DICHLOROBENZIDINE	UG/L	<	14	G					
DIETHYL PHTHALATE	UG/L	<	2	G					
DIMETHYL PHTHALATE	UG/L	<	2	G					

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-10% RULE EXCEEDED E-ND = NONE DETECTED
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TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ93506 03/17/95	WELL M29B SJ97729 06/21/95	WELL M29B SJ01551 09/18/95	WELL M29B SJ05575 12/21/95
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L	< 1			
2,4-DINITROTOLUENE	UG/L	< 2			
2,6-DINITROTOLUENE	UG/L	< 2			
DI-N-OCTYL PHTHALATE	UG/L	< 2			
FLUORANTHENE	UG/L	< 2			
FLUORENE	UG/L	< 2			
HEXACHLOROBENZENE	UG/L	< 1			
HEXACHLOROBUTADIENE	UG/L	< 4			
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30			
HEXACHLOROETHANE	UG/L	< 4			
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2			
ISOPHORONE	UG/L	< 1			
NAPHTHALENE	UG/L	< 3			
NITROBENZENE	UG/L	< 2			
N-NITROSODIMETHYLAMINE	UG/L	< 1			
N-NITROSODI-N-PROPYLAMINE	UG/L	< 3			
PHENANTHRENE	UG/L	< 2			
PYRENE	UG/L	< 1			
2-CHLOROPHENOL	UG/L	< 2			
1,2,4-TRICHLOROBENZENE	UG/L	< 4			
2,4-DICHLOROPHENOL	UG/L	< 2			
2,4-DIMETHYLPHENOL	UG/L	< 2			
2,4-DINITROPHENOL	UG/L	< 19			
2-METHYL-4,6DINITROPHENOL	UG/L	< 2			
2-NITROPHENOL	UG/L	< 3			
4-NITROPHENOL	UG/L	< 18			
4-CHLORO-3-METHYLPHENOL	UG/L	< 2			
PENTACHLOROPHENOL	UG/L	< 0.1			
PHENOL	UG/L	< 2			
2,4,6-TRICHLOROPHENOL	UG/L	< 2			
N-NITROSODIPHENYLAMINE	UG/L	< 2			
O-CRESOL	UG/L	< 4			
M+P CRESOL	UG/L	< 3			

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-DUPLICATE SPIKE G-AMENDED TEST RESULT

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M29B SJ93503 03/17/95	WEFI M29B SJ97726 06/21/95	WEFI M29B SJ01548 09/18/95	WEFI M29B SJ05572 12/21/95
CATIONS					
IRON	MG/L FE	0.03			
MANGANESE	MG/L MN	0.28			
METALS					
ARSENIC	MG/L AS	<0.001			
BARIUM	MG/L BA	0.05			
CADMIUM	MG/L CD	<0.003			
TOTAL CHROMIUM	MG/L CR	< 0.01			
COBALT	MG/L CO	< 0.01			
COPPER	MG/L CU	< 0.01			
LEAD	MG/L PB	< 0.02			
MERCURY	MG/L HG	<.0001			
NICKEL	MG/L NI	< 0.02			
SELENIUM	MG/L SE	<0.001			
SILVER	MG/L AG	< 0.01			
ZINC	MG/L ZN	0.01			
ANTIMONY	MG/L SB	<0.001			
BERYLLIUM	MG/L BE	<.0005			
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05

TABLE A.3

WATER QUALITY DATA

BARRIER 3 MONITORING WELLS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ91245 01/30/95	WELL M31A SJ91247 01/30/95	WELL M31A SJ92852 03/06/95	WELL M31A SJ92853 03/06/95	WELL M31A SJ98019 06/28/95	WELL M31A SJ01600 09/19/95	WELL M31A SJ05105 12/11/95	WELL M31A SJ05106 12/11/95
FIELD PARAMETERS									
DEPTH TO WATER	FT	43.30		45.85		47.33	47.3	47.17	
DEPTH TO BOTTOM	FT						76.42	76.3	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	21		19		20	17	19	
FIELD WATER TEMPERATURE	DEG C	20.94		20.99		21.72	23.18	21.4	
FIELD PH	PH	6.38		6.50		6.51	6.64	6.7	
FIELD CONDUCTIVITY	UMHOS/CM	2755		3404		4214	3165	2939	
FIELD DISSOLVED O2	MG/L	0.26		0.33		0.10	0.82	0.31	
DISSOLVED CO2	MG/L			440					
GENERAL									
PH	PH			7.07	7.09	6.75	6.93 G	7.13 G	7.13
CONDUCTIVITY	UMHOS/CM			3320 A	3330				
TOTAL DISSOLVED SOLIDS	MG/L			2755	2753	3488	2517	1915	2213
TOTAL HARDNESS	MG/L CACO3			1830 C	1820 C				
TOTAL CYANIDE	MG/L CN			0.003	0.003				
BORON	MG/L B			0.92	0.89				
ANIONS									
NITRATE NITROGEN	MG/L N			< 0.02 B	0.02 B	0.05 B	< 0.02 B	< 0.02 B	< 0.02 B
SULFATE	MG/L SO4			1120 B	1120 B	1570 B	940 B	780 B	775 B
CHLORIDE	MG/L CL			181 B	181 B	180 B	190 B	187 B	187 B
TOTAL ALKALINITY	MG/L CACO3			792	790				
BICARBONATE ALKALINITY	MG/L CACO3			792	790				
TOTAL SULFIDE	MG/L S			< 0.1	< 0.1 G				
FLUORIDE	MG/L F			0.69	0.71				
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3			974 D	976				
MAGNESIUM-HARDNESS	MG/L CACO3			856 D	844				
SODIUM	MG/L NA			197 D	197				
POTASSIUM	MG/L K			5.1 D	5.1				
IRON	MG/L FE			< 0.02 D	< 0.02				
MANGANESE	MG/L MN			0.49 D	0.48				
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N			< 0.2	< 0.2				

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ91245 01/30/95	WELL M31A SJ91247 01/30/95	WELL M31A SJ92852 03/06/95	WELL M31A SJ92853 03/06/95	WELL M31A SJ98019 06/28/95	WELL M31A SJ01600 09/19/95	WELL M31A SJ05105 12/11/95	WELL M31A SJ05106 12/11/95
ORGANIC MATTER									
TOTAL BOD	MG/L O			< 0.7	< 0.7				
SOLUBLE BOD	MG/L O			< 0.7	< 0.7				
TOTAL COD	MG/L O			10	11				
SOLUBLE COD	MG/L O			11	9				
TOTAL ORGANIC CARBON	MG/L C			3.1	3.0				
OIL & GREASE	MG/L EXTRAC			< 0.9 D	< 0.9				
TOTAL ORGANIC HALOGEN(TOX	UG/L			33 D	35				
METALS									
ARSENIC	MG/L AS			<0.001	<0.001				
BARIUM	MG/L BA			0.06 D	0.06				
CADMIUM	MG/L CD			<0.003 D	<0.003				
TOTAL CHROMIUM	MG/L CR			< 0.01 D	< 0.01				
COBALT	MG/L CO			< 0.01 D	< 0.01				
COPPER	MG/L CU			< 0.01 D	0.01				
LEAD	MG/L PB			< 0.02 D	< 0.02				
MERCURY	MG/L HG			<.0001	<.0001				
NICKEL	MG/L NI			< 0.02 D	< 0.02				
SELENIUM	MG/L SE			0.001	0.001				
SILVER	MG/L AG			< 0.01 D	< 0.01				
ZINC	MG/L ZN			0.03 D	0.02				
ANTIMONY	MG/L SB			<0.001	<0.001				
BERYLLIUM	MG/L BE			.0006	<.0005				
THALLIUM	MG/L TL			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN			< 0.06 D	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V			< 0.05 D	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L			< 0.05	< 0.05				
DINOSEB	UG/L			< 0.1	< 0.1				
THIONAZIN	UG/L			< 1	< 1				
DIMETHOATE	UG/L			< 1	< 1				
DISULFOTON	UG/L			< 1	< 1				
METHYL PARATHION	UG/L			< 1	< 1				
ETHYL PARATHION	UG/L			< 1	< 1				
PHORATE	UG/L			< 1	< 1				
PP'-DDE	UG/L			< 0.01	< 0.01				
PP'-DDD	UG/L			< 0.01	< 0.01				
PP'-DDT	UG/L			< 0.01	< 0.01				

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ91245 01/30/95	WELL M31A SJ91247 01/30/95	WELL M31A SJ92852 03/06/95	WELL M31A SJ92853 03/06/95	WELL M31A SJ98019 06/28/95	WELL M31A SJ01600 09/19/95	WELL M31A SJ05105 12/11/95	WELL M31A SJ05106 12/11/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
ALPHA-BHC	UG/L			< 0.01	< 0.01				
LINDANE (GAMMA-BHC)	UG/L			< 0.01	< 0.01				
HEPTACHLOR	UG/L			< 0.01	< 0.01				
HEPTACHLOR EPOXIDE	UG/L			< 0.01	< 0.01				
ALDRIN	UG/L			< 0.01	< 0.01				
DIELDRIN	UG/L			< 0.01	< 0.01				
ENDRIN	UG/L			< 0.01	< 0.01				
TOXAPHENE	UG/L			< 0.5	< 0.5				
METHOXYCLOR	UG/L			< 0.01	< 0.01				
2,4-D(ACID)	UG/L			< 0.5	< 0.5				
2,4,5-TP(SILVEX)	UG/L			< 0.05	< 0.05				
AROCLOR 1242	UG/L			< 0.1	< 0.1				
AROCLOR 1254	UG/L			< 0.05	< 0.05				
BETA-BHC	UG/L			< 0.01	< 0.01				
DELTA-BHC	UG/L			< 0.01	< 0.01				
ENDOSULFAN I	UG/L			< 0.01	< 0.01				
ENDOSULFAN II	UG/L			< 0.01	< 0.01				
ENDOSULFAN SULFATE	UG/L			< 0.1	< 0.1				
ENDRIN ALDEHYDE	UG/L			< 0.01	< 0.01				
AROCLOR 1016	UG/L			< 0.1	< 0.1				
AROCLOR 1221	UG/L			< 0.1	< 0.1				
AROCLOR 1232	UG/L			< 0.1	< 0.1				
AROCLOR 1248	UG/L			< 0.1	< 0.1				
AROCLOR 1260	UG/L			< 0.1	< 0.1				
TECHNICAL CHLORDANE	UG/L			< 0.05 E	< 0.05 E				
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L			< 100	< 100				
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L			< 1000	< 1000				
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L			< 0.5	< 0.5				
2,2-DICHLOROPROPANE	UG/L			< 0.5	< 0.5				
1,1-DICHLOROPROPENE	UG/L			< 0.5	< 0.5				
ISOBUTYL ALCOHOL	UG/L			< 100	< 100				
METHACRYLONITRILE	UG/L			< 10	< 10				
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L			< 20	< 20				

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ91245 01/30/95	WELL M31A SJ91247 01/30/95	WELL M31A SJ92852 03/06/95	WELL M31A SJ92853 03/06/95	WELL M31A SJ98019 06/28/95	WELL M31A SJ01600 09/19/95	WELL M31A SJ05105 12/11/95	WELL M31A SJ05106 12/11/95
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L			< 10	< 10				
ETHYL METHACRYLATE	UG/L			< 10	< 10				
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	2.4	2.7	6	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	0.6	< 0.5	< 0.5	0.5	0.5	< 0.3	0.5	0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L			< 0.5	< 0.5				
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	0.5	0.6	< 0.5	< 0.5	< 0.3	< 0.3	0.5	0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L			< 1	< 1				
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L			< 200	< 200				
ACRYLONITRILE	UG/L	< 50	< 50	< 50	< 50	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L			< 100	< 100				
FREON 12 (CCL2F2)	UG/L			< 0.5	< 0.5				
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M31A SJ91245 01/30/95	WELL M31A SJ91247 01/30/95	WELL M31A SJ92852 03/06/95	WELL M31A SJ92853 03/06/95	WELL M31A SJ98019 06/28/95	WELL M31A SJ01600 09/19/95	WELL M31A SJ05105 12/11/95	WELL M31A SJ05106 12/11/95
VOLATILE ORGANIC COMPOUNDS										
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		1.4	1.3	9.3	9.7	19	< 1	2	2
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L				< 2	< 2				
M+P-XYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE										
ACETOPHENONE	UG/L				< 4	< 4				
2-ACETYLAMINOFLUORENE	UG/L				< 3	< 3				
4-AMINOBIPHENYL	UG/L				< 5	< 5				
BENZYL ALCOHOL	UG/L				< 5	< 5				
P-CHLOROANILINE	UG/L				< 6	< 6				
CHLOROBENZILATE	UG/L				< 3	< 3				
DIALLATE	UG/L				< 4	< 4				
DIBENZOFURAN	UG/L				< 4	< 4				
2,6-DICHLOROPHENOL	UG/L				< 4 F	< 4 F				
P(DIMETHYLAMINO)AZOBENZEN	UG/L				< 4	< 4				
7,12-DIMETHYLBENZ(A)ANTHR	UG/L				< 15	< 15				
3,3'-DIMETHYLBENZIDINE	UG/L				< 4	< 4				
M-DINITROBENZENE	UG/L				< 4	< 4				
DIPHENYLAMINE	UG/L				< 10	< 10				
ETHYL METHANESULFONATE	UG/L				< 4	< 4				
FAMPHUR	UG/L				< 50	< 50				
HEXACHLOROPROPENE	UG/L				< 20	< 20				
ISODRIN	UG/L				< 5	< 5				
ISOSAFROLE	UG/L				< 5	< 5				
KEPONE	UG/L				< 50	< 50				
METHAPYRILENE	UG/L				< 5	< 5				
3-METHYLCHOLANTHRENE	UG/L				< 13 F	< 13 F				
METHYL METHANESULFONATE	UG/L				< 11	< 11				
2-METHYLNAPHTHALENE	UG/L				< 5	< 5				
1,4-NAPHTHOQUINONE	UG/L				< 8	< 8				
1-NAPHTHYLAMINE	UG/L				< 4	< 4				
2-NAPHTHYLAMINE	UG/L				< 4	< 4				
O-NITROANILINE	UG/L				< 4	< 4				

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ91245 01/30/95	WELL M31A SJ91247 01/30/95	WELL M31A SJ92852 03/06/95	WELL M31A SJ92853 03/06/95	WELL M31A SJ98019 06/28/95	WELL M31A SJ01600 09/19/95	WELL M31A SJ05105 12/11/95	WELL M31A SJ05106 12/11/95
ACID-BASE NEUTRAL EXTRACTABLE									
M-NITROANILINE	UG/L			< 4	< 4				
P-NITROANILINE	UG/L			< 4	< 4				
N-NITROSODI-N-BUTYLAMINE	UG/L			< 5	< 5				
N-NITROSODIETHYLAMINE	UG/L			< 5	< 5				
N-NITROSOMETHYLETHYLAMINE	UG/L			< 6	< 6				
N-NITROSOPIPERIDINE	UG/L			< 5	< 5				
N-NITROSOPYRROLIDINE	UG/L			< 5	< 5				
5-NITRO-O-TOLUIDINE	UG/L			< 5	< 5				
PENTACHLOROBENZENE	UG/L			< 4	< 4				
PENTACHLORONITROBENZENE	UG/L			< 4	< 4				
PHENACETIN	UG/L			< 4	< 4				
P-PHENYLENEDIAMINE	UG/L			< 20	< 20				
PRONAMIDE	UG/L			< 5	< 5				
SAFROLE	UG/L			< 5	< 5				
1,2,4,5-TETRACHLOROBENZEN	UG/L			< 5	< 5				
2,3,4,6-TETRACHLOROPHENOL	UG/L			< 5	< 5				
O-TOLUIDINE	UG/L			< 5	< 5				
O,O,O-TRIETHYLPHOSPHOROTH	UG/L			< 5	< 5				
SYM-TRINITROBENZENE	UG/L			< 48	< 48				
ACENAPHTHENE	UG/L			< 2	< 2				
ACENAPHTHYLENE	UG/L			< 2	< 2				
ANTHRACENE	UG/L			< 2	< 2				
BENZIDINE	UG/L			< 62	< 62				
BENZO(A)ANTHRACENE	UG/L			< 2	< 2				
BENZO(A)PYRENE	UG/L			< 0.3	< 0.3				
BENZO(B)FLUORANTHENE	UG/L			< 2	< 2				
BENZO(G.H.I.)PERYLENE	UG/L			< 1	< 1				
BENZO(K)FLUORANTHENE	UG/L			< 2	< 2				
BIS(2-CL-ETHOXY)METHANE	UG/L			< 2	< 2				
BIS(2-CHLOROETHYL)ETHER	UG/L			< 1	< 1				
BIS(2-CL-ISOPROPYL)ETHER	UG/L			< 7	< 7				
DIETHYLHEXYL PHTHALATE	UG/L			< 1	< 1				
4-BROMOPHENYL PHENYLETHER	UG/L			< 2	< 2				
BUTYLBENZYL PHTHALATE	UG/L			< 2	< 2				
2-CHLORONAPHTHALENE	UG/L			< 3	< 3				
4-CHLOROPHENYLPHENYLETHER	UG/L			< 2	< 2				
CHRYSENE	UG/L			< 1	< 1				
DIBENZO(A,H)ANTHRACENE	UG/L			< 1	< 1				
3,3'-DICHLOROBENZIDINE	UG/L			< 14 F	< 14 F				
DIETHYL PHTHALATE	UG/L			< 2 F	< 2 F				
DIMETHYL PHTHALATE	UG/L			< 2 F	< 2 F				

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ91245 01/30/95	WELL M31A SJ91247 01/30/95	WELL M31A SJ92852 03/06/95	WELL M31A SJ92853 03/06/95	WELL M31A SJ98019 06/28/95	WELL M31A SJ01600 09/19/95	WELL M31A SJ05105 12/11/95	WELL M31A SJ05106 12/11/95
ACID-BASE NEUTRAL EXTRACTABLE									
DI-N-BUTYL PHTHALATE	UG/L			< 1	< 1				
2,4-DINITROTOLUENE	UG/L			< 2	< 2				
2,6-DINITROTOLUENE	UG/L			< 2	< 2				
DI-N-OCTYL PHTHALATE	UG/L			< 2	< 2				
FLUORANTHENE	UG/L			< 2	< 2				
FLUORENE	UG/L			< 2	< 2				
HEXACHLOROBENZENE	UG/L			< 1	< 1				
HEXACHLOROBUTADIENE	UG/L			< 4	< 4				
HEXACHLOROCYCLOPENTADIENE	UG/L			< 30	< 30				
HEXACHLOROETHANE	UG/L			< 4	< 4				
INDENO(1,2,3-C,D)PYRENE	UG/L			< 2	< 2				
ISOPHORONE	UG/L			< 1	< 1				
NAPHTHALENE	UG/L			< 3	< 3				
NITROBENZENE	UG/L			< 2	< 2				
N-NITROSODIMETHYLAMINE	UG/L			< 1	< 1				
N-NITROSODI-N-PROPYLAMINE	UG/L			< 3	< 3				
PHENANTHRENE	UG/L			< 2	< 2				
PYRENE	UG/L			< 1	< 1				
2-CHLOROPHENOL	UG/L			< 2 F	< 2				
1,2,4-TRICHLOROBENZENE	UG/L			< 4	< 4				
2,4-DICHLOROPHENOL	UG/L			< 2	< 2				
2,4-DIMETHYLPHENOL	UG/L			< 2	< 2				
2,4-DINITROPHENOL	UG/L			< 19	< 19				
2-METHYL-4,6DINITROPHENOL	UG/L			< 2	< 2				
2-NITROPHENOL	UG/L			< 3	< 3				
4-NITROPHENOL	UG/L			< 18	< 18				
4-CHLORO-3-METHYLPHENOL	UG/L			< 2	< 2				
PENTACHLOROPHENOL	UG/L			< 0.1	< 0.1				
PHENOL	UG/L			< 2	< 2				
2,4,6-TRICHLOROPHENOL	UG/L			< 2	< 2				
N-NITROSODIPHENYLAMINE	UG/L			< 2	< 2				
O-CRESOL	UG/L			< 4	< 4				
M+P CRESOL	UG/L			< 3	< 3				

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M31A SJ92849 03/06/95	WEFI M31A SJ92850 03/06/95	WEFI M31A SJ98016 06/28/95	WEFI M31A SJ01597 09/19/95	WEFI M31A SJ05102 12/11/95	WEFI M31A SJ05103 12/11/95
CATIONS							
IRON	MG/L FE	< 0.02	< 0.02				
MANGANESE	MG/L MN	0.51	0.52				
METALS							
ARSENIC	MG/L AS	<0.001	<0.001				
BARIUM	MG/L BA	0.06	0.06				
CADMIUM	MG/L CD	<0.003	<0.003				
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01				
COBALT	MG/L CO	< 0.01	< 0.01				
COPPER	MG/L CU	< 0.01	< 0.01				
LEAD	MG/L PB	< 0.02	< 0.02				
MERCURY	MG/L HG	<.0001	<.0001				
NICKEL	MG/L NI	< 0.02	< 0.02				
SELENIUM	MG/L SE	0.001	0.001				
SILVER	MG/L AG	< 0.01	< 0.01				
ZINC	MG/L ZN	0.02	0.02				
ANTIMONY	MG/L SB	<0.001	<0.001				
BERYLLIUM	MG/L BE	<.0005	<.0005				
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ93483 03/17/95		WELL R32B SJ93484 03/17/95		WELL R32B SJ97720 06/21/95		WELL R32B SJ01356 09/13/95		WELL R32B SJ05128 12/11/95	
FIELD PARAMETERS											
DEPTH TO WATER	FT	31.13				35.43		35.69		34.77	
DEPTH TO BOTTOM	FT							130.0		130.0	
PERCENT METHANE IN GAS	%CH4	< 0.1				< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	13				7		10		14	
FIELD WATER TEMPERATURE	DEG C	20.99				21.76		25.58		21.27	
FIELD PH	PH	7.01				7.17		7.08		7.26	
FIELD CONDUCTIVITY	UMHOS/CM	3795				3659		3222		3683	
FIELD DISSOLVED O2	MG/L	0.14				0.07		1.01		0.25	
DISSOLVED CO2	MG/L	45				28		29		22	
GENERAL											
PH	PH	7.99		7.66		7.62		7.83	C	7.71	
CONDUCTIVITY	UMHOS/CM	3620	A	3620		3570		3540	A	3590	
TOTAL DISSOLVED SOLIDS	MG/L	2969		2971		2936		2999		2991	
TOTAL HARDNESS	MG/L CACO3	1614		1624		1602	H	1582	H	1702	H
TOTAL CYANIDE	MG/L CN	<0.002		<0.002		<0.002		<0.002		<0.002	
BORON	MG/L B	0.30		0.39		0.42	A	0.60		0.28	
ANIONS											
NITRATE NITROGEN	MG/L N	< 0.02	B	< 0.02	B	< 0.02	B	< 0.02	B	< 0.02	B
SULFATE	MG/L SO4	1610	B	1610	B	1570	B	1570	B	1580	B
CHLORIDE	MG/L CL	261	B	261	B	263	B	265	B	261	B
TOTAL ALKALINITY	MG/L CACO3	261	A	263		234		201		225	
BICARBONATE ALKALINITY	MG/L CACO3	261		263		234		201		225	
TOTAL SULFIDE	MG/L S	< 0.1	C	< 0.1		< 0.1		< 0.1	C	< 0.1	C
FLUORIDE	MG/L F	0.26		0.27		0.17	A	0.26		0.25	
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3	584	D	584		582		572		602	
MAGNESIUM-HARDNESS	MG/L CACO3	1030	D	1040		1020		1010		1100	
SODIUM	MG/L NA	322	D	318		332		328		336	
POTASSIUM	MG/L K	6.7	D	6.6		6.5		6.4		6.9	
IRON	MG/L FE	1.30	D	1.26		1.28	B	1.38		1.57	
MANGANESE	MG/L MN	0.08	D	0.08		0.07		0.08		0.08	
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N	2.3		2.0	F	< 0.1		2.0		1.9	

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TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ93483 03/17/95	WELL R32B SJ93484 03/17/95	WELL R32B SJ97720 06/21/95	WELL R32B SJ01356 09/13/95	WELL R32B SJ05128 12/11/95
ORGANIC MATTER						
TOTAL BOD	MG/L O	2	1	2	3	5
SOLUBLE BOD	MG/L O	< 0.7	< 0.7	1 C	< 0.7	1
TOTAL COD	MG/L O	10	8	8	8	22
SOLUBLE COD	MG/L O	10	7	6	8	10
TOTAL ORGANIC CARBON	MG/L C	1.5	1.6	1.1	1.5	1.2
OIL & GREASE	MG/L EXTRAC	4.0	< 0.9	1.1 D	1.0	< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L	10 D	35 G	20 G	20 G	9.3 G
METALS						
ARSENIC	MG/L AS	<0.001	<0.001	<.0010	<.0010	<.0010
BARIUM	MG/L BA	0.01 D	0.01	0.01	0.01	0.01
CADMIUM	MG/L CD	<0.003 D	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01 D	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01 D	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01 D	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02 D	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001 D	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.02 D	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L SE	<0.001	<0.001	<.0010	<.0010	<.0010
SILVER	MG/L AG	< 0.01 D	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01 D	< 0.01	0.01	0.01	0.02
ANTIMONY	MG/L SB	<0.001	<0.001	<.0010	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06 D	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05 D	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L	< 0.05	< 0.05			
DINOSEB	UG/L	< 0.1	< 0.1			
THIONAZIN	UG/L	< 1	< 1			
DIMETHOATE	UG/L	< 1	< 1			
DISULFOTON	UG/L	< 1	< 1			
METHYL PARATHION	UG/L	< 1	< 1			
ETHYL PARATHION	UG/L	< 1	< 1			
PHORATE	UG/L	< 1	< 1			
PP'-DDE	UG/L	< 0.01	< 0.01			
PP'-DDD	UG/L	< 0.01	< 0.01			
PP'-DDT	UG/L	< 0.01	< 0.01			

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TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ93483 03/17/95	WELL R32B SJ93484 03/17/95	WELL R32B SJ97720 06/21/95	WELL R32B SJ01356 09/13/95	WELL R32B SJ05128 12/11/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L	< 0.01	< 0.01			
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01			
HEPTACHLOR	UG/L	< 0.01	< 0.01			
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01			
ALDRIN	UG/L	< 0.01	< 0.01			
DIELDRIN	UG/L	< 0.01	< 0.01			
ENDRIN	UG/L	< 0.01	< 0.01			
TOXAPHENE	UG/L	< 0.5	< 0.5			
METHOXYCLOR	UG/L	< 0.01	< 0.01			
2,4-D(ACID)	UG/L	< 0.5	< 0.5			
2,4,5-TP(SILVEX)	UG/L	< 0.05	< 0.05			
AROCLOR 1242	UG/L	< 0.1	< 0.1			
AROCLOR 1254	UG/L	< 0.05	< 0.05			
BETA-BHC	UG/L	< 0.01	< 0.01			
DELTA-BHC	UG/L	< 0.01	< 0.01			
ENDOSULFAN I	UG/L	< 0.01	< 0.01			
ENDOSULFAN II	UG/L	< 0.01	< 0.01			
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1			
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01			
AROCLOR 1016	UG/L	< 0.1	< 0.1			
AROCLOR 1221	UG/L	< 0.1	< 0.1			
AROCLOR 1232	UG/L	< 0.1	< 0.1			
AROCLOR 1248	UG/L	< 0.1	< 0.1			
AROCLOR 1260	UG/L	< 0.1	< 0.1			
TECHNICAL CHLORDANE	UG/L	< 0.05 E	< 0.05 E			
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L	< 100	< 100			
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 1000	< 1000			
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.5	< 0.5			
2,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5			
1,1-DICHLOROPROPENE	UG/L	< 0.5	< 0.5			
ISOBUTYL ALCOHOL	UG/L	< 100	< 100			
METHACRYLONITRILE	UG/L	< 10	< 10			
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 20	< 20			

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WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ93483 03/17/95	WELL R32B SJ93484 03/17/95	WELL R32B SJ97720 06/21/95	WELL R32B SJ01356 09/13/95	WELL R32B SJ05128 12/11/95
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10	< 10			
ETHYL METHACRYLATE	UG/L	< 10	< 10			
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5			
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1	< 1			
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200	< 200			
ACRYLONITRILE	UG/L	< 50	< 50	< 10	< 10	< 10
ACETONITRILE	UG/L	< 100	< 100			
FREON 12 (CCL2F2)	UG/L	< 0.5	< 0.5			
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1

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WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL R32B SJ93483 03/17/95		WELL R32B SJ93484 03/17/95		WELL R32B SJ97720 06/21/95		WELL R32B SJ01356 09/13/95		WELL R32B SJ05128 12/11/95	
VOLATILE ORGANIC COMPOUNDS												
1,2-DIBROMOETHANE	UG/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
ACETONE	UG/L		< 10		< 10		< 10		< 10		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5		< 0.5		< 1		< 1		< 1	
2-BUTANONE	UG/L		< 10		< 10		< 10		< 10		< 10	
4-METHYL-2-PENTANONE	UG/L		< 10		< 10		< 10		< 10		< 10	
STYRENE	UG/L		< 0.5		< 0.5		< 1		< 1		< 1	
2,4,5-TRICHLOROPHENOL	UG/L		< 2		< 2							
M+P-XYLENE	UG/L		< 0.5		< 0.5		< 1		< 1		< 1	
CARBON DISULFIDE	UG/L	CS2	< 0.5		< 0.5		< 1		< 1		< 1	
2-HEXANONE	UG/L	C6H12O	< 10		< 10		< 5		< 5		< 5	
ACID-BASE NEUTRAL EXTRACTABLE												
ACETOPHENONE	UG/L		< 4		< 4							
2-ACETYLAMINOFLUORENE	UG/L		< 3		< 3							
4-AMINOBIPHENYL	UG/L		< 5		< 5							
BENZYL ALCOHOL	UG/L		< 5		< 5							
P-CHLOROANILINE	UG/L		< 6		< 6							
CHLOROBENZILATE	UG/L		< 3		< 3							
DIALLATE	UG/L		< 4		< 4							
DIBENZOFURAN	UG/L		< 4		< 4							
2,6-DICHLOROPHENOL	UG/L		< 4	F	< 4	F						
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4		< 4							
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15		< 15							
3,3'-DIMETHYLBENZIDINE	UG/L		< 4		< 4							
M-DINITROBENZENE	UG/L		< 4		< 4							
DIPHENYLAMINE	UG/L		< 10		< 10							
ETHYL METHANESULFONATE	UG/L		< 4		< 4							
FAMPHUR	UG/L		< 50		< 50							
HEXACHLOROPROPENE	UG/L		< 20		< 20							
ISODRIN	UG/L		< 5		< 5							
ISOSAFROLE	UG/L		< 5		< 5							
KEPONE	UG/L		< 50		< 50							
METHAPYRILENE	UG/L		< 5		< 5							
3-METHYLCHOLANTHRENE	UG/L		< 13		< 13							
METHYL METHANESULFONATE	UG/L		< 11	F	< 11							
2-METHYLNAPHTHALENE	UG/L		< 5		< 5							
1,4-NAPHTHOQUINONE	UG/L		< 8		< 8							
1-NAPHTHYLAMINE	UG/L		< 4		< 4							
2-NAPHTHYLAMINE	UG/L		< 4		< 4							
O-NITROANILINE	UG/L		< 4		< 4							

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-10% RULE EXCEEDED H-CALCULATED VALUE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ93483 03/17/95		WELL R32B SJ93484 03/17/95		WELL R32B SJ97720 06/21/95		WELL R32B SJ01356 09/13/95		WELL R32B SJ05128 12/11/95	
ACID-BASE NEUTRAL EXTRACTABLE											
M-NITROANILINE	UG/L	<	4	<	4						
P-NITROANILINE	UG/L	<	4	<	4						
N-NITROSODI-N-BUTYLAMINE	UG/L	<	5	<	5						
N-NITROSODIETHYLAMINE	UG/L	<	5	<	5						
N-NITROSOMETHYLETHYLAMINE	UG/L	<	6	<	6						
N-NITROSOPIPERIDINE	UG/L	<	5	<	5						
N-NITROSOPYRROLIDINE	UG/L	<	5	<	5						
5-NITRO-O-TOLUIDINE	UG/L	<	5	<	5						
PENTACHLOROBENZENE	UG/L	<	4	<	4						
PENTACHLORONITROBENZENE	UG/L	<	4	<	4						
PHENACETIN	UG/L	<	4	<	4						
P-PHENYLENEDIAMINE	UG/L	<	20	<	20						
PRONAMIDE	UG/L	<	5	<	5						
SAFROLE	UG/L	<	5	<	5						
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	5	<	5						
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	5	<	5						
O-TOLUIDINE	UG/L	<	5	<	5						
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5	<	5						
SYM-TRINITROBENZENE	UG/L	<	48	<	48						
ACENAPHTHENE	UG/L	<	2	<	2						
ACENAPHTHYLENE	UG/L	<	2	<	2						
ANTHRACENE	UG/L	<	2	<	2						
BENZIDINE	UG/L	<	62	<	62						
BENZO(A)ANTHRACENE	UG/L	<	2	<	2						
BENZO(A)PYRENE	UG/L	<	0.3	<	0.3						
BENZO(B)FLUORANTHENE	UG/L	<	2	<	2						
BENZO(G.H.I.)PERYLENE	UG/L	<	1	<	1						
BENZO(K)FLUORANTHENE	UG/L	<	2	<	2						
BIS(2-CL-ETHOXY)METHANE	UG/L	<	2	<	2						
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1	F <	1						
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	7	<	7						
DIETHYLHEXYL PHTHALATE	UG/L	<	1	<	1						
4-BROMOPHENYL PHENYLETHER	UG/L	<	2	<	2						
BUTYLBENZYL PHTHALATE	UG/L	<	2	<	2						
2-CHLORONAPHTHALENE	UG/L	<	3	<	3						
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2	<	2						
CHRYSENE	UG/L	<	1	<	1						
DIBENZO(A,H)ANTHRACENE	UG/L	<	1	<	1						
3,3'-DICHLOROBENZIDINE	UG/L	<	14	F <	14						
DIETHYL PHTHALATE	UG/L	<	2	F <	2						
DIMETHYL PHTHALATE	UG/L	<	2	F <	2						

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-10% RULE EXCEEDED H-CALCULATED VALUE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ93483 03/17/95		WELL R32B SJ93484 03/17/95		WELL R32B SJ97720 06/21/95	WELL R32B SJ01356 09/13/95	WELL R32B SJ05128 12/11/95
ACID-BASE NEUTRAL EXTRACTABLE								
DI-N-BUTYL PHTHALATE	UG/L	<	2 F	<	2 F			
2,4-DINITROTOLUENE	UG/L	<	2	<	2			
2,6-DINITROTOLUENE	UG/L	<	2	<	2			
DI-N-OCTYL PHTHALATE	UG/L	<	2	<	2			
FLUORANTHENE	UG/L	<	2	<	2			
FLUORENE	UG/L	<	2	<	2			
HEXACHLOROBENZENE	UG/L	<	1	<	1			
HEXACHLOROBUTADIENE	UG/L	<	4	<	4			
HEXACHLOROCYCLOPENTADIENE	UG/L	<	30	<	30			
HEXACHLOROETHANE	UG/L	<	4	<	4			
INDENO(1,2,3-C,D)PYRENE	UG/L	<	2	<	2			
ISOPHORONE	UG/L	<	1	<	1			
NAPHTHALENE	UG/L	<	3	<	3			
NITROBENZENE	UG/L	<	2	<	2			
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	1			
N-NITROSODI-N-PROPYLAMINE	UG/L	<	3	<	3			
PHENANTHRENE	UG/L	<	2	<	2			
PYRENE	UG/L	<	1	<	1			
2-CHLOROPHENOL	UG/L	<	2	<	2			
1,2,4-TRICHLOROBENZENE	UG/L	<	4	<	4			
2,4-DICHLOROPHENOL	UG/L	<	2	<	2			
2,4-DIMETHYLPHENOL	UG/L	<	2	<	2			
2,4-DINITROPHENOL	UG/L	<	19	<	19			
2-METHYL-4,6DINITROPHENOL	UG/L	<	2	<	2			
2-NITROPHENOL	UG/L	<	3	<	3			
4-NITROPHENOL	UG/L	<	18	<	18			
4-CHLORO-3-METHYLPHENOL	UG/L	<	2	<	2			
PENTACHLOROPHENOL	UG/L	<	0.1	<	0.1			
PHENOL	UG/L	<	2	<	2			
2,4,6-TRICHLOROPHENOL	UG/L	<	2	<	2			
N-NITROSODIPHENYLAMINE	UG/L	<	2	<	2			
O-CRESOL	UG/L	<	4	<	4			
M+P CRESOL	UG/L	<	3	<	3			

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-DUPLICATE SPIKE E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-10% RULE EXCEEDED H-CALCULATED VALUE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI R32B SJ93480 03/17/95	WEFI R32B SJ93481 03/17/95	WEFI R32B SJ97717 06/21/95	WEFI R32B SJ01355 09/13/95	WEFI R32B SJ05126 12/11/95
CATIONS						
IRON	MG/L FE	1.07	1.22	1.26 A	1.19	1.35 B
MANGANESE	MG/L MN	0.07	0.07	0.07	0.08	0.08 B
METALS						
ARSENIC	MG/L AS	<0.001	<0.001	<.0010	<.0010	<.0010
BARIUM	MG/L BA	0.01	0.01	0.01	0.01	0.01 B
CADMIUM	MG/L CD	<0.003	<0.003	<0.003	<0.003	<0.003 B
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 B
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 B
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 B
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02 B
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02 B
SELENIUM	MG/L SE	<0.001	<0.001	<.0010	<.0010	<.0010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 B
ZINC	MG/L ZN	< 0.01	< 0.01	< 0.01	< 0.01	0.02 B
ANTIMONY	MG/L SB	<0.001	<0.001	<.0010	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06 B
VANADIUM	MG/L V	< 0.05	< 0.02	< 0.05	< 0.05	< 0.05 B

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ91246 01/30/95	WELL M33A SJ92854 03/06/95	WELL M33A SJ98020 06/28/95	WELL M33A SJ98021 06/28/95	WELL M33A SJ01601 09/19/95	WELL M33A SJ01602 09/19/95	WELL M33A SJ05107 12/11/95
FIELD PARAMETERS								
DEPTH TO WATER	FT	45.19	46.77	48.90		48.97		48.88
DEPTH TO BOTTOM	FT					81.02		80.97
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1		< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	20	19	20		18		20
FIELD WATER TEMPERATURE	DEG C	21.59	21.43	21.83		24.45		21.27
FIELD PH	PH	6.46	6.69	6.84		6.75		6.72
FIELD CONDUCTIVITY	UMHOS/CM	2637	2568	2730		2646		2629
FIELD DISSOLVED O2	MG/L	1.74	1.78	1.06		0.32		0.3
DISSOLVED CO2	MG/L		228					
GENERAL								
PH	PH		7.22 A	7.06 A	7.06	6.93	6.92	7.14
CONDUCTIVITY	UMHOS/CM		2550					
TOTAL DISSOLVED SOLIDS	MG/L		1903	1905 F	1866	1918	1889	2200
TOTAL HARDNESS	MG/L CACO3		1181 C					
TOTAL CYANIDE	MG/L CN		<0.002					
BORON	MG/L B		0.96					
ANIONS								
NITRATE NITROGEN	MG/L N		0.38 B	0.35 G	0.34 G	0.22 G	0.22 G	0.19 G
SULFATE	MG/L SO4		632 B	642 G	643 G	632 G	637 G	637 G
CHLORIDE	MG/L CL		179 B	177 G	177 G	180 G	180 G	183 G
TOTAL ALKALINITY	MG/L CACO3		635					
BICARBONATE ALKALINITY	MG/L CACO3		635					
TOTAL SULFIDE	MG/L S		< 0.1					
FLUORIDE	MG/L F		0.91					
CATIONS								
CALCIUM-HARDNESS	MG/L CACO3		627					
MAGNESIUM-HARDNESS	MG/L CACO3		556					
SODIUM	MG/L NA		193					
POTASSIUM	MG/L K		4.5					
IRON	MG/L FE		0.09					
MANGANESE	MG/L MN		0.35					
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N		< 0.2					

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUP & SPIKE G-AVERAGE H-SAMPLE LOST

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ91246 01/30/95	WELL M33A SJ92854 03/06/95	WELL M33A SJ98020 06/28/95	WELL M33A SJ98021 06/28/95	WELL M33A SJ01601 09/19/95	WELL M33A SJ01602 09/19/95	WELL M33A SJ05107 12/11/95
ORGANIC MATTER								
TOTAL BOD	MG/L O		< 0.7					
SOLUBLE BOD	MG/L O		< 0.7					
TOTAL COD	MG/L O		13					
SOLUBLE COD	MG/L O		13					
TOTAL ORGANIC CARBON	MG/L C		4.2 B					
OIL & GREASE	MG/L EXTRAC		< 0.9					
TOTAL ORGANIC HALOGEN(TOX	UG/L		57					
METALS								
ARSENIC	MG/L AS		0.002					
BARIUM	MG/L BA		0.04					
CADMIUM	MG/L CD		<0.003					
TOTAL CHROMIUM	MG/L CR		< 0.01					
COBALT	MG/L CO		< 0.01					
COPPER	MG/L CU		< 0.01					
LEAD	MG/L PB		< 0.02					
MERCURY	MG/L HG		<.0001 B					
NICKEL	MG/L NI		< 0.02					
SELENIUM	MG/L SE		<0.001					
SILVER	MG/L AG		< 0.01					
ZINC	MG/L ZN		< 0.01					
ANTIMONY	MG/L SB		<0.001					
BERYLLIUM	MG/L BE		<.0005					
THALLIUM	MG/L TL		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06 B	< 0.06
VANADIUM	MG/L V		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 B	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
2,4,5-T	UG/L		< 0.05					
DINOSEB	UG/L		< 0.1					
THIONAZIN	UG/L		< 1					
DIMETHOATE	UG/L		< 1					
DISULFOTON	UG/L		< 1					
METHYL PARATHION	UG/L		< 1					
ETHYL PARATHION	UG/L		< 1					
PHORATE	UG/L		< 1					
PP'-DDE	UG/L		< 0.01					
PP'-DDD	UG/L		< 0.01					
PP'-DDT	UG/L		< 0.01					

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUP & SPIKE G-AVERAGE H-SAMPLE LOST

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ91246 01/30/95	WELL M33A SJ92854 03/06/95	WELL M33A SJ98020 06/28/95	WELL M33A SJ98021 06/28/95	WELL M33A SJ01601 09/19/95	WELL M33A SJ01602 09/19/95	WELL M33A SJ05107 12/11/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
ALPHA-BHC	UG/L		< 0.01					
LINDANE (GAMMA-BHC)	UG/L		< 0.01					
HEPTACHLOR	UG/L		< 0.01					
HEPTACHLOR EPOXIDE	UG/L		< 0.01					
ALDRIN	UG/L		< 0.01					
DIELDRIN	UG/L		< 0.01					
ENDRIN	UG/L		< 0.01					
TOXAPHENE	UG/L		< 0.5					
METHOXYCLOR	UG/L		< 0.01					
2,4-D(ACID)	UG/L		< 0.5					
2,4,5-TP(SILVEX)	UG/L		< 0.05					
AROCLOR 1242	UG/L		< 0.1					
AROCLOR 1254	UG/L		< 0.05					
BETA-BHC	UG/L		< 0.01					
DELTA-BHC	UG/L		< 0.01					
ENDOSULFAN I	UG/L		< 0.01					
ENDOSULFAN II	UG/L		< 0.01					
ENDOSULFAN SULFATE	UG/L		< 0.1					
ENDRIN ALDEHYDE	UG/L		< 0.01					
AROCLOR 1016	UG/L		< 0.1					
AROCLOR 1221	UG/L		< 0.1					
AROCLOR 1232	UG/L		< 0.1					
AROCLOR 1248	UG/L		< 0.1					
AROCLOR 1260	UG/L		< 0.1					
TECHNICAL CHLORDANE	UG/L		< 0.05 D					
VOLATILE ORGANIC COMPOUNDS								
ALLYL CHLORIDE	UG/L		< 100					
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H < 1	
CHLOROPRENE	UG/L		< 1000					
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 1	< 1	< 1	H < 1	
1,3-DICHLOROPROPANE	UG/L		< 0.5					
2,2-DICHLOROPROPANE	UG/L		< 0.5					
1,1-DICHLOROPROPENE	UG/L		< 0.5					
ISOBUTYL ALCOHOL	UG/L		< 100					
METHACRYLONITRILE	UG/L		< 10					
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H < 1	
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H < 1	
PROPIONITRILE	UG/L		< 20					

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUP & SPIKE G-AVERAGE H-SAMPLE LOST

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ91246 01/30/95	WELL M33A SJ92854 03/06/95	WELL M33A SJ98020 06/28/95	WELL M33A SJ98021 06/28/95	WELL M33A SJ01601 09/19/95	WELL M33A SJ01602 09/19/95	WELL M33A SJ05107 12/11/95
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
METHYL METHACRYLATE	UG/L		< 10					
ETHYL METHACRYLATE	UG/L		< 10					
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 1	< 1	< 1	H	< 1
CHLOROFORM	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3	H	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
BROMOFORM	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	0.5	0.4	0.4	H	0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
M-DICHLOROBENZENE	UG/L		< 0.5					
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
1,2-DICHLOROETHANE	UG/L	0.6	0.6	< 0.3	1	1	H	0.8
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	H	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	H	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	H	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	H	< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1					
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	H	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1	< 1	< 1	H	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	H	< 0.5
ACROLEIN	UG/L		< 200					
ACRYLONITRILE	UG/L	< 50	< 50	< 10	< 10	< 10	H	< 10
ACETONITRILE	UG/L		< 100					
FREON 12 (CCL2F2)	UG/L		< 0.5					
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	H	< 1

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUP & SPIKE G-AVERAGE H-SAMPLE LOST

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M33A SJ91246 01/30/95	WELL M33A SJ92854 03/06/95	WELL M33A SJ98020 06/28/95	WELL M33A SJ98021 06/28/95	WELL M33A SJ01601 09/19/95	WELL M33A SJ01602 09/19/95	WELL M33A SJ05107 12/11/95
VOLATILE ORGANIC COMPOUNDS									
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	H < 10	H < 10
CIS-1,2-DICHLOROETHYLENE	UG/L		0.5	0.5	1	1	1	H < 1	H < 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	H < 10	H < 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	H < 10	H < 10
STYRENE	UG/L		< 0.5	< 0.5	< 1	< 1	< 1	H < 1	H < 1
2,4,5-TRICHLOROPHENOL	UG/L			< 2					
M+P-XYLENE	UG/L		< 0.5	< 0.5	< 1	< 1	< 1	H < 1	H < 1
CARBON DISULFIDE	UG/L	CS2	< 0.5	< 0.5	< 1	< 1	< 1	H < 1	H < 1
2-HEXANONE	UG/L	C6H12O	< 10	< 10	< 5	< 5	< 5	H < 5	H < 5
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L			< 4					
2-ACETYLAMINOFLUORENE	UG/L			< 3					
4-AMINOBIPHENYL	UG/L			< 5					
BENZYL ALCOHOL	UG/L			< 5					
P-CHLOROANILINE	UG/L			< 6					
CHLOROBENZILATE	UG/L			< 3					
DIALLATE	UG/L			< 4					
DIBENZOFURAN	UG/L			< 4					
2,6-DICHLOROPHENOL	UG/L			< 4 E					
P(DIMETHYLAMINO)AZOBENZEN	UG/L			< 4					
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			< 15					
3,3'-DIMETHYLBENZIDINE	UG/L			< 4					
M-DINITROBENZENE	UG/L			< 4					
DIPHENYLAMINE	UG/L			< 10					
ETHYL METHANESULFONATE	UG/L			< 4					
FAMPHUR	UG/L			< 50					
HEXACHLOROPROPENE	UG/L			< 20					
ISODRIN	UG/L			< 5					
ISOSAFROLE	UG/L			< 5					
KEPONE	UG/L			< 50					
METHAPYRILENE	UG/L			< 5					
3-METHYLCHOLANTHRENE	UG/L			< 13 E					
METHYL METHANESULFONATE	UG/L			< 11					
2-METHYLNAPHTHALENE	UG/L			< 5					
1,4-NAPHTHOQUINONE	UG/L			< 8					
1-NAPHTHYLAMINE	UG/L			< 4					
2-NAPHTHYLAMINE	UG/L			< 4					
O-NITROANILINE	UG/L			< 4					

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-ND = NONE DETECTED E-AMENDED TEST RESULT
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TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ91246 01/30/95	WELL M33A SJ92854 03/06/95	WELL M33A SJ98020 06/28/95	WELL M33A SJ98021 06/28/95	WELL M33A SJ01601 09/19/95	WELL M33A SJ01602 09/19/95	WELL M33A SJ05107 12/11/95
ACID-BASE NEUTRAL EXTRACTABLE								
M-NITROANILINE	UG/L		< 4					
P-NITROANILINE	UG/L		< 4					
N-NITROSODI-N-BUTYLAMINE	UG/L		< 5					
N-NITROSODIETHYLAMINE	UG/L		< 5					
N-NITROSOMETHYLETHYLAMINE	UG/L		< 6					
N-NITROSOPIPERIDINE	UG/L		< 5					
N-NITROSOPYRROLIDINE	UG/L		< 5					
5-NITRO-O-TOLUIDINE	UG/L		< 5					
PENTACHLOROBENZENE	UG/L		< 4					
PENTACHLORONITROBENZENE	UG/L		< 4					
PHENACETIN	UG/L		< 4					
P-PHENYLENEDIAMINE	UG/L		< 20					
PRONAMIDE	UG/L		< 5					
SAFROLE	UG/L		< 5					
1,2,4,5-TETRACHLOROBENZEN	UG/L		< 5					
2,3,4,6-TETRACHLOROPHENOL	UG/L		< 5					
O-TOLUIDINE	UG/L		< 5					
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		< 5					
SYM-TRINITROBENZENE	UG/L		< 48					
ACENAPHTHENE	UG/L		< 2					
ACENAPHTHYLENE	UG/L		< 2					
ANTHRACENE	UG/L		< 2					
BENZIDINE	UG/L		< 62					
BENZO(A)ANTHRACENE	UG/L		< 2					
BENZO(A)PYRENE	UG/L		< 0.3					
BENZO(B)FLUORANTHENE	UG/L		< 2					
BENZO(G,H,I,)PERYLENE	UG/L		< 1					
BENZO(K)FLUORANTHENE	UG/L		< 2					
BIS(2-CL-ETHOXY)METHANE	UG/L		< 2					
BIS(2-CHLOROETHYL)ETHER	UG/L		< 1					
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 7					
DIETHYLHEXYL PHTHALATE	UG/L		< 1					
4-BROMOPHENYL PHENYLETHER	UG/L		< 2					
BUTYLBENZYL PHTHALATE	UG/L		< 2					
2-CHLORONAPHTHALENE	UG/L		< 3					
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2					
CHRYSENE	UG/L		< 1					
DIBENZO(A,H)ANTHRACENE	UG/L		< 1					
3,3'-DICHLOROBENZIDINE	UG/L		< 14					
DIETHYL PHTHALATE	UG/L		< 2					
DIMETHYL PHTHALATE	UG/L		< 2					

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUP & SPIKE G-AVERAGE H-SAMPLE LOST

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ91246 01/30/95		WELL M33A SJ92854 03/06/95		WELL M33A SJ98020 06/28/95		WELL M33A SJ98021 06/28/95		WELL M33A SJ01601 09/19/95		WELL M33A SJ01602 09/19/95		WELL M33A SJ05107 12/11/95	
ACID-BASE NEUTRAL EXTRACTABLE															
DI-N-BUTYL PHTHALATE	UG/L			< 2	E										
2,4-DINITROTOLUENE	UG/L			< 2											
2,6-DINITROTOLUENE	UG/L			< 2											
DI-N-OCTYL PHTHALATE	UG/L			< 2											
FLUORANTHENE	UG/L			< 2											
FLUORENE	UG/L			< 2											
HEXACHLOROBENZENE	UG/L			< 1											
HEXACHLOROBUTADIENE	UG/L			< 4											
HEXACHLOROCYCLOPENTADIENE	UG/L			< 30											
HEXACHLOROETHANE	UG/L			< 4											
INDENO(1,2,3-C,D)PYRENE	UG/L			< 2											
ISOPHORONE	UG/L			< 1											
NAPHTHALENE	UG/L			< 3											
NITROBENZENE	UG/L			< 2											
N-NITROSODIMETHYLAMINE	UG/L			< 1											
N-NITROSODI-N-PROPYLAMINE	UG/L			< 3											
PHENANTHRENE	UG/L			< 2											
PYRENE	UG/L			< 1											
2-CHLOROPHENOL	UG/L			< 2	E										
1,2,4-TRICHLOROBENZENE	UG/L			< 4											
2,4-DICHLOROPHENOL	UG/L			< 2											
2,4-DIMETHYLPHENOL	UG/L			< 2											
2,4-DINITROPHENOL	UG/L			< 19											
2-METHYL-4,6DINITROPHENOL	UG/L			< 2											
2-NITROPHENOL	UG/L			< 3											
4-NITROPHENOL	UG/L			< 18											
4-CHLORO-3-METHYLPHENOL	UG/L			< 2											
PENTACHLOROPHENOL	UG/L			< 0.1											
PHENOL	UG/L			< 2											
2,4,6-TRICHLOROPHENOL	UG/L			< 2											
N-NITROSODIPHENYLAMINE	UG/L			< 2											
O-CRESOL	UG/L			< 4											
M+P CRESOL	UG/L			< 3											

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUP & SPIKE G-AVERAGE H-SAMPLE LOST

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M33A SJ92851 03/06/95	WEFI M33A SJ98017 06/28/95	WEFI M33A SJ98018 06/28/95	WEFI M33A SJ01598 09/19/95	WEFI M33A SJ01599 09/19/95	WEFI M33A SJ05104 12/11/95
CATIONS							
IRON	MG/L FE	< 0.02					
MANGANESE	MG/L MN	0.36					
METALS							
ARSENIC	MG/L AS	0.001					
BARIUM	MG/L BA	0.04					
CADMIUM	MG/L CD	<0.003					
TOTAL CHROMIUM	MG/L CR	< 0.01					
COBALT	MG/L CO	< 0.01					
COPPER	MG/L CU	< 0.01					
LEAD	MG/L PB	< 0.02					
MERCURY	MG/L HG	<.0001					
NICKEL	MG/L NI	< 0.02					
SELENIUM	MG/L SE	0.001					
SILVER	MG/L AG	< 0.01					
ZINC	MG/L ZN	< 0.01					
ANTIMONY	MG/L SB	<0.001					
BERYLLIUM	MG/L BE	<.0005					
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ93485 03/17/95	WELL R34B SJ97718 06/21/95	WELL R34B SJ97719 06/21/95	WELL R34B SJ01364 09/13/95	WELL R34B SJ01365 09/13/95	WELL R34B SJ05129 12/11/95
FIELD PARAMETERS							
DEPTH TO WATER	FT	45.26	47.01		48.75		48.71
DEPTH TO BOTTOM	FT				129.7		130.3
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1		< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	17	17		18		18
FIELD WATER TEMPERATURE	DEG C	20.81	21.26		33.19		21.61
FIELD PH	PH	7.08	7.17		7.19		7.28
FIELD CONDUCTIVITY	UMHOS/CM	3753	3604		3505		3695
FIELD DISSOLVED O2	MG/L	0.19	0.14		1.35		0.32
DISSOLVED CO2	MG/L	26	21		20		17
GENERAL							
PH	PH	7.73	7.63	7.62	7.63	8.06	7.64
CONDUCTIVITY	UMHOS/CM	3580	3510 B	3510	3540	3530	3600
TOTAL DISSOLVED SOLIDS	MG/L	2944	2881	2881	3022	3012 B	3010
TOTAL HARDNESS	MG/L CACO3	1420	1508 G	1516 G	1574 G	1571 G	1682 G
TOTAL CYANIDE	MG/L CN	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
BORON	MG/L B	0.31	0.66	0.65	0.48	0.52	0.27
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.02 A	0.04	< 0.02 A	< 0.02 A	< 0.02 A	< 0.02 A
SULFATE	MG/L SO4	1580 A	1550 A	1540 A	1570 A	1550 A	1580 A
CHLORIDE	MG/L CL	285 A	280 A	283 A	290 A	290 A	279 A
TOTAL ALKALINITY	MG/L CACO3	180	181	181 B	180	180	181
BICARBONATE ALKALINITY	MG/L CACO3	180	181	181	180	180	181
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.29	0.18	0.18	0.26	0.26	0.25
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	577	572 C	582	582	579 C	622
MAGNESIUM-HARDNESS	MG/L CACO3	943	934 C	934	992	992 C	1060
SODIUM	MG/L NA	337	336 C	334	340	341 C	347
POTASSIUM	MG/L K	7.0	7.0 C	6.9	6.4	6.4 C	6.6
IRON	MG/L FE	0.18	0.18 A	0.17 A	0.39	0.38 C	0.41
MANGANESE	MG/L MN	0.13	0.13 C	0.13	0.10	0.098 C	0.08
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	2.2	2.1	2.0	2.3	2.2	2.0

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-CALCULATED VALUE H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ93485 03/17/95	WELL R34B SJ97718 06/21/95	WELL R34B SJ97719 06/21/95	WELL R34B SJ01364 09/13/95	WELL R34B SJ01365 09/13/95	WELL R34B SJ05129 12/11/95
ORGANIC MATTER							
TOTAL BOD	MG/L O	4	1	3	1	1	2 B
SOLUBLE BOD	MG/L O	< 0.7	1	< 0.7	< 0.7	< 0.7 B	< 0.7
TOTAL COD	MG/L O	9	6	9	8	6	10
SOLUBLE COD	MG/L O	9 B	6	9	8	6	10
TOTAL ORGANIC CARBON	MG/L C	1.2	1.2	1.2	1.4 C	3.4	1.1
OIL & GREASE	MG/L EXTRAC	< 0.9 C	1.5	1.4	< 0.9	< 0.9	< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L	31 D	26 H	13 D	39 H	49 D	11 C
METALS							
ARSENIC	MG/L AS	0.001	.0023	.0026	.0012	<.0010	<.0010
BARIUM	MG/L BA	0.02	0.02 C	0.02	0.02	0.02 C	0.01
CADMIUM	MG/L CD	<0.003	<0.003 C	<0.003	<0.003	<0.003 C	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02 C	< 0.02	< 0.02	< 0.02 C	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001 C	.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02 C	< 0.02	< 0.02	< 0.02 C	< 0.02
SELENIUM	MG/L SE	<0.001	<.0010	<.0010	<.0010	<.0010	<.0010
SILVER	MG/L AG	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C	< 0.01
ZINC	MG/L ZN	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C	0.02
ANTIMONY	MG/L SB	<0.001	<.0010	<.0010	<.0005	<.0005	.0005
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005 C	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 C	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06 C	< 0.06	< 0.06	< 0.06 C	< 0.06
VANADIUM	MG/L V	< 0.02	< 0.05 C	< 0.05	< 0.05	< 0.05 C	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L	< 0.05					
DINOSEB	UG/L	< 0.1					
THIONAZIN	UG/L	< 1					
DIMETHOATE	UG/L	< 1					
DISULFOTON	UG/L	< 1					
METHYL PARATHION	UG/L	< 1					
ETHYL PARATHION	UG/L	< 1					
PHORATE	UG/L	< 1					
PP'-DDE	UG/L	< 0.01					
PP'-DDD	UG/L	< 0.01					
PP'-DDT	UG/L	< 0.01					

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-ND = NONE DETECTED
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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ93485 03/17/95	WELL R34B SJ97718 06/21/95	WELL R34B SJ97719 06/21/95	WELL R34B SJ01364 09/13/95	WELL R34B SJ01365 09/13/95	WELL R34B SJ05129 12/11/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	< 0.01					
LINDANE (GAMMA-BHC)	UG/L	< 0.01					
HEPTACHLOR	UG/L	< 0.01					
HEPTACHLOR EPOXIDE	UG/L	< 0.01					
ALDRIN	UG/L	< 0.01					
DIELDRIN	UG/L	< 0.01					
ENDRIN	UG/L	< 0.01					
TOXAPHENE	UG/L	< 0.5					
METHOXYCLOR	UG/L	< 0.01					
2,4-D(ACID)	UG/L	< 0.5					
2,4,5-TP(SILVEX)	UG/L	< 0.05					
AROCLOR 1242	UG/L	< 0.1					
AROCLOR 1254	UG/L	< 0.05					
BETA-BHC	UG/L	< 0.01					
DELTA-BHC	UG/L	< 0.01					
ENDOSULFAN I	UG/L	< 0.01					
ENDOSULFAN II	UG/L	< 0.01					
ENDOSULFAN SULFATE	UG/L	< 0.1					
ENDRIN ALDEHYDE	UG/L	< 0.01					
AROCLOR 1016	UG/L	< 0.1					
AROCLOR 1221	UG/L	< 0.1					
AROCLOR 1232	UG/L	< 0.1					
AROCLOR 1248	UG/L	< 0.1					
AROCLOR 1260	UG/L	< 0.1					
TECHNICAL CHLORDANE	UG/L	< 0.05 E					
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	< 100					
BROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 1000					
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.5					
2,2-DICHLOROPROPANE	UG/L	< 0.5					
1,1-DICHLOROPROPENE	UG/L	< 0.5					
ISOBUTYL ALCOHOL	UG/L	< 100					
METHACRYLONITRILE	UG/L	< 10					
METHYL IODIDE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 20					

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-CALCULATED VALUE H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ93485 03/17/95	WELL R34B SJ97718 06/21/95	WELL R34B SJ97719 06/21/95	WELL R34B SJ01364 09/13/95	WELL R34B SJ01365 09/13/95	WELL R34B SJ05129 12/11/95
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10					
ETHYL METHACRYLATE	UG/L	< 10					
METHYLENE CHLORIDE	UG/L	< 3	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 0.5					
P-DICHLOROBENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1					
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200					
ACRYLONITRILE	UG/L	< 50	< 10	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L	< 100					
FREON 12 (CCL2F2)	UG/L	< 0.5					
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-CALCULATED VALUE H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL R34B SJ93485 03/17/95		WELL R34B SJ97718 06/21/95		WELL R34B SJ97719 06/21/95		WELL R34B SJ01364 09/13/95		WELL R34B SJ01365 09/13/95		WELL R34B SJ05129 12/11/95	
VOLATILE ORGANIC COMPOUNDS														
1,2-DIBROMOETHANE	UG/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
ACETONE	UG/L		< 10		< 10		< 10		< 10		< 10		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5		< 1		< 1		< 1		< 1		< 1	
2-BUTANONE	UG/L		< 10		< 10		< 10		< 10		< 10		< 10	
4-METHYL-2-PENTANONE	UG/L		< 10		< 10		< 10		< 10		< 10		< 10	
STYRENE	UG/L		< 0.5		< 1		< 1		< 1		< 1		< 1	
2,4,5-TRICHLOROPHENOL	UG/L		< 2											
M+P-XYLENE	UG/L		< 0.5		< 1		< 1		< 1		< 1		< 1	
CARBON DISULFIDE	UG/L	CS2	< 0.5		< 1		< 1		< 1		< 1		< 1	
2-HEXANONE	UG/L	C6H12O	< 10		< 5		< 5		< 5		< 5		< 5	
ACID-BASE NEUTRAL EXTRACTABLE														
ACETOPHENONE	UG/L		< 4											
2-ACETYLAMINOFLUORENE	UG/L		< 3											
4-AMINOBIPHENYL	UG/L		< 5											
BENZYL ALCOHOL	UG/L		< 5											
P-CHLOROANILINE	UG/L		< 6											
CHLOROBENZILATE	UG/L		< 3											
DIALLATE	UG/L		< 4											
DIBENZOFURAN	UG/L		< 4											
2,6-DICHLOROPHENOL	UG/L		< 4	F										
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4											
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15											
3,3'-DIMETHYLBENZIDINE	UG/L		< 4											
M-DINITROBENZENE	UG/L		< 4											
DIPHENYLAMINE	UG/L		< 10											
ETHYL METHANESULFONATE	UG/L		< 4											
FAMPHUR	UG/L		< 50											
HEXACHLOROPROPENE	UG/L		< 20											
ISODRIN	UG/L		< 5											
ISOSAFROLE	UG/L		< 5											
KEPONE	UG/L		< 50											
METHAPYRILENE	UG/L		< 5											
3-METHYLCHOLANTHRENE	UG/L		< 13	F										
METHYL METHANESULFONATE	UG/L		< 11											
2-METHYLNAPHTHALENE	UG/L		< 5											
1,4-NAPHTHOQUINONE	UG/L		< 8											
1-NAPHTHYLAMINE	UG/L		< 4											
2-NAPHTHYLAMINE	UG/L		< 4											
O-NITROANILINE	UG/L		< 4											

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-CALCULATED VALUE H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ93485 03/17/95	WELL R34B SJ97718 06/21/95	WELL R34B SJ97719 06/21/95	WELL R34B SJ01364 09/13/95	WELL R34B SJ01365 09/13/95	WELL R34B SJ05129 12/11/95
ACID-BASE NEUTRAL EXTRACTABLE							
M-NITROANILINE	UG/L	< 4					
P-NITROANILINE	UG/L	< 4					
N-NITROSODI-N-BUTYLAMINE	UG/L	< 5					
N-NITROSODIETHYLAMINE	UG/L	< 5					
N-NITROSOMETHYLETHYLAMINE	UG/L	< 6					
N-NITROSOPIPERIDINE	UG/L	< 5					
N-NITROSOPYRROLIDINE	UG/L	< 5					
5-NITRO-O-TOLUIDINE	UG/L	< 5					
PENTACHLOROBENZENE	UG/L	< 4					
PENTACHLORONITROBENZENE	UG/L	< 4					
PHENACETIN	UG/L	< 4					
P-PHENYLENEDIAMINE	UG/L	< 20					
PRONAMIDE	UG/L	< 5					
SAFROLE	UG/L	< 5					
1,2,4,5-TETRACHLOROBENZEN	UG/L	< 5					
2,3,4,6-TETRACHLOROPHENOL	UG/L	< 5					
O-TOLUIDINE	UG/L	< 5					
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	< 5					
SYM-TRINITROBENZENE	UG/L	< 48					
ACENAPHTHENE	UG/L	< 2					
ACENAPHTHYLENE	UG/L	< 2					
ANTHRACENE	UG/L	< 2					
BENZIDINE	UG/L	< 62					
BENZO(A)ANTHRACENE	UG/L	< 2					
BENZO(A)PYRENE	UG/L	< 0.3					
BENZO(B)FLUORANTHENE	UG/L	< 2					
BENZO(G.H.I.)PERYLENE	UG/L	< 1					
BENZO(K)FLUORANTHENE	UG/L	< 2					
BIS(2-CL-ETHOXY)METHANE	UG/L	< 2					
BIS(2-CHLOROETHYL)ETHER	UG/L	< 1					
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 7					
DIETHYLHEXYL PHTHALATE	UG/L	1					
4-BROMOPHENYL PHENYLETHER	UG/L	< 2					
BUTYLBENZYL PHTHALATE	UG/L	< 2					
2-CHLORONAPHTHALENE	UG/L	< 3					
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2					
CHRYSENE	UG/L	< 1					
DIBENZO(A,H)ANTHRACENE	UG/L	< 1					
3,3'-DICHLOROBENZIDINE	UG/L	< 14					
DIETHYL PHTHALATE	UG/L	< 2					
DIMETHYL PHTHALATE	UG/L	< 2					

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-CALCULATED VALUE H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ93485 03/17/95	WELL R34B SJ97718 06/21/95	WELL R34B SJ97719 06/21/95	WELL R34B SJ01364 09/13/95	WELL R34B SJ01365 09/13/95	WELL R34B SJ05129 12/11/95
ACID-BASE NEUTRAL EXTRACTABLE							
DI-N-BUTYL PHTHALATE	UG/L	< 2 F					
2,4-DINITROTOLUENE	UG/L	< 2					
2,6-DINITROTOLUENE	UG/L	< 2					
DI-N-OCTYL PHTHALATE	UG/L	< 2					
FLUORANTHENE	UG/L	< 2					
FLUORENE	UG/L	< 2					
HEXACHLOROBENZENE	UG/L	< 1					
HEXACHLOROBUTADIENE	UG/L	< 4					
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30					
HEXACHLOROETHANE	UG/L	< 4					
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2					
ISOPHORONE	UG/L	< 1					
NAPHTHALENE	UG/L	< 3					
NITROBENZENE	UG/L	< 2					
N-NITROSODIMETHYLAMINE	UG/L	< 1					
N-NITROSODI-N-PROPYLAMINE	UG/L	< 3					
PHENANTHRENE	UG/L	< 2					
PYRENE	UG/L	< 1					
2-CHLOROPHENOL	UG/L	< 2					
1,2,4-TRICHLOROBENZENE	UG/L	< 4					
2,4-DICHLOROPHENOL	UG/L	< 2					
2,4-DIMETHYLPHENOL	UG/L	< 2					
2,4-DINITROPHENOL	UG/L	< 19					
2-METHYL-4,6DINITROPHENOL	UG/L	< 2					
2-NITROPHENOL	UG/L	< 3					
4-NITROPHENOL	UG/L	< 18					
4-CHLORO-3-METHYLPHENOL	UG/L	< 2					
PENTACHLOROPHENOL	UG/L	< 0.1					
PHENOL	UG/L	< 2					
2,4,6-TRICHLOROPHENOL	UG/L	< 2					
N-NITROSODIPHENYLAMINE	UG/L	< 2					
O-CRESOL	UG/L	< 4					
M+P CRESOL	UG/L	< 3					

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-DUPLICATE SPIKE D-10% RULE EXCEEDED E-ND = NONE DETECTED
F-AMENDED TEST RESULT G-CALCULATED VALUE H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI R34B SJ93482 03/17/95	WEFI R34B SJ97715 06/21/95	WEFI R34B SJ97716 06/21/95	WEFI R34B SJ01362 09/13/95	WEFI R34B SJ01363 09/13/95	WEFI R34B SJ05127 12/11/95
CATIONS							
IRON	MG/L FE	0.15	0.27	0.18	0.30	0.25	0.39
MANGANESE	MG/L MN	0.13	0.12	0.13	0.097	0.10	0.08
METALS							
ARSENIC	MG/L AS	0.001	.0024	.0020	<.0010	<.0010	<.0010
BARIUM	MG/L BA	0.02	0.02	0.02	0.02	0.02	0.01
CADMIUM	MG/L CD	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001	<.0001 A	<.0001 A
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L SE	<0.001	<.0010	<.0010	<.0010	<.0010	<.0010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
ANTIMONY	MG/L SB	<0.001	<.0010	<.0010	<.0005	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0005 A	<.0005	<.0005	<.0005 A	<.0005	<.0005 A
THALLIUM	MG/L TL	<0.002 A	<0.002	<0.002	<0.002 A	<0.002	<0.002 A
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA

BARRIER 4 MONITORING WELLS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ98350 07/07/95		WELL M41A SJ98354 07/07/95		WELL M41A SJ01613 09/19/95		WELL M41A SJ05568 12/21/95	
FIELD PARAMETERS									
DEPTH TO WATER	FT	28.5				37.36		42.64	
DEPTH TO BOTTOM	FT					59.89		59.27	
PERCENT METHANE IN GAS	%CH4	< 0.1				< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	18				20		20	
FIELD WATER TEMPERATURE	DEG C	20.32				21.85		20.19	
FIELD PH	PH	7.17				7.23		7.55	
FIELD CONDUCTIVITY	UMHOS/CM	2263				2605		2881	
FIELD DISSOLVED O2	MG/L	2.54				1.38		2.14	
DISSOLVED CO2	MG/L	42				37		19	
GENERAL									
PH	PH	7.83		7.57		7.78		7.71	F
CONDUCTIVITY	UMHOS/CM	2480		2430		2550		2760	
TOTAL DISSOLVED SOLIDS	MG/L	1980		1996		1968		2102	
TOTAL HARDNESS	MG/L CACO3	1098	B	1087	B	1013	B	850	B
TOTAL CYANIDE	MG/L CN	<0.002		<0.002		<0.002		<0.002	
BORON	MG/L B	0.74		0.77		1.03		1.28	
ANIONS									
NITRATE NITROGEN	MG/L N	9.07	A	8.84	E	5.68	A	1.14	E
SULFATE	MG/L SO4	912	A	917	E	942	A	1000	E
CHLORIDE	MG/L CL	100	A	102	E	118	A	122	E
TOTAL ALKALINITY	MG/L CACO3	356		356	C	363		380	
BICARBONATE ALKALINITY	MG/L CACO3	356		356		363		380	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1	F	< 0.1	F	< 0.1	F
FLUORIDE	MG/L F	1.15		1.15		1.36		1.27	
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	534		527	A	474		397	
MAGNESIUM-HARDNESS	MG/L CACO3	564		560	A	539		453	
SODIUM	MG/L NA	200		199	A	272		355	
POTASSIUM	MG/L K	7.4		7.5	A	11.1		12.4	
IRON	MG/L FE	3.82		4.15	A	9.32		10.3	
MANGANESE	MG/L MN	0.18		0.19	A	0.36		0.30	
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1		< 0.1		< 0.1	

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-SAMPLE LOST E-AVERAGE
F-AVERAGE OF DUPS G-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ98350 07/07/95	WELL M41A SJ98354 07/07/95	WELL M41A SJ01613 09/19/95	WELL M41A SJ05568 12/21/95
ORGANIC MATTER					
TOTAL BOD	MG/L O	< 0.7	1	3	2
SOLUBLE BOD	MG/L O	< 0.7	< 0.7	< 0.7 C	< 0.7 C
TOTAL COD	MG/L O	10	10	17	16
SOLUBLE COD	MG/L O	6 C	10	8	10
TOTAL ORGANIC CARBON	MG/L C	D	2.2	1.9	12
OIL & GREASE	MG/L EXTRAC	2.6	< 0.9	2.5	< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L	9.2 A	11	8.7	9.0 A
METALS					
ARSENIC	MG/L AS	.0015	.0016	.0047	.0072
BARIUM	MG/L BA	0.04	0.04 A	0.07	0.07
CADMIUM	MG/L CD	<0.003	<0.003 A	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	0.01 A	0.01	0.01
COBALT	MG/L CO	< 0.01	< 0.01 A	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01 A	0.02	0.01
LEAD	MG/L PB	< 0.02	< 0.02 A	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001 A
NICKEL	MG/L NI	< 0.02	< 0.02 A	< 0.02	< 0.02
SELENIUM	MG/L SE	.0075	.0077	.0049	.0013
SILVER	MG/L AG	< 0.01	< 0.01 A	< 0.01	< 0.01
ZINC	MG/L ZN	0.03	0.03 A	0.05	0.04
ANTIMONY	MG/L SB	<.0005	.0006	.0007	.0010
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06 A	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05 A	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L				< 0.05 G
DINOSEB	UG/L				< 0.1 G
THIONAZIN	UG/L				< 1
DIMETHOATE	UG/L				< 1
DISULFOTON	UG/L				< 1
METHYL PARATHION	UG/L				< 1
ETHYL PARATHION	UG/L				< 1
PHORATE	UG/L				< 1
PP'-DDE	UG/L				< 0.01
PP'-DDD	UG/L				< 0.01
PP'-DDT	UG/L				< 0.01

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-SAMPLE LOST E-AVERAGE
F-AVERAGE OF DUPS G-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ98350 07/07/95	WELL M41A SJ98354 07/07/95	WELL M41A SJ01613 09/19/95	WELL M41A SJ05568 12/21/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L				< 0.01
LINDANE (GAMMA-BHC)	UG/L				< 0.01
HEPTACHLOR	UG/L				< 0.01
HEPTACHLOR EPOXIDE	UG/L				< 0.01
ALDRIN	UG/L				< 0.01
DIELDRIN	UG/L				< 0.01
ENDRIN	UG/L				< 0.01
TOXAPHENE	UG/L				< 0.5
METHOXYCLOR	UG/L				< 0.01
2,4-D(ACID)	UG/L				< 0.5 G
2,4,5-TP(SILVEX)	UG/L				< 0.05 G
AROCLOR 1242	UG/L				< 0.1
AROCLOR 1254	UG/L				< 0.05
BETA-BHC	UG/L				< 0.01
DELTA-BHC	UG/L				< 0.01
ENDOSULFAN I	UG/L				< 0.01
ENDOSULFAN II	UG/L				< 0.01
ENDOSULFAN SULFATE	UG/L				< 0.1
ENDRIN ALDEHYDE	UG/L				< 0.01
AROCLOR 1016	UG/L				< 0.1
AROCLOR 1221	UG/L				< 0.1
AROCLOR 1232	UG/L				< 0.1
AROCLOR 1248	UG/L				< 0.1
AROCLOR 1260	UG/L				< 0.1
TECHNICAL CHLORDANE	UG/L				< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L				< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L				< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L				< 0.3
2,2-DICHLOROPROPANE	UG/L				< 1
1,1-DICHLOROPROPENE	UG/L				< 1
ISOBUTYL ALCOHOL	UG/L				< 10
METHACRYLONITRILE	UG/L				< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L				< 10

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-SAMPLE LOST E-AVERAGE
F-AVERAGE OF DUPS G-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ98350 07/07/95	WELL M41A SJ98354 07/07/95	WELL M41A SJ01613 09/19/95	WELL M41A SJ05568 12/21/95
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L				< 10
ETHYL METHACRYLATE	UG/L				< 5
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L				< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L				< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L				< 10
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L				< 20
FREON 12 (CCL2F2)	UG/L				< 1
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-SAMPLE LOST E-AVERAGE
F-AVERAGE OF DUPS G-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M41A SJ98350 07/07/95	WELL M41A SJ98354 07/07/95	WELL M41A SJ01613 09/19/95	WELL M41A SJ05568 12/21/95
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L					< 2
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L					< 4
2-ACETYLAMINOFLUORENE	UG/L					< 3
4-AMINOBIPHENYL	UG/L					< 5
BENZYL ALCOHOL	UG/L					< 5
P-CHLOROANILINE	UG/L					< 6
CHLOROBENZILATE	UG/L					< 3
DIALLATE	UG/L					< 4
DIBENZOFURAN	UG/L					< 4
2,6-DICHLOROPHENOL	UG/L					< 3
P(DIMETHYLAMINO)AZOBENZEN	UG/L					< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L					< 15
3,3'-DIMETHYLBENZIDINE	UG/L					< 4
M-DINITROBENZENE	UG/L					< 4
DIPHENYLAMINE	UG/L					< 10
ETHYL METHANESULFONATE	UG/L					< 4
FAMPHUR	UG/L					< 50
HEXACHLOROPROPENE	UG/L					< 20
ISODRIN	UG/L					< 5
ISOSAFROLE	UG/L					< 5
KEPONE	UG/L					< 50
METHAPYRILENE	UG/L					< 5
3-METHYLCHOLANTHRENE	UG/L					< 13
METHYL METHANESULFONATE	UG/L					< 11
2-METHYLNAPHTHALENE	UG/L					< 5
1,4-NAPHTHOQUINONE	UG/L					< 8
1-NAPHTHYLAMINE	UG/L					< 4
2-NAPHTHYLAMINE	UG/L					< 4
O-NITROANILINE	UG/L					< 4

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-SAMPLE LOST E-AVERAGE
F-AVERAGE OF DUPS G-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ98350 07/07/95	WELL M41A SJ98354 07/07/95	WELL M41A SJ01613 09/19/95	WELL M41A SJ05568 12/21/95					
ACID-BASE NEUTRAL EXTRACTABLE										
M-NITROANILINE	UG/L				< 4					
P-NITROANILINE	UG/L				< 4					
N-NITROSODI-N-BUTYLAMINE	UG/L				< 5					
N-NITROSODIETHYLAMINE	UG/L				< 5					
N-NITROSOMETHYLETHYLAMINE	UG/L				< 6					
N-NITROSOPIPERIDINE	UG/L				< 5					
N-NITROSOPYRROLIDINE	UG/L				< 5					
5-NITRO-O-TOLUIDINE	UG/L				< 5					
PENTACHLOROBENZENE	UG/L				< 4					
PENTACHLORONITROBENZENE	UG/L				< 4					
PHENACETIN	UG/L				< 4					
P-PHENYLENEDIAMINE	UG/L				< 20					
PRONAMIDE	UG/L				< 5					
SAFROLE	UG/L				< 5					
1,2,4,5-TETRACHLOROBENZEN	UG/L				< 5					
2,3,4,6-TETRACHLOROPHENOL	UG/L				< 5					
O-TOLUIDINE	UG/L				< 5					
O,O,O-TRIETHYLPHOSPHOROTH	UG/L				< 5					
SYM-TRINITROBENZENE	UG/L				< 48					
ACENAPHTHENE	UG/L				< 2					
ACENAPHTHYLENE	UG/L				< 2					
ANTHRACENE	UG/L				< 2					
BENZIDINE	UG/L				< 62					
BENZO(A)ANTHRACENE	UG/L				< 2					
BENZO(A)PYRENE	UG/L				< 0.3					
BENZO(B)FLUORANTHENE	UG/L				< 2					
BENZO(G,H,I,)PERYLENE	UG/L				< 1					
BENZO(K)FLUORANTHENE	UG/L				< 2					
BIS(2-CL-ETHOXY)METHANE	UG/L				< 2					
BIS(2-CHLOROETHYL)ETHER	UG/L				< 1					
BIS(2-CL-ISOPROPYL)ETHER	UG/L				< 7					
DIETHYLHEXYL PHTHALATE	UG/L				56					
4-BROMOPHENYL PHENYLETHER	UG/L				< 2					
BUTYLBENZYL PHTHALATE	UG/L				< 2					
2-CHLORONAPHTHALENE	UG/L				< 3					
4-CHLOROPHENYLPHENYLETHER	UG/L				< 2					
CHRYSENE	UG/L				< 1					
DIBENZO(A,H)ANTHRACENE	UG/L				< 1					
3,3'-DICHLOROBENZIDINE	UG/L				< 14					
DIETHYL PHTHALATE	UG/L				< 2					
DIMETHYL PHTHALATE	UG/L				< 2					

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-SAMPLE LOST E-AVERAGE
F-AVERAGE OF DUPS G-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ98350 07/07/95	WELL M41A SJ98354 07/07/95	WELL M41A SJ01613 09/19/95	WELL M41A SJ05568 12/21/95						
ACID-BASE NEUTRAL EXTRACTABLE											
DI-N-BUTYL PHTHALATE	UG/L				< 1						
2,4-DINITROTOLUENE	UG/L				< 2						
2,6-DINITROTOLUENE	UG/L				< 2						
DI-N-OCTYL PHTHALATE	UG/L				< 2						
FLUORANTHENE	UG/L				< 2						
FLUORENE	UG/L				< 2						
HEXACHLOROBENZENE	UG/L				< 1						
HEXACHLOROBUTADIENE	UG/L				< 4						
HEXACHLOROCYCLOPENTADIENE	UG/L				< 30						
HEXACHLOROETHANE	UG/L				< 4						
INDENO(1,2,3-C,D)PYRENE	UG/L				< 2						
ISOPHORONE	UG/L				< 1						
NAPHTHALENE	UG/L				< 3						
NITROBENZENE	UG/L				< 2						
N-NITROSODIMETHYLAMINE	UG/L				< 1						
N-NITROSODI-N-PROPYLAMINE	UG/L				< 3						
PHENANTHRENE	UG/L				< 2						
PYRENE	UG/L				< 1						
2-CHLOROPHENOL	UG/L				< 2						
1,2,4-TRICHLOROBENZENE	UG/L				< 4						
2,4-DICHLOROPHENOL	UG/L				< 2						
2,4-DIMETHYLPHENOL	UG/L				< 2						
2,4-DINITROPHENOL	UG/L				< 19						
2-METHYL-4,6DINITROPHENOL	UG/L				< 2						
2-NITROPHENOL	UG/L				< 3						
4-NITROPHENOL	UG/L				< 18						
4-CHLORO-3-METHYLPHENOL	UG/L				< 2						
PENTACHLOROPHENOL	UG/L				< 0.1						
PHENOL	UG/L				< 2						
2,4,6-TRICHLOROPHENOL	UG/L				< 2						
N-NITROSODIPHENYLAMINE	UG/L				< 2						
O-CRESOL	UG/L				< 4						
M+P CRESOL	UG/L				< 3						

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-DUP & SPIKE D-SAMPLE LOST E-AVERAGE
F-AVERAGE OF DUPS G-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M41A SJ98347 07/07/95	WEFI M41A SJ98355 07/07/95	WEFI M41A SJ01612 09/19/95	WEFI M41A SJ05567 12/21/95
CATIONS					
IRON	MG/L FE	< 0.02	< 0.02	< 0.02	< 0.02
MANGANESE	MG/L MN	0.14	0.14	0.27	0.20
METALS					
ARSENIC	MG/L AS	<.0010	<.0010	.0032	.0037
BARIUM	MG/L BA	0.02	0.02	0.02	0.02
CADMIUM	MG/L CD	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001 A	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L SE	.0078	.0075	.0045	<.0010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	0.02	0.02	0.02	0.01
ANTIMONY	MG/L SB	<.0005	<.0005	.0006	.0008
BERYLLIUM	MG/L BE	<.0005	<.0005 A	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002 A	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE ...4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ98351 07/07/95	WELL M42A SJ05176 12/12/95
FIELD PARAMETERS			
DEPTH TO WATER	FT	29.1	40.18
DEPTH TO BOTTOM	FT		58.12
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	19
FIELD WATER TEMPERATURE	DEG C	24.96	20.06
FIELD PH	PH	7.48	7.9
FIELD CONDUCTIVITY	UMHOS/CM	2423	3640
FIELD DISSOLVED O2	MG/L	0.56	0.29
DISSOLVED CO2	MG/L	19	9
GENERAL			
PH	PH	8.12	8.30
CONDUCTIVITY	UMHOS/CM	2630	3460
TOTAL DISSOLVED SOLIDS	MG/L	2006	2512
TOTAL HARDNESS	MG/L CACO3	883 B	480 B
TOTAL CYANIDE	MG/L CN	<0.002	<0.002
BORON	MG/L B	0.73	1.30
ANIONS			
NITRATE NITROGEN	MG/L N	9.96 A	1.28 A
SULFATE	MG/L SO4	928 A	1250 A
CHLORIDE	MG/L CL	131 A	150 A
TOTAL ALKALINITY	MG/L CACO3	328	389
BICARBONATE ALKALINITY	MG/L CACO3	328	389
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1
FLUORIDE	MG/L F	1.13	0.93
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	447	247
MAGNESIUM-HARDNESS	MG/L CACO3	436	233
SODIUM	MG/L NA	319	657
POTASSIUM	MG/L K	10.3	11.8
IRON	MG/L FE	4.72	1.52
MANGANESE	MG/L MN	0.19	0.08
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	< 0.1	0.2

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ98351 07/07/95		WELL M42A SJ05176 12/12/95	
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1.0
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1.0
METHYL METHACRYLATE	UG/L			<	10
ETHYL METHACRYLATE	UG/L			<	5.0
METHYLENE CHLORIDE	UG/L	<	1	<	1.0
CHLOROFORM	UG/L	<	1	<	1.0
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1.0
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	1.0
TRICHLOROETHYLENE	UG/L	<	1	<	1.0
TETRACHLOROETHYLENE	UG/L	<	1	<	1.0
BROMODICHLOROMETHANE	UG/L	<	1	<	1.0
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1.0
BROMOFORM	UG/L	<	1	<	1.0
CHLOROBENZENE	UG/L	<	1	<	1.0
VINYL CHLORIDE	UG/L	<	0.3	<	0.3
O-DICHLOROBENZENE	UG/L	<	1	<	1.0
M-DICHLOROBENZENE	UG/L			<	1.0
P-DICHLOROBENZENE	UG/L	<	1	<	1.0
1,1-DICHLOROETHANE	UG/L	<	1	<	1.0
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1.0
1,2-DICHLOROETHANE	UG/L	<	0.3	<	0.3
BENZENE	UG/L	<	0.5	<	0.5
TOLUENE	UG/L	<	1	<	1.0
ETHYL BENZENE	UG/L	<	1	<	1.0
VINYL ACETATE	UG/L	<	10	<	10
O-XYLENE	UG/L	<	1	<	1.0
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	1	<	1.0
BROMOMETHANE	UG/L	<	1	<	1.0
CHLOROETHANE	UG/L	<	1	<	1.0
2-CHLOROETHYLVINYLETHER	UG/L			<	1.0
CHLOROMETHANE	UG/L	<	1	<	1.0
1,2-DICHLOROPROPANE	UG/L	<	1	<	1.0
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1.0
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5
ACROLEIN	UG/L			<	10
ACRYLONITRILE	UG/L	<	10	<	10
ACETONITRILE	UG/L			<	20
FREON 12 (CCL2F2)	UG/L			<	1.0
FREON 11 (CCL3F)	UG/L	<	1	<	1.0

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M42A SJ98351 07/07/95	WELL M42A SJ05176 12/12/95
VOLATILE ORGANIC COMPOUNDS				
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1.0
2-BUTANONE	UG/L		< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10
STYRENE	UG/L		< 1	< 1.0
2,4,5-TRICHLOROPHENOL	UG/L			< 2
M+P-XYLENE	UG/L		< 1	< 1.0
CARBON DISULFIDE	UG/L	CS2	< 1	< 1.0
2-HEXANONE	UG/L	C6H12O	< 5	< 5.0
ACID-BASE NEUTRAL EXTRACTABLE				
ACETOPHENONE	UG/L			< 4
2-ACETYLAMINOFLUORENE	UG/L			< 3
4-AMINOBIPHENYL	UG/L			< 5
BENZYL ALCOHOL	UG/L			< 5
P-CHLOROANILINE	UG/L			< 6
CHLOROBENZILATE	UG/L			< 3
DIALLATE	UG/L			< 4
DIBENZOFURAN	UG/L			< 4
2,6-DICHLOROPHENOL	UG/L			< 4
P(DIMETHYLAMINO)AZOBENZEN	UG/L			< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			< 15
3,3'-DIMETHYLBENZIDINE	UG/L			< 4
M-DINITROBENZENE	UG/L			< 4
DIPHENYLAMINE	UG/L			< 10
ETHYL METHANESULFONATE	UG/L			< 4
FAMPHUR	UG/L			< 50
HEXACHLOROPROPENE	UG/L			< 20
ISODRIN	UG/L			< 5
ISOSAFROLE	UG/L			< 5
KEPONE	UG/L			< 50
METHAPYRILENE	UG/L			< 5
3-METHYLCHOLANTHRENE	UG/L			< 13
METHYL METHANESULFONATE	UG/L			< 11
2-METHYLNAPHTHALENE	UG/L			< 5
1,4-NAPHTHOQUINONE	UG/L			< 8
1-NAPHTHYLAMINE	UG/L			< 4
2-NAPHTHYLAMINE	UG/L			< 4
O-NITROANILINE	UG/L			< 4

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ98351 07/07/95		WELL M42A SJ05176 12/12/95	
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L		<	4	
P-NITROANILINE	UG/L		<	4	
N-NITROSODI-N-BUTYLAMINE	UG/L		<	5	
N-NITROSODIETHYLAMINE	UG/L		<	5	
N-NITROSOMETHYLETHYLAMINE	UG/L		<	6	
N-NITROSOPIPERIDINE	UG/L		<	5	
N-NITROSOPYRROLIDINE	UG/L		<	5	
5-NITRO-O-TOLUIDINE	UG/L		<	5	
PENTACHLOROBENZENE	UG/L		<	4	
PENTACHLORONITROBENZENE	UG/L		<	4	
PHENACETIN	UG/L		<	4	
P-PHENYLENEDIAMINE	UG/L		<	20	
PRONAMIDE	UG/L		<	5	
SAFROLE	UG/L		<	5	
1,2,4,5-TETRACHLOROBENZEN	UG/L		<	5	
2,3,4,6-TETRACHLOROPHENOL	UG/L		<	5	
O-TOLUIDINE	UG/L		<	5	
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		<	5	
SYM-TRINITROBENZENE	UG/L		<	48	
ACENAPHTHENE	UG/L		<	2	
ACENAPHTHYLENE	UG/L		<	2	
ANTHRACENE	UG/L		<	2	
BENZIDINE	UG/L		<	62	
BENZO(A)ANTHRACENE	UG/L		<	2	
BENZO(A)PYRENE	UG/L		<	0.3	
BENZO(B)FLUORANTHENE	UG/L		<	2	
BENZO(G.H.I.)PERYLENE	UG/L		<	1	
BENZO(K)FLUORANTHENE	UG/L		<	2	
BIS(2-CL-ETHOXY)METHANE	UG/L		<	2	
BIS(2-CHLOROETHYL)ETHER	UG/L		<	1	
BIS(2-CL-ISOPROPYL)ETHER	UG/L		<	7	
DIETHYLHEXYL PHTHALATE	UG/L			2	
4-BROMOPHENYL PHENYLETHER	UG/L		<	2	
BUTYLBENZYL PHTHALATE	UG/L		<	2	
2-CHLORONAPHTHALENE	UG/L		<	3	
4-CHLOROPHENYLPHENYLETHER	UG/L		<	2	
CHRYSENE	UG/L		<	1	
DIBENZO(A,H)ANTHRACENE	UG/L		<	1	
3,3'-DICHLOROBENZIDINE	UG/L		<	14	
DIETHYL PHTHALATE	UG/L		<	2	
DIMETHYL PHTHALATE	UG/L		<	2	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ98351 07/07/95		WELL M42A SJ05176 12/12/95	
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L		<	1	
2,4-DINITROTOLUENE	UG/L		<	2	
2,6-DINITROTOLUENE	UG/L		<	2	
DI-N-OCTYL PHTHALATE	UG/L		<	2	
FLUORANTHENE	UG/L		<	2	
FLUORENE	UG/L		<	2	
HEXACHLOROBENZENE	UG/L		<	1	
HEXACHLOROBUTADIENE	UG/L		<	4	
HEXACHLOROCYCLOPENTADIENE	UG/L		<	30	
HEXACHLOROETHANE	UG/L		<	4	
INDENO(1,2,3-C,D)PYRENE	UG/L		<	2	
ISOPHORONE	UG/L		<	1	
NAPHTHALENE	UG/L		<	3	
NITROBENZENE	UG/L		<	2	
N-NITROSODIMETHYLAMINE	UG/L		<	1	
N-NITROSODI-N-PROPYLAMINE	UG/L		<	3	
PHENANTHRENE	UG/L		<	2	
PYRENE	UG/L		<	1	
2-CHLOROPHENOL	UG/L		<	2	
1,2,4-TRICHLOROBENZENE	UG/L		<	4	
2,4-DICHLOROPHENOL	UG/L		<	2	
2,4-DIMETHYLPHENOL	UG/L		<	2	
2,4-DINITROPHENOL	UG/L		<	19	
2-METHYL-4,6DINITROPHENOL	UG/L		<	2	
2-NITROPHENOL	UG/L		<	3	
4-NITROPHENOL	UG/L		<	18	
4-CHLORO-3-METHYLPHENOL	UG/L		<	2	
PENTACHLOROPHENOL	UG/L		<	0.1	
PHENOL	UG/L		<	2	
2,4,6-TRICHLOROPHENOL	UG/L		<	2	
N-NITROSODIPHENYLAMINE	UG/L		<	2	
O-CRESOL	UG/L		<	4	
M+P CRESOL	UG/L		<	3	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUPLICATE SPIKE D-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M42A SJ98348 07/07/95	WEFI M42A SJ05174 12/12/95	
CATIONS				
IRON	MG/L FE	< 0.02	< 0.02	
MANGANESE	MG/L MN	0.15	0.07	
METALS				
ARSENIC	MG/L AS	.0071	.0180	
BARIUM	MG/L BA	0.02	0.01	
CADMIUM	MG/L CD	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	
COBALT	MG/L CO	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001	
NICKEL	MG/L NI	< 0.02	< 0.02	
SELENIUM	MG/L SE	.0091	.0032	
SILVER	MG/L AG	< 0.01	< 0.01	
ZINC	MG/L ZN	0.11	0.02	
ANTIMONY	MG/L SB	.0010	.0025	
BERYLLIUM	MG/L BE	<.0005	<.0005	A
THALLIUM	MG/L TL	<0.002	<0.002	A
TIN	MG/L SN	< 0.06	< 0.06	
VANADIUM	MG/L V	< 0.05	< 0.05	

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ98352 07/07/95		WELL M43A SJ05578 12/21/95	
FIELD PARAMETERS					
DEPTH TO WATER	FT	27.3		42.59	
DEPTH TO BOTTOM	FT			60.02	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	19		19	
FIELD WATER TEMPERATURE	DEG C	22.90		20.65	
FIELD PH	PH	7.19		7.4	
FIELD CONDUCTIVITY	UMHOS/CM	2361		2172	
FIELD DISSOLVED O2	MG/L	0.45		2.32	
DISSOLVED CO2	MG/L	49		26	
GENERAL					
PH	PH	7.57	A	7.60	
CONDUCTIVITY	UMHOS/CM	2570		2200	
TOTAL DISSOLVED SOLIDS	MG/L	2129		1604	D
TOTAL HARDNESS	MG/L CACO3	1097	C	797	C
TOTAL CYANIDE	MG/L CN	<0.002		<0.002	
BORON	MG/L B	0.71		0.91	
ANIONS					
NITRATE NITROGEN	MG/L N	8.94	B	2.27	B
SULFATE	MG/L SO4	959	B	800	B
CHLORIDE	MG/L CL	83.2	B	54.5	B
TOTAL ALKALINITY	MG/L CACO3	429		378	
BICARBONATE ALKALINITY	MG/L CACO3	429		378	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1	
FLUORIDE	MG/L F	1.00		1.00	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	484		365	E
MAGNESIUM-HARDNESS	MG/L CACO3	613		432	E
SODIUM	MG/L NA	241		282	E
POTASSIUM	MG/L K	9.8		28.2	E
IRON	MG/L FE	0.61		105	E
MANGANESE	MG/L MN	0.27		1.69	E
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ98352 07/07/95		WELL M43A SJ05578 12/21/95	
ORGANIC MATTER					
TOTAL BOD	MG/L O	2		6	
SOLUBLE BOD	MG/L O	< 0.7		1	
TOTAL COD	MG/L O	10	D	20	
SOLUBLE COD	MG/L O	8		16	
TOTAL ORGANIC CARBON	MG/L C	1.6		22	
OIL & GREASE	MG/L EXTRAC	< 0.9		< 0.9	
TOTAL ORGANIC HALOGEN(TOX	UG/L	10		7.5	
METALS					
ARSENIC	MG/L AS	.0035		.0294	
BARIUM	MG/L BA	0.03		0.56	E
CADMIUM	MG/L CD	<0.003		<0.003	E
TOTAL CHROMIUM	MG/L CR	< 0.01		0.12	E
COBALT	MG/L CO	< 0.01		0.06	E
COPPER	MG/L CU	< 0.01		0.12	E
LEAD	MG/L PB	< 0.02		0.04	E
MERCURY	MG/L HG	<.0001		.0002	
NICKEL	MG/L NI	< 0.02		0.10	E
SELENIUM	MG/L SE	.0069		.0038	
SILVER	MG/L AG	< 0.01		< 0.01	E
ZINC	MG/L ZN	0.03		0.26	E
ANTIMONY	MG/L SB	.0010		.0036	
BERYLLIUM	MG/L BE	<.0005		.0030	
THALLIUM	MG/L TL	<0.002		<0.002	
TIN	MG/L SN	< 0.06		< 0.06	E
VANADIUM	MG/L V	< 0.05		0.20	E
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L			< 0.05	
DINOSEB	UG/L			< 0.1	
THIONAZIN	UG/L			< 1	
DIMETHOATE	UG/L			< 1	
DISULFOTON	UG/L			< 1	
METHYL PARATHION	UG/L			< 1	
ETHYL PARATHION	UG/L			< 1	
PHORATE	UG/L			< 1	
PP'-DDE	UG/L			< 0.01	
PP'-DDD	UG/L			< 0.01	
PP'-DDT	UG/L			< 0.01	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ98352 07/07/95	WELL M43A SJ05578 12/21/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
ALPHA-BHC	UG/L		< 0.01
LINDANE (GAMMA-BHC)	UG/L		< 0.01
HEPTACHLOR	UG/L		< 0.01
HEPTACHLOR EPOXIDE	UG/L		< 0.01
ALDRIN	UG/L		< 0.01
DIELDRIN	UG/L		< 0.01
ENDRIN	UG/L		< 0.01
TOXAPHENE	UG/L		< 0.5
METHOXYCLOR	UG/L		< 0.01
2,4-D(ACID)	UG/L		< 0.5
2,4,5-TP(SILVEX)	UG/L		< 0.05
AROCLOR 1242	UG/L		< 0.1
AROCLOR 1254	UG/L		< 0.05
BETA-BHC	UG/L		< 0.01
DELTA-BHC	UG/L		< 0.01
ENDOSULFAN I	UG/L		< 0.01
ENDOSULFAN II	UG/L		< 0.01
ENDOSULFAN SULFATE	UG/L		< 0.1
ENDRIN ALDEHYDE	UG/L		< 0.01
AROCLOR 1016	UG/L		< 0.1
AROCLOR 1221	UG/L		< 0.1
AROCLOR 1232	UG/L		< 0.1
AROCLOR 1248	UG/L		< 0.1
AROCLOR 1260	UG/L		< 0.1
TECHNICAL CHLORDANE	UG/L		< 0.05
VOLATILE ORGANIC COMPOUNDS			
ALLYL CHLORIDE	UG/L		< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1
CHLOROPRENE	UG/L		< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1
1,3-DICHLOROPROPANE	UG/L		< 0.3
2,2-DICHLOROPROPANE	UG/L		< 1
1,1-DICHLOROPROPENE	UG/L		< 1
ISOBUTYL ALCOHOL	UG/L		< 10
METHACRYLONITRILE	UG/L		< 10
METHYL IODIDE	UG/L	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1
PROPIONITRILE	UG/L		< 10

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ98352 07/07/95	WELL M43A SJ05578 12/21/95
VOLATILE ORGANIC COMPOUNDS			
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1
METHYL METHACRYLATE	UG/L		< 10
ETHYL METHACRYLATE	UG/L		< 5
METHYLENE CHLORIDE	UG/L	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1
BROMOFORM	UG/L	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1
M-DICHLOROBENZENE	UG/L		< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10
O-XYLENE	UG/L	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1
CHLOROMETHANE	UG/L	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5
ACROLEIN	UG/L		< 10
ACRYLONITRILE	UG/L	< 10	< 10
ACETONITRILE	UG/L		< 20
FREON 12 (CCL2F2)	UG/L		< 1
FREON 11 (CCL3F)	UG/L	< 1	< 1

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M43A SJ98352 07/07/95	WELL M43A SJ05578 12/21/95
VOLATILE ORGANIC COMPOUNDS				
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1
2-BUTANONE	UG/L		< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10
STYRENE	UG/L		< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L			< 2
M+P-XYLENE	UG/L		< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE				
ACETOPHENONE	UG/L			< 4
2-ACETYLAMINOFLUORENE	UG/L			< 3
4-AMINOBIPHENYL	UG/L			< 5
BENZYL ALCOHOL	UG/L			< 5
P-CHLOROANILINE	UG/L			< 6
CHLOROBENZILATE	UG/L			< 3
DIALLATE	UG/L			< 4
DIBENZOFURAN	UG/L			< 4
2,6-DICHLOROPHENOL	UG/L			< 3
P(DIMETHYLAMINO)AZOBENZEN	UG/L			< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			< 15
3,3'-DIMETHYLBENZIDINE	UG/L			< 4
M-DINITROBENZENE	UG/L			< 4
DIPHENYLAMINE	UG/L			< 10
ETHYL METHANESULFONATE	UG/L			< 4
FAMPHUR	UG/L			< 50
HEXACHLOROPROPENE	UG/L			< 20
ISODRIN	UG/L			< 5
ISOSAFROLE	UG/L			< 5
KEPONE	UG/L			< 50
METHAPYRILENE	UG/L			< 5
3-METHYLCHOLANTHRENE	UG/L			< 13
METHYL METHANESULFONATE	UG/L			< 11
2-METHYLNAPHTHALENE	UG/L			< 5
1,4-NAPHTHOQUINONE	UG/L			< 8
1-NAPHTHYLAMINE	UG/L			< 4
2-NAPHTHYLAMINE	UG/L			< 4
O-NITROANILINE	UG/L			< 4

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ98352 07/07/95		WELL M43A SJ05578 12/21/95	
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L		<	4	
P-NITROANILINE	UG/L		<	4	
N-NITROSODI-N-BUTYLAMINE	UG/L		<	5	
N-NITROSODIETHYLAMINE	UG/L		<	5	
N-NITROSOMETHYLETHYLAMINE	UG/L		<	6	
N-NITROSOPIPERIDINE	UG/L		<	5	
N-NITROSOPYRROLIDINE	UG/L		<	5	
5-NITRO-O-TOLUIDINE	UG/L		<	5	
PENTACHLOROBENZENE	UG/L		<	4	
PENTACHLORONITROBENZENE	UG/L		<	4	
PHENACETIN	UG/L		<	4	
P-PHENYLENEDIAMINE	UG/L		<	20	
PRONAMIDE	UG/L		<	5	
SAFROLE	UG/L		<	5	
1,2,4,5-TETRACHLOROBENZEN	UG/L		<	5	
2,3,4,6-TETRACHLOROPHENOL	UG/L		<	5	
O-TOLUIDINE	UG/L		<	5	
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		<	5	
SYM-TRINITROBENZENE	UG/L		<	48	
ACENAPHTHENE	UG/L		<	2	
ACENAPHTHYLENE	UG/L		<	2	
ANTHRACENE	UG/L		<	2	
BENZIDINE	UG/L		<	62	
BENZO(A)ANTHRACENE	UG/L		<	2	
BENZO(A)PYRENE	UG/L		<	0.3	
BENZO(B)FLUORANTHENE	UG/L		<	2	
BENZO(G.H.I.)PERYLENE	UG/L		<	1	
BENZO(K)FLUORANTHENE	UG/L		<	2	
BIS(2-CL-ETHOXY)METHANE	UG/L		<	2	
BIS(2-CHLOROETHYL)ETHER	UG/L		<	1	
BIS(2-CL-ISOPROPYL)ETHER	UG/L		<	7	
DIETHYLHEXYL PHTHALATE	UG/L		<	1	
4-BROMOPHENYL PHENYLETHER	UG/L		<	2	
BUTYLBENZYL PHTHALATE	UG/L		<	2	
2-CHLORONAPHTHALENE	UG/L		<	3	
4-CHLOROPHENYLPHENYLETHER	UG/L		<	2	
CHRYSENE	UG/L		<	1	
DIBENZO(A,H)ANTHRACENE	UG/L		<	1	
3,3'-DICHLOROBENZIDINE	UG/L		<	14	
DIETHYL PHTHALATE	UG/L		<	2	
DIMETHYL PHTHALATE	UG/L		<	2	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ98352 07/07/95		WELL M43A SJ05578 12/21/95							
ACID-BASE NEUTRAL EXTRACTABLE											
DI-N-BUTYL PHTHALATE	UG/L		<	1							
2,4-DINITROTOLUENE	UG/L		<	2							
2,6-DINITROTOLUENE	UG/L		<	2							
DI-N-OCTYL PHTHALATE	UG/L		<	2							
FLUORANTHENE	UG/L		<	2							
FLUORENE	UG/L		<	2							
HEXACHLOROBENZENE	UG/L		<	1							
HEXACHLOROBUTADIENE	UG/L		<	4							
HEXACHLOROCYCLOPENTADIENE	UG/L		<	30							
HEXACHLOROETHANE	UG/L		<	4							
INDENO(1,2,3-C,D)PYRENE	UG/L		<	2							
ISOPHORONE	UG/L		<	1							
NAPHTHALENE	UG/L		<	3							
NITROBENZENE	UG/L		<	2							
N-NITROSODIMETHYLAMINE	UG/L		<	1							
N-NITROSODI-N-PROPYLAMINE	UG/L		<	3							
PHENANTHRENE	UG/L		<	2							
PYRENE	UG/L		<	1							
2-CHLOROPHENOL	UG/L		<	2							
1,2,4-TRICHLOROBENZENE	UG/L		<	4							
2,4-DICHLOROPHENOL	UG/L		<	2							
2,4-DIMETHYLPHENOL	UG/L		<	2							
2,4-DINITROPHENOL	UG/L		<	19							
2-METHYL-4,6DINITROPHENOL	UG/L		<	2							
2-NITROPHENOL	UG/L		<	3							
4-NITROPHENOL	UG/L		<	18							
4-CHLORO-3-METHYLPHENOL	UG/L		<	2							
PENTACHLOROPHENOL	UG/L		<	0.1							
PHENOL	UG/L		<	2							
2,4,6-TRICHLOROPHENOL	UG/L		<	2							
N-NITROSODIPHENYLAMINE	UG/L		<	2							
O-CRESOL	UG/L		<	4							
M+P CRESOL	UG/L		<	3							

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M43A SJ98349 07/07/95	WEFI M43A SJ05577 12/21/95	
CATIONS				
IRON	MG/L FE	< 0.02	< 0.02	
MANGANESE	MG/L MN	0.23	0.02	
METALS				
ARSENIC	MG/L AS	.0036	.0055	
BARIUM	MG/L BA	0.02	0.02	
CADMIUM	MG/L CD	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	
COBALT	MG/L CO	< 0.01	< 0.01	
COPPER	MG/L CU	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001	
NICKEL	MG/L NI	< 0.02	< 0.02	
SELENIUM	MG/L SE	.0065	.0022	
SILVER	MG/L AG	< 0.01	< 0.01	
ZINC	MG/L ZN	0.03	0.01	
ANTIMONY	MG/L SB	.0013	.0011	
BERYLLIUM	MG/L BE	<.0005	<.0005	A
THALLIUM	MG/L TL	<0.002	<0.002	A
TIN	MG/L SN	< 0.06	< 0.06	
VANADIUM	MG/L V	< 0.05	< 0.05	

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA

BACKGROUND MONITORING WELLS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ92685 03/01/95		WELL M17A SJ97624 06/19/95	
FIELD PARAMETERS					
DEPTH TO WATER	FT	29.14		34.83	
DEPTH TO BOTTOM	FT	49.70			
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	18		18	
FIELD WATER TEMPERATURE	DEG C	15.94		16.63	
FIELD PH	PH	6.87		7.04	
FIELD CONDUCTIVITY	UMHOS/CM	2441		2504	
FIELD DISSOLVED O2	MG/L	2.86		4.75	
DISSOLVED CO2	MG/L	102			
GENERAL					
PH	PH	7.59		7.60	E
CONDUCTIVITY	UMHOS/CM	2640			
TOTAL DISSOLVED SOLIDS	MG/L	2149		1905	
TOTAL HARDNESS	MG/L CACO3	1248			
TOTAL CYANIDE	MG/L CN	<0.002			
BORON	MG/L B	0.52			
ANIONS					
NITRATE NITROGEN	MG/L N	3.09	A	1.20	A
SULFATE	MG/L SO4	1080	A	858	A
CHLORIDE	MG/L CL	88.1	A	73.8	A
TOTAL ALKALINITY	MG/L CACO3	433			
BICARBONATE ALKALINITY	MG/L CACO3	433			
TOTAL SULFIDE	MG/L S	< 0.1			
FLUORIDE	MG/L F	1.17			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	552			
MAGNESIUM-HARDNESS	MG/L CACO3	696			
SODIUM	MG/L NA	215			
POTASSIUM	MG/L K	9.0			
IRON	MG/L FE	0.75			
MANGANESE	MG/L MN	0.01			
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.2			

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ92685 03/01/95	WELL M17A SJ97624 06/19/95
ORGANIC MATTER			
TOTAL BOD	MG/L O	< 0.7	
SOLUBLE BOD	MG/L O	< 0.7	
TOTAL COD	MG/L O	7.0	
SOLUBLE COD	MG/L O	7.0	
TOTAL ORGANIC CARBON	MG/L C	2.9	
OIL & GREASE	MG/L EXTRAC	< 0.9	
TOTAL ORGANIC HALOGEN(TOX	UG/L	12 B	
METALS			
ARSENIC	MG/L AS	0.001	
BARIUM	MG/L BA	0.02	
CADMIUM	MG/L CD	<0.003	
TOTAL CHROMIUM	MG/L CR	0.02	
COBALT	MG/L CO	< 0.01	
COPPER	MG/L CU	< 0.01	
LEAD	MG/L PB	< 0.02	
MERCURY	MG/L HG	<.0001	
NICKEL	MG/L NI	0.02	
SELENIUM	MG/L SE	<0.001	
SILVER	MG/L AG	< 0.01	
ZINC	MG/L ZN	< 0.01	
ANTIMONY	MG/L SB	<0.001	
BERYLLIUM	MG/L BE	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
2,4,5-T	UG/L	< 0.05	
DINOSEB	UG/L	< 0.1	
THIONAZIN	UG/L	< 1	
DIMETHOATE	UG/L	< 1	
DISULFOTON	UG/L	< 1	
METHYL PARATHION	UG/L	< 1	
ETHYL PARATHION	UG/L	< 1	
PHORATE	UG/L	< 1	
PP'-DDE	UG/L	< 0.01	
PP'-DDD	UG/L	< 0.01	
PP'-DDT	UG/L	< 0.01	

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ92685 03/01/95		WELL M17A SJ97624 06/19/95	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	< 0.01			
LINDANE (GAMMA-BHC)	UG/L	< 0.01			
HEPTACHLOR	UG/L	< 0.01			
HEPTACHLOR EPOXIDE	UG/L	< 0.01			
ALDRIN	UG/L	< 0.01			
DIELDRIN	UG/L	< 0.01			
ENDRIN	UG/L	< 0.01			
TOXAPHENE	UG/L	< 0.5			
METHOXYCLOR	UG/L	< 0.01			
2,4-D(ACID)	UG/L	< 0.5			
2,4,5-TP(SILVEX)	UG/L	< 0.05			
AROCLOR 1242	UG/L	< 0.1			
AROCLOR 1254	UG/L	< 0.05			
BETA-BHC	UG/L	< 0.01			
DELTA-BHC	UG/L	< 0.01			
ENDOSULFAN I	UG/L	< 0.01			
ENDOSULFAN II	UG/L	< 0.01			
ENDOSULFAN SULFATE	UG/L	< 0.1			
ENDRIN ALDEHYDE	UG/L	< 0.01			
AROCLOR 1016	UG/L	< 0.1			
AROCLOR 1221	UG/L	< 0.1			
AROCLOR 1232	UG/L	< 0.1			
AROCLOR 1248	UG/L	< 0.1			
AROCLOR 1260	UG/L	< 0.1			
TECHNICAL CHLORDANE	UG/L	< 0.05	C		
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	< 100			
BROMOCHLOROMETHANE	UG/L	< 0.5		< 1	
CHLOROPRENE	UG/L	< 1000			
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01		< 0.01	
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2		< 1	
1,3-DICHLOROPROPANE	UG/L	< 0.5			
2,2-DICHLOROPROPANE	UG/L	< 0.5			
1,1-DICHLOROPROPENE	UG/L	< 0.5			
ISOBUTYL ALCOHOL	UG/L	< 100			
METHACRYLONITRILE	UG/L	< 10			
METHYL IODIDE	UG/L	< 0.5		< 1	
METHYLENE BROMIDE	UG/L	< 0.5		< 1	
PROPIONITRILE	UG/L	< 20			

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ92685 03/01/95		WELL M17A SJ97624 06/19/95	
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	0.5	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	0.5	<	1
METHYL METHACRYLATE	UG/L	<	10		
ETHYL METHACRYLATE	UG/L	<	10		
METHYLENE CHLORIDE	UG/L	<	3	<	1
CHLOROFORM	UG/L	<	0.5	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	0.5	<	1
CARBON TETRACHLORIDE	UG/L	<	0.5	<	0.3
1,1-DICHLOROETHENE	UG/L	<	0.5	<	1
TRICHLOROETHYLENE	UG/L	<	0.5	<	1
TETRACHLOROETHYLENE	UG/L	<	0.5	<	1
BROMODICHLOROMETHANE	UG/L	<	0.5	<	1
DIBROMOCHLOROMETHANE	UG/L	<	0.5	<	1
BROMOFORM	UG/L	<	0.5	<	1
CHLOROBENZENE	UG/L	<	0.5	<	1
VINYL CHLORIDE	UG/L	<	0.5	<	0.3
O-DICHLOROBENZENE	UG/L	<	0.5	<	1
M-DICHLOROBENZENE	UG/L	<	0.5		
P-DICHLOROBENZENE	UG/L	<	0.5	<	1
1,1-DICHLOROETHANE	UG/L	<	0.5	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.5	<	1
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.3
BENZENE	UG/L	<	0.5	<	0.5
TOLUENE	UG/L	<	0.5	<	1
ETHYL BENZENE	UG/L	<	0.5	<	1
VINYL ACETATE	UG/L	<	10	<	10
O-XYLENE	UG/L	<	0.5	<	1
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	0.5	<	1
BROMOMETHANE	UG/L	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1
2-CHLOROETHYLVINYLETHER	UG/L	<	1		
CHLOROMETHANE	UG/L	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5
ACROLEIN	UG/L	<	200		
ACRYLONITRILE	UG/L	<	50	<	10
ACETONITRILE	UG/L	<	100		
FREON 12 (CCL2F2)	UG/L	<	0.5		
FREON 11 (CCL3F)	UG/L	<	1	<	1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M17A SJ92685 03/01/95		WELL M17A SJ97624 06/19/95	
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L		< 0.01		< 0.01	
ACETONE	UG/L		< 10		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5		< 1	
2-BUTANONE	UG/L		< 10		< 10	
4-METHYL-2-PENTANONE	UG/L		< 10		< 10	
STYRENE	UG/L		< 0.5		< 1	
2,4,5-TRICHLOROPHENOL	UG/L		< 2			
M+P-XYLENE	UG/L		< 0.5		< 1	
CARBON DISULFIDE	UG/L	CS2	< 0.5		< 1	
2-HEXANONE	UG/L	C6H12O	< 10		< 5	
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L		< 4			
2-ACETYLAMINOFLUORENE	UG/L		< 3			
4-AMINOBIPHENYL	UG/L		< 5			
BENZYL ALCOHOL	UG/L		< 5			
P-CHLOROANILINE	UG/L		< 6			
CHLOROBENZILATE	UG/L		< 3			
DIALLATE	UG/L		< 4			
DIBENZOFURAN	UG/L		< 4			
2,6-DICHLOROPHENOL	UG/L		< 4	D		
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4			
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15			
3,3'-DIMETHYLBENZIDINE	UG/L		< 4			
M-DINITROBENZENE	UG/L		< 4			
DIPHENYLAMINE	UG/L		< 10			
ETHYL METHANESULFONATE	UG/L		< 4			
FAMPHUR	UG/L		< 50			
HEXACHLOROPROPENE	UG/L		< 20			
ISODRIN	UG/L		< 5			
ISOSAFROLE	UG/L		< 5			
KEPONE	UG/L		< 50			
METHAPYRILENE	UG/L		< 5			
3-METHYLCHOLANTHRENE	UG/L		< 13	D		
METHYL METHANESULFONATE	UG/L		< 11			
2-METHYLNAPHTHALENE	UG/L		< 5			
1,4-NAPHTHOQUINONE	UG/L		< 8			
1-NAPHTHYLAMINE	UG/L		< 4			
2-NAPHTHYLAMINE	UG/L		< 4			
O-NITROANILINE	UG/L		< 4			

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ92685 03/01/95		WELL M17A SJ97624 06/19/95	
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	<	4		
P-NITROANILINE	UG/L	<	4		
N-NITROSODI-N-BUTYLAMINE	UG/L	<	5		
N-NITROSODIETHYLAMINE	UG/L	<	5		
N-NITROSOMETHYLETHYLAMINE	UG/L	<	6		
N-NITROSOPIPERIDINE	UG/L	<	5		
N-NITROSOPYRROLIDINE	UG/L	<	5		
5-NITRO-O-TOLUIDINE	UG/L	<	5		
PENTACHLOROBENZENE	UG/L	<	4		
PENTACHLORONITROBENZENE	UG/L	<	4		
PHENACETIN	UG/L	<	4		
P-PHENYLENEDIAMINE	UG/L	<	20		
PRONAMIDE	UG/L	<	5		
SAFROLE	UG/L	<	5		
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	5		
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	5		
O-TOLUIDINE	UG/L	<	5		
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5		
SYM-TRINITROBENZENE	UG/L	<	48		
ACENAPHTHENE	UG/L	<	2		
ACENAPHTHYLENE	UG/L	<	2		
ANTHRACENE	UG/L	<	2		
BENZIDINE	UG/L	<	62		
BENZO(A)ANTHRACENE	UG/L	<	2		
BENZO(A)PYRENE	UG/L	<	0.3		
BENZO(B)FLUORANTHENE	UG/L	<	2		
BENZO(G,H,I,)PERYLENE	UG/L	<	1		
BENZO(K)FLUORANTHENE	UG/L	<	2		
BIS(2-CL-ETHOXY)METHANE	UG/L	<	2		
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1		
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	7		
DIETHYLHEXYL PHTHALATE	UG/L	<	1		
4-BROMOPHENYL PHENYLETHER	UG/L	<	2		
BUTYLBENZYL PHTHALATE	UG/L	<	2		
2-CHLORONAPHTHALENE	UG/L	<	3		
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2		
CHRYSENE	UG/L	<	1		
DIBENZO(A,H)ANTHRACENE	UG/L	<	1		
3,3'-DICHLOROBENZIDINE	UG/L	<	14 D		
DIETHYL PHTHALATE	UG/L	<	2 D		
DIMETHYL PHTHALATE	UG/L	<	2 D		

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M17A SJ92685 03/01/95		WELL M17A SJ97624 06/19/95	
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L	<	1		
2,4-DINITROTOLUENE	UG/L	<	2		
2,6-DINITROTOLUENE	UG/L	<	2		
DI-N-OCTYL PHTHALATE	UG/L	<	2		
FLUORANTHENE	UG/L	<	2		
FLUORENE	UG/L	<	2		
HEXACHLOROBENZENE	UG/L	<	1		
HEXACHLOROBUTADIENE	UG/L	<	4		
HEXACHLOROCYCLOPENTADIENE	UG/L	<	30		
HEXACHLOROETHANE	UG/L	<	4		
INDENO(1,2,3-C,D)PYRENE	UG/L	<	2		
ISOPHORONE	UG/L	<	1		
NAPHTHALENE	UG/L	<	3		
NITROBENZENE	UG/L	<	2		
N-NITROSODIMETHYLAMINE	UG/L	<	1		
N-NITROSODI-N-PROPYLAMINE	UG/L	<	3		
PHENANTHRENE	UG/L	<	2		
PYRENE	UG/L	<	1		
2-CHLOROPHENOL	UG/L	<	2 D		
1,2,4-TRICHLOROBENZENE	UG/L	<	4		
2,4-DICHLOROPHENOL	UG/L	<	2		
2,4-DIMETHYLPHENOL	UG/L	<	2		
2,4-DINITROPHENOL	UG/L	<	19		
2-METHYL-4,6DINITROPHENOL	UG/L	<	2		
2-NITROPHENOL	UG/L	<	3		
4-NITROPHENOL	UG/L	<	18		
4-CHLORO-3-METHYLPHENOL	UG/L	<	2		
PENTACHLOROPHENOL	UG/L	<	0.2		
PHENOL	UG/L	<	2		
2,4,6-TRICHLOROPHENOL	UG/L	<	2		
N-NITROSODIPHENYLAMINE	UG/L	<	2		
O-CRESOL	UG/L	<	4		
M+P CRESOL	UG/L	<	3		

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-ND = NONE DETECTED D-AMENDED TEST RESULT E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M17A SJ92684 03/01/95	WEFI M17A SJ97623 06/19/95
CATIONS			
IRON	MG/L FE	0.04	
MANGANESE	MG/L MN	0.006	
METALS			
ARSENIC	MG/L AS	0.001	
BARIUM	MG/L BA	0.02	
CADMIUM	MG/L CD	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	
COBALT	MG/L CO	< 0.01	
COPPER	MG/L CU	< 0.01	
LEAD	MG/L PB	< 0.02	
MERCURY	MG/L HG	<.0001 A	
NICKEL	MG/L NI	0.02	
SELENIUM	MG/L SE	<0.001	
SILVER	MG/L AG	< 0.01	
ZINC	MG/L ZN	< 0.01	
ANTIMONY	MG/L SB	<0.001	
BERYLLIUM	MG/L BE	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ93504 03/17/95	WELL M18A SJ97727 06/21/95
FIELD PARAMETERS			
DEPTH TO WATER	FT	26.57	16.6
DEPTH TO BOTTOM	FT	39.20	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	17
FIELD WATER TEMPERATURE	DEG C	19.30	19.49
FIELD PH	PH	6.70	6.87
FIELD CONDUCTIVITY	UMHOS/CM	4638	4182
FIELD DISSOLVED O2	MG/L	8.62	8.63
DISSOLVED CO2	MG/L	104	
GENERAL			
PH	PH	7.51	7.43 C
CONDUCTIVITY	UMHOS/CM	4630	
TOTAL DISSOLVED SOLIDS	MG/L	4114	3884
TOTAL HARDNESS	MG/L CACO3	2250	
TOTAL CYANIDE	MG/L CN	<0.002	
BORON	MG/L B	1.05	
ANIONS			
NITRATE NITROGEN	MG/L N	22.3 A	19.9 A
SULFATE	MG/L SO4	2390 A	2150 A
CHLORIDE	MG/L CL	195 A	195 A
TOTAL ALKALINITY	MG/L CACO3	297	
BICARBONATE ALKALINITY	MG/L CACO3	297	
TOTAL SULFIDE	MG/L S	< 0.1	
FLUORIDE	MG/L F	1.43	
CATIONS			
CALCIUM-HARDNESS	MG/L CACO3	1070	
MAGNESIUM-HARDNESS	MG/L CACO3	1180	
SODIUM	MG/L NA	410	
POTASSIUM	MG/L K	7.5	
IRON	MG/L FE	0.12	
MANGANESE	MG/L MN	0.003	
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	< 0.2	

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ93504 03/17/95		WELL M18A SJ97727 06/21/95	
ORGANIC MATTER					
TOTAL BOD	MG/L O	< 0.7			
SOLUBLE BOD	MG/L O	< 0.7			
TOTAL COD	MG/L O	11			
SOLUBLE COD	MG/L O	11			
TOTAL ORGANIC CARBON	MG/L C	2.6			
OIL & GREASE	MG/L EXTRAC	< 0.9			
TOTAL ORGANIC HALOGEN(TOX	UG/L	17			
METALS					
ARSENIC	MG/L AS	<0.001			
BARIUM	MG/L BA	0.01			
CADMIUM	MG/L CD	<0.003			
TOTAL CHROMIUM	MG/L CR	< 0.01			
COBALT	MG/L CO	< 0.01			
COPPER	MG/L CU	< 0.01			
LEAD	MG/L PB	< 0.02			
MERCURY	MG/L HG	<.0001			
NICKEL	MG/L NI	0.04	C		
SELENIUM	MG/L SE	0.025			
SILVER	MG/L AG	< 0.01			
ZINC	MG/L ZN	0.03	C		
ANTIMONY	MG/L SB	<0.001			
BERYLLIUM	MG/L BE	<.0005			
THALLIUM	MG/L TL	<0.002		<0.002	
TIN	MG/L SN	< 0.06		< 0.06	
VANADIUM	MG/L V	< 0.05		< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	< 0.05			
DINOSEB	UG/L	< 0.1			
THIONAZIN	UG/L	< 1			
DIMETHOATE	UG/L	< 1			
DISULFOTON	UG/L	< 1			
METHYL PARATHION	UG/L	< 1			
ETHYL PARATHION	UG/L	< 1			
PHORATE	UG/L	< 1			
PP'-DDE	UG/L	< 0.01			
PP'-DDD	UG/L	< 0.01			
PP'-DDT	UG/L	< 0.01			

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ93504 03/17/95	WELL M18A SJ97727 06/21/95								
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ALPHA-BHC	UG/L	< 0.01									
LINDANE (GAMMA-BHC)	UG/L	< 0.01									
HEPTACHLOR	UG/L	< 0.01									
HEPTACHLOR EPOXIDE	UG/L	< 0.01									
ALDRIN	UG/L	< 0.01									
DIELDRIN	UG/L	< 0.01									
ENDRIN	UG/L	< 0.01									
TOXAPHENE	UG/L	< 0.5									
METHOXYCLOR	UG/L	< 0.01									
2,4-D(ACID)	UG/L	< 0.5									
2,4,5-TP(SILVEX)	UG/L	< 0.05									
AROCLOR 1242	UG/L	< 0.1									
AROCLOR 1254	UG/L	< 0.05									
BETA-BHC	UG/L	< 0.01									
DELTA-BHC	UG/L	< 0.01									
ENDOSULFAN I	UG/L	< 0.01									
ENDOSULFAN II	UG/L	< 0.01									
ENDOSULFAN SULFATE	UG/L	< 0.1									
ENDRIN ALDEHYDE	UG/L	< 0.01									
AROCLOR 1016	UG/L	< 0.1									
AROCLOR 1221	UG/L	< 0.1									
AROCLOR 1232	UG/L	< 0.1									
AROCLOR 1248	UG/L	< 0.1									
AROCLOR 1260	UG/L	< 0.1									
TECHNICAL CHLORDANE	UG/L	< 0.05 B									
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L	< 100									
BROMOCHLOROMETHANE	UG/L	< 0.5	< 1								
CHLOROPRENE	UG/L	< 1000									
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01								
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 1								
1,3-DICHLOROPROPANE	UG/L	< 0.5									
2,2-DICHLOROPROPANE	UG/L	< 0.5									
1,1-DICHLOROPROPENE	UG/L	< 0.5									
ISOBUTYL ALCOHOL	UG/L	< 100									
METHACRYLONITRILE	UG/L	< 10									
METHYL IODIDE	UG/L	< 0.5	< 1								
METHYLENE BROMIDE	UG/L	< 0.5	< 1								
PROPIONITRILE	UG/L	< 20									

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ93504 03/17/95	WELL M18A SJ97727 06/21/95
VOLATILE ORGANIC COMPOUNDS			
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1
METHYL METHACRYLATE	UG/L	< 10	
ETHYL METHACRYLATE	UG/L	< 10	
METHYLENE CHLORIDE	UG/L	< 3	< 1
CHLOROFORM	UG/L	< 0.5	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1
BROMOFORM	UG/L	< 0.5	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1
M-DICHLOROBENZENE	UG/L	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3
BENZENE	UG/L	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1
VINYL ACETATE	UG/L	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1
BROMOMETHANE	UG/L	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1	
CHLOROMETHANE	UG/L	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5
ACROLEIN	UG/L	< 200	
ACRYLONITRILE	UG/L	< 50	< 10
ACETONITRILE	UG/L	< 100	
FREON 12 (CCL2F2)	UG/L	< 0.5	
FREON 11 (CCL3F)	UG/L	< 1	< 1

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ93504 03/17/95		WELL M18A SJ97727 06/21/95	
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01		< 0.01	
ACETONE	UG/L	< 10		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5		< 1	
2-BUTANONE	UG/L	< 10		< 10	
4-METHYL-2-PENTANONE	UG/L	< 10		< 10	
STYRENE	UG/L	< 0.5		< 1	
2,4,5-TRICHLOROPHENOL	UG/L	< 2			
M+P-XYLENE	UG/L	< 0.5		< 1	
CARBON DISULFIDE	UG/L CS2	< 0.5		< 1	
2-HEXANONE	UG/L C6H12O	< 10		< 5	
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	< 4			
2-ACETYLAMINOFLUORENE	UG/L	< 3			
4-AMINOBIPHENYL	UG/L	< 5			
BENZYL ALCOHOL	UG/L	< 5			
P-CHLOROANILINE	UG/L	< 6			
CHLOROBENZILATE	UG/L	< 3			
DIALLATE	UG/L	< 4			
DIBENZOFURAN	UG/L	< 4			
2,6-DICHLOROPHENOL	UG/L	< 4	D		
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 4			
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	< 15			
3,3'-DIMETHYLBENZIDINE	UG/L	< 4			
M-DINITROBENZENE	UG/L	< 4			
DIPHENYLAMINE	UG/L	< 10			
ETHYL METHANESULFONATE	UG/L	< 4			
FAMPHUR	UG/L	< 50			
HEXACHLOROPROPENE	UG/L	< 20			
ISODRIN	UG/L	< 5			
ISOSAFROLE	UG/L	< 5			
KEPONE	UG/L	< 50			
METHAPYRILENE	UG/L	< 5			
3-METHYLCHOLANTHRENE	UG/L	< 13	D		
METHYL METHANESULFONATE	UG/L	< 11			
2-METHYLNAPHTHALENE	UG/L	< 5			
1,4-NAPHTHOQUINONE	UG/L	< 8			
1-NAPHTHYLAMINE	UG/L	< 4			
2-NAPHTHYLAMINE	UG/L	< 4			
O-NITROANILINE	UG/L	< 4			

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ93504 03/17/95		WELL M18A SJ97727 06/21/95	
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	<	4		
P-NITROANILINE	UG/L	<	4		
N-NITROSODI-N-BUTYLAMINE	UG/L	<	5		
N-NITROSODIETHYLAMINE	UG/L	<	5		
N-NITROSOMETHYLETHYLAMINE	UG/L	<	6		
N-NITROSOPIPERIDINE	UG/L	<	5		
N-NITROSOPYRROLIDINE	UG/L	<	5		
5-NITRO-O-TOLUIDINE	UG/L	<	5		
PENTACHLOROBENZENE	UG/L	<	4		
PENTACHLORONITROBENZENE	UG/L	<	4		
PHENACETIN	UG/L	<	4		
P-PHENYLENEDIAMINE	UG/L	<	20		
PRONAMIDE	UG/L	<	5		
SAFROLE	UG/L	<	5		
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	5		
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	5		
O-TOLUIDINE	UG/L	<	5		
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5		
SYM-TRINITROBENZENE	UG/L	<	48		
ACENAPHTHENE	UG/L	<	2		
ACENAPHTHYLENE	UG/L	<	2		
ANTHRACENE	UG/L	<	2		
BENZIDINE	UG/L	<	62		
BENZO(A)ANTHRACENE	UG/L	<	2		
BENZO(A)PYRENE	UG/L	<	0.3		
BENZO(B)FLUORANTHENE	UG/L	<	2		
BENZO(G.H.I.)PERYLENE	UG/L	<	1		
BENZO(K)FLUORANTHENE	UG/L	<	2		
BIS(2-CL-ETHOXY)METHANE	UG/L	<	2		
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1		
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	7		
DIETHYLHEXYL PHTHALATE	UG/L		2		
4-BROMOPHENYL PHENYLETHER	UG/L	<	2		
BUTYLBENZYL PHTHALATE	UG/L	<	2		
2-CHLORONAPHTHALENE	UG/L	<	3		
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2		
CHRYSENE	UG/L	<	1		
DIBENZO(A,H)ANTHRACENE	UG/L	<	1		
3,3'-DICHLOROBENZIDINE	UG/L	<	14		
DIETHYL PHTHALATE	UG/L	<	2		
DIMETHYL PHTHALATE	UG/L	<	2		

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M18A SJ93504 03/17/95	WELL M18A SJ97727 06/21/95
ACID-BASE NEUTRAL EXTRACTABLE			
DI-N-BUTYL PHTHALATE	UG/L	< 1	
2,4-DINITROTOLUENE	UG/L	< 2	
2,6-DINITROTOLUENE	UG/L	< 2	
DI-N-OCTYL PHTHALATE	UG/L	< 2	
FLUORANTHENE	UG/L	< 2	
FLUORENE	UG/L	< 2	
HEXACHLOROBENZENE	UG/L	< 1	
HEXACHLOROBUTADIENE	UG/L	< 4	
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30	
HEXACHLOROETHANE	UG/L	< 4	
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2	
ISOPHORONE	UG/L	< 1	
NAPHTHALENE	UG/L	< 3	
NITROBENZENE	UG/L	< 2	
N-NITROSODIMETHYLAMINE	UG/L	< 1	
N-NITROSODI-N-PROPYLAMINE	UG/L	< 3	
PHENANTHRENE	UG/L	< 2	
PYRENE	UG/L	< 1	
2-CHLOROPHENOL	UG/L	< 2	
1,2,4-TRICHLOROBENZENE	UG/L	< 4	
2,4-DICHLOROPHENOL	UG/L	< 2	
2,4-DIMETHYLPHENOL	UG/L	< 2	
2,4-DINITROPHENOL	UG/L	< 19	
2-METHYL-4,6DINITROPHENOL	UG/L	< 2	
2-NITROPHENOL	UG/L	< 3	
4-NITROPHENOL	UG/L	< 18	
4-CHLORO-3-METHYLPHENOL	UG/L	< 2	
PENTACHLOROPHENOL	UG/L	< 0.1	
PHENOL	UG/L	< 2	
2,4,6-TRICHLOROPHENOL	UG/L	< 2	
N-NITROSODIPHENYLAMINE	UG/L	< 2	
O-CRESOL	UG/L	< 4	
M+P CRESOL	UG/L	< 3	

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M18A SJ93501 03/17/95		WEFI M18A SJ97724 06/21/95	
CATIONS					
IRON	MG/L FE	< 0.02			
MANGANESE	MG/L MN	<0.003			
METALS					
ARSENIC	MG/L AS	<0.001			
BARIUM	MG/L BA	0.01			
CADMIUM	MG/L CD	<0.003			
TOTAL CHROMIUM	MG/L CR	< 0.01			
COBALT	MG/L CO	< 0.01			
COPPER	MG/L CU	0.01			
LEAD	MG/L PB	< 0.02			
MERCURY	MG/L HG	<.0001			
NICKEL	MG/L NI	0.06	A		
SELENIUM	MG/L SE	0.024			
SILVER	MG/L AG	< 0.01			
ZINC	MG/L ZN	0.09	A		
ANTIMONY	MG/L SB	<0.001			
BERYLLIUM	MG/L BE	<.0005			
THALLIUM	MG/L TL	<0.002		<0.002	
TIN	MG/L SN	< 0.06		< 0.06	
VANADIUM	MG/L V	< 0.05		< 0.05	

FOOTNOTES : A-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ92691 03/01/95	WELL M19B SJ92697 03/01/95	WELL M19B SJ97318 06/13/95	WELL M19B SJ97319 06/13/95
FIELD PARAMETERS					
DEPTH TO WATER	FT	37.06		33.59	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	18		18	
FIELD WATER TEMPERATURE	DEG C	18.69		20.94	
FIELD PH	PH	6.90		6.61	
FIELD CONDUCTIVITY	UMHOS/CM	3269		3285	
FIELD DISSOLVED O2	MG/L	0.13		0.16	
DISSOLVED CO2	MG/L	86			
GENERAL					
PH	PH	7.55	7.59	7.38	7.37 A
CONDUCTIVITY	UMHOS/CM	3130 A	3120		
TOTAL DISSOLVED SOLIDS	MG/L	2733	2626	2705	2656
TOTAL HARDNESS	MG/L CACO3	1508	1523		
TOTAL CYANIDE	MG/L CN	<0.002	<0.002		
BORON	MG/L B	0.62	0.65 C		
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.02 B	< 0.02 B	0.03 B	0.04 B
SULFATE	MG/L SO4	1400 B	1410 B	1430 B	1430 B
CHLORIDE	MG/L CL	134 B	132 B	137 B	136 B
TOTAL ALKALINITY	MG/L CACO3	388 C	389		
BICARBONATE ALKALINITY	MG/L CACO3	388	389		
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1		
FLUORIDE	MG/L F	1.18	1.34		
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	709	714 F		
MAGNESIUM-HARDNESS	MG/L CACO3	799	807 F		
SODIUM	MG/L NA	259	265 F		
POTASSIUM	MG/L K	5.4	6.2 F		
IRON	MG/L FE	4.16 A	12.4 F		
MANGANESE	MG/L MN	0.13	0.20 F		
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.2	< 0.2		
TOTAL BOD	MG/L O	< 0.7	< 0.7		

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ92691 03/01/95	WELL M19B SJ92697 03/01/95	WELL M19B SJ97318 06/13/95	WELL M19B SJ97319 06/13/95
ORGANIC MATTER					
SOLUBLE BOD	MG/L O	< 0.7	< 0.7 A		
TOTAL COD	MG/L O	9.0	15		
SOLUBLE COD	MG/L O	6.0	4.0 C		
TOTAL ORGANIC CARBON	MG/L C	3.3	3.1		
OIL & GREASE	MG/L EXTRAC	< 0.9	< 0.9		
TOTAL ORGANIC HALOGEN(TOX	UG/L	< 3.0	< 3.0		
METALS					
ARSENIC	MG/L AS	0.001	0.001		
BARIUM	MG/L BA	0.04 A	0.07 F		
CADMIUM	MG/L CD	<0.003	<0.003 F		
TOTAL CHROMIUM	MG/L CR	< 0.01	0.01 F		
COBALT	MG/L CO	< 0.01	< 0.01 F		
COPPER	MG/L CU	< 0.01	0.01 F		
LEAD	MG/L PB	< 0.02	< 0.02 F		
MERCURY	MG/L HG	<.0001	<.0001		
NICKEL	MG/L NI	< 0.02	< 0.02 F		
SELENIUM	MG/L SE	<0.001	<0.001		
SILVER	MG/L AG	< 0.01	< 0.01 F		
ZINC	MG/L ZN	0.02 A	0.05 F		
ANTIMONY	MG/L SB	<0.001	<0.001		
BERYLLIUM	MG/L BE	<.0005	.0005 F		
THALLIUM	MG/L TL	<0.002	<0.002 F	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06 F	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05 F	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	< 0.05	< 0.05		
DINOSEB	UG/L	< 0.1	< 0.1		
THIONAZIN	UG/L	< 1	< 1		
DIMETHOATE	UG/L	< 1	< 1		
DISULFOTON	UG/L	< 1	< 1		
METHYL PARATHION	UG/L	< 1	< 1		
ETHYL PARATHION	UG/L	< 1	< 1		
PHORATE	UG/L	< 1	< 1		
PP'-DDE	UG/L	< 0.01	< 0.01		
PP'-DDD	UG/L	< 0.01	< 0.01		
PP'-DDT	UG/L	< 0.01	< 0.01		
ALPHA-BHC	UG/L	< 0.01	< 0.01		

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ92691 03/01/95	WELL M19B SJ92697 03/01/95	WELL M19B SJ97318 06/13/95	WELL M19B SJ97319 06/13/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01		
HEPTACHLOR	UG/L	< 0.01	< 0.01		
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01		
ALDRIN	UG/L	< 0.01	< 0.01		
DIELDRIN	UG/L	< 0.01	< 0.01		
ENDRIN	UG/L	< 0.01	< 0.01		
TOXAPHENE	UG/L	< 0.5	< 0.5		
METHOXYCLOR	UG/L	< 0.01	< 0.01		
2,4-D(ACID)	UG/L	< 0.5	< 0.5		
2,4,5-TP(SILVEX)	UG/L	< 0.05	< 0.05		
AROCLOR 1242	UG/L	< 0.1	< 0.1		
AROCLOR 1254	UG/L	< 0.05	< 0.05		
BETA-BHC	UG/L	< 0.01	< 0.01		
DELTA-BHC	UG/L	< 0.01	< 0.01		
ENDOSULFAN I	UG/L	< 0.01	< 0.01		
ENDOSULFAN II	UG/L	< 0.01	< 0.01		
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1		
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01		
AROCLOR 1016	UG/L	< 0.1	< 0.1		
AROCLOR 1221	UG/L	< 0.1	< 0.1		
AROCLOR 1232	UG/L	< 0.1	< 0.1		
AROCLOR 1248	UG/L	< 0.1	< 0.1		
AROCLOR 1260	UG/L	< 0.1	< 0.1		
TECHNICAL CHLORDANE	UG/L	< 0.05 D	< 0.05 D		
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	< 100	< 100		
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
CHLOROPRENE	UG/L	< 1000	< 1000		
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 1.0	< 1.0
1,3-DICHLOROPROPANE	UG/L	< 0.5	< 0.5		
2,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5		
1,1-DICHLOROPROPENE	UG/L	< 0.5	< 0.5		
ISOBUTYL ALCOHOL	UG/L	< 100	< 100		
METHACRYLONITRILE	UG/L	< 10	< 10		
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
PROPIONITRILE	UG/L	< 20	< 20		
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-ND = NONE DETECTED E-AMENDED TEST RESULT
F-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ92691 03/01/95	WELL M19B SJ92697 03/01/95	WELL M19B SJ97318 06/13/95	WELL M19B SJ97319 06/13/95
VOLATILE ORGANIC COMPOUNDS					
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
METHYL METHACRYLATE	UG/L	< 10	< 10		
ETHYL METHACRYLATE	UG/L	< 10	< 10		
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 1.0	< 1.0
CHLOROFORM	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
BROMOFORM	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5		
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
VINYL ACETATE	UG/L	< 10	< 10	< 10.0	< 10.0
O-XYLENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
BROMOMETHANE	UG/L	< 1	< 1	< 1.0	< 1.0
CHLOROETHANE	UG/L	< 1	< 1	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	UG/L	< 1	< 1		
CHLOROMETHANE	UG/L	< 1	< 1	< 1.0	< 1.0
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 200	< 200		
ACRYLONITRILE	UG/L	< 50	< 50	< 10.0	< 10.0
ACETONITRILE	UG/L	< 100	< 100		
FREON 12 (CCL2F2)	UG/L	< 0.5	< 0.5		
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1.0	< 1.0
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01

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F-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M19B SJ92691 03/01/95		WELL M19B SJ92697 03/01/95		WELL M19B SJ97318 06/13/95		WELL M19B SJ97319 06/13/95	
VOLATILE ORGANIC COMPOUNDS										
ACETONE	UG/L		< 10		< 10		< 10.0		< 10.0	
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5		< 0.5		< 1.0		< 1.0	
2-BUTANONE	UG/L		< 10		< 10		< 10.0		< 10.0	
4-METHYL-2-PENTANONE	UG/L		< 10		< 10		< 10.0		< 10.0	
STYRENE	UG/L		< 0.5		< 0.5		< 1.0		< 1.0	
2,4,5-TRICHLOROPHENOL	UG/L		< 2		< 2					
M+P-XYLENE	UG/L		< 0.5		< 0.5		< 1.0		< 1.0	
CARBON DISULFIDE	UG/L	CS2	< 0.5		< 0.5		< 1.0		< 1.0	
2-HEXANONE	UG/L	C6H12O	< 10		< 10		< 5.0		< 5.0	
ACID-BASE NEUTRAL EXTRACTABLE										
ACETOPHENONE	UG/L		< 4		< 4					
2-ACETYLAMINOFLUORENE	UG/L		< 3		< 3					
4-AMINOBIPHENYL	UG/L		< 5		< 5					
BENZYL ALCOHOL	UG/L		< 5		< 5					
P-CHLOROANILINE	UG/L		< 6		< 6					
CHLOROBENZILATE	UG/L		< 3		< 3					
DIALLATE	UG/L		< 4		< 4					
DIBENZOFURAN	UG/L		< 4		< 4					
2,6-DICHLOROPHENOL	UG/L		< 4	E	< 4	E				
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4		< 4					
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15		< 15					
3,3'-DIMETHYLBENZIDINE	UG/L		< 4		< 4					
M-DINITROBENZENE	UG/L		< 4		< 4					
DIPHENYLAMINE	UG/L		< 10		< 10					
ETHYL METHANESULFONATE	UG/L		< 4		< 4					
FAMPHUR	UG/L		< 50		< 50					
HEXACHLOROPROPENE	UG/L		< 20		< 20					
ISODRIN	UG/L		< 5		< 5					
ISOSAFROLE	UG/L		< 5		< 5					
KEPONE	UG/L		< 50		< 50					
METHAPYRILENE	UG/L		< 5		< 5					
3-METHYLCHOLANTHRENE	UG/L		< 13	E	< 13	E				
METHYL METHANESULFONATE	UG/L		< 11		< 11					
2-METHYLNAPHTHALENE	UG/L		< 5		< 5					
1,4-NAPHTHOQUINONE	UG/L		< 8		< 8					
1-NAPHTHYLAMINE	UG/L		< 4		< 4					
2-NAPHTHYLAMINE	UG/L		< 4		< 4					
O-NITROANILINE	UG/L		< 4		< 4					
M-NITROANILINE	UG/L		< 4		< 4					

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F-DUPLICATE SPIKE

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ92691 03/01/95		WELL M19B SJ92697 03/01/95		WELL M19B SJ97318 06/13/95		WELL M19B SJ97319 06/13/95	
ACID-BASE NEUTRAL EXTRACTABLE									
P-NITROANILINE	UG/L	<	4	<	4				
N-NITROSODI-N-BUTYLAMINE	UG/L	<	5	<	5				
N-NITROSODIETHYLAMINE	UG/L	<	5	<	5				
N-NITROSOMETHYLETHYLAMINE	UG/L	<	6	<	6				
N-NITROSOPIPERIDINE	UG/L	<	5	<	5				
N-NITROSOPYRROLIDINE	UG/L	<	5	<	5				
5-NITRO-O-TOLUIDINE	UG/L	<	5	<	5				
PENTACHLOROBENZENE	UG/L	<	4	<	4				
PENTACHLORONITROBENZENE	UG/L	<	4	<	4				
PHENACETIN	UG/L	<	4	<	4				
P-PHENYLENEDIAMINE	UG/L	<	20	<	20				
PRONAMIDE	UG/L	<	5	<	5				
SAFROLE	UG/L	<	5	<	5				
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	5	<	5				
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	5	<	5				
O-TOLUIDINE	UG/L	<	5	<	5				
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5	<	5				
SYM-TRINITROBENZENE	UG/L	<	48	<	48				
ACENAPHTHENE	UG/L	<	2	<	2				
ACENAPHTHYLENE	UG/L	<	2	<	2				
ANTHRACENE	UG/L	<	2	<	2				
BENZIDINE	UG/L	<	62	<	62				
BENZO(A)ANTHRACENE	UG/L	<	2	<	2				
BENZO(A)PYRENE	UG/L	<	0.3	<	0.3				
BENZO(B)FLUORANTHENE	UG/L	<	2	<	2				
BENZO(G,H,I,)PERYLENE	UG/L	<	1	<	1				
BENZO(K)FLUORANTHENE	UG/L	<	2	<	2				
BIS(2-CL-ETHOXY)METHANE	UG/L	<	2	<	2				
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1	<	1				
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	7	<	7				
DIETHYLHEXYL PHTHALATE	UG/L	<	1		1				
4-BROMOPHENYL PHENYLETHER	UG/L	<	2	<	2				
BUTYLBENZYL PHTHALATE	UG/L	<	2	<	2				
2-CHLORONAPHTHALENE	UG/L	<	3	<	3				
4-CHLOROPHENYLPHENYLETHER	UG/L	<	2	<	2				
CHRYSENE	UG/L	<	1	<	1				
DIBENZO(A,H)ANTHRACENE	UG/L	<	1	<	1				
3,3'-DICHLOROBENZIDINE	UG/L	<	14 E	<	14				
DIETHYL PHTHALATE	UG/L	<	2 E	<	2				
DIMETHYL PHTHALATE	UG/L	<	2 E	<	2				
DI-N-BUTYL PHTHALATE	UG/L	<	1	<	1				

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M19B SJ92691 03/01/95		WELL M19B SJ92697 03/01/95		WELL M19B SJ97318 06/13/95		WELL M19B SJ97319 06/13/95	
ACID-BASE NEUTRAL EXTRACTABLE									
2,4-DINITROTOLUENE	UG/L	< 2		< 2					
2,6-DINITROTOLUENE	UG/L	< 2		< 2					
DI-N-OCTYL PHTHALATE	UG/L	< 2		< 2					
FLUORANTHENE	UG/L	< 2		< 2					
FLUORENE	UG/L	< 2		< 2					
HEXACHLOROBENZENE	UG/L	< 1		< 1					
HEXACHLOROBUTADIENE	UG/L	< 4		< 4					
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30		< 30					
HEXACHLOROETHANE	UG/L	< 4		< 4					
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2		< 2					
ISOPHORONE	UG/L	< 1		< 1					
NAPHTHALENE	UG/L	< 3		< 3					
NITROBENZENE	UG/L	< 2		< 2					
N-NITROSODIMETHYLAMINE	UG/L	< 1		< 1					
N-NITROSODI-N-PROPYLAMINE	UG/L	< 3		< 3					
PHENANTHRENE	UG/L	< 2		< 2					
PYRENE	UG/L	< 1		< 1					
2-CHLOROPHENOL	UG/L	< 2	E	< 2	E				
1,2,4-TRICHLOROBENZENE	UG/L	< 4		< 4					
2,4-DICHLOROPHENOL	UG/L	< 2		< 2					
2,4-DIMETHYLPHENOL	UG/L	< 2		< 2					
2,4-DINITROPHENOL	UG/L	< 19		< 19					
2-METHYL-4,6DINITROPHENOL	UG/L	< 2		< 2					
2-NITROPHENOL	UG/L	< 3		< 3					
4-NITROPHENOL	UG/L	< 18		< 18					
4-CHLORO-3-METHYLPHENOL	UG/L	< 2		< 2					
PENTACHLOROPHENOL	UG/L	< 0.2		< 0.2					
PHENOL	UG/L	< 2		< 2					
2,4,6-TRICHLOROPHENOL	UG/L	< 2		< 2					
N-NITROSODIPHENYLAMINE	UG/L	< 2		< 2					
O-CRESOL	UG/L	< 4		< 4					
M+P CRESOL	UG/L	< 3		< 3					

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F-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M19B SJ92690 03/01/95	WEFI M19B SJ92696 03/01/95	WEFI M19B SJ97316 06/13/95	WEFI M19B SJ97317 06/13/95
CATIONS					
IRON	MG/L FE	0.34	0.39		
MANGANESE	MG/L MN	0.10	0.10		
METALS					
ARSENIC	MG/L AS	<0.001	<0.001		
BARIUM	MG/L BA	0.02	0.02		
CADMIUM	MG/L CD	<0.003	<0.003		
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01		
COBALT	MG/L CO	< 0.01	< 0.01		
COPPER	MG/L CU	< 0.01	< 0.01		
LEAD	MG/L PB	< 0.02	< 0.02		
MERCURY	MG/L HG	<.0001	<.0001		
NICKEL	MG/L NI	< 0.02	< 0.02		
SELENIUM	MG/L SE	<0.001	<0.001		
SILVER	MG/L AG	< 0.01	< 0.01		
ZINC	MG/L ZN	< 0.01	< 0.01		
ANTIMONY	MG/L SB	0.001	<0.001		
BERYLLIUM	MG/L BE	<.0005	<.0005		
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ93505 03/17/95		WELL M23A SJ97728 06/21/95	
FIELD PARAMETERS					
DEPTH TO WATER	FT	35.16		34.44	
DEPTH TO BOTTOM	FT	43.62			
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	19		18	
FIELD WATER TEMPERATURE	DEG C	18.88		19.24	
FIELD PH	PH	6.42		6.57	
FIELD CONDUCTIVITY	UMHOS/CM	3565		3350	
FIELD DISSOLVED O2	MG/L	1.01		0.43	
DISSOLVED CO2	MG/L	262			
GENERAL					
PH	PH	7.12		7.06	
CONDUCTIVITY	UMHOS/CM	3550			
TOTAL DISSOLVED SOLIDS	MG/L	3070		2991	
TOTAL HARDNESS	MG/L CACO3	1833			
TOTAL CYANIDE	MG/L CN	<0.002			
BORON	MG/L B	0.80			
ANIONS					
NITRATE NITROGEN	MG/L N	0.19	A	0.05	A
SULFATE	MG/L SO4	1710	A	1660	A
CHLORIDE	MG/L CL	140	A	140	A
TOTAL ALKALINITY	MG/L CACO3	393			
BICARBONATE ALKALINITY	MG/L CACO3	393			
TOTAL SULFIDE	MG/L S	< 0.1			
FLUORIDE	MG/L F	1.22			
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	1010			
MAGNESIUM-HARDNESS	MG/L CACO3	823			
SODIUM	MG/L NA	255			
POTASSIUM	MG/L K	4.4			
IRON	MG/L FE	3.10	C		
MANGANESE	MG/L MN	0.41			
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.2			

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ93505 03/17/95	WELL M23A SJ97728 06/21/95
ORGANIC MATTER			
TOTAL BOD	MG/L O	< 0.7	
SOLUBLE BOD	MG/L O	< 0.7	
TOTAL COD	MG/L O	7	
SOLUBLE COD	MG/L O	7	
TOTAL ORGANIC CARBON	MG/L C	1.6	
OIL & GREASE	MG/L EXTRAC	0.9	
TOTAL ORGANIC HALOGEN(TOX	UG/L	3.7	
METALS			
ARSENIC	MG/L AS	0.002	
BARIUM	MG/L BA	0.01	
CADMIUM	MG/L CD	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	
COBALT	MG/L CO	< 0.01	
COPPER	MG/L CU	< 0.01	
LEAD	MG/L PB	< 0.02	
MERCURY	MG/L HG	<.0001	
NICKEL	MG/L NI	< 0.02	
SELENIUM	MG/L SE	<0.001	
SILVER	MG/L AG	< 0.01	
ZINC	MG/L ZN	< 0.01	
ANTIMONY	MG/L SB	<0.001	
BERYLLIUM	MG/L BE	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
2,4,5-T	UG/L	< 0.05	
DINOSEB	UG/L	< 0.1	
THIONAZIN	UG/L	< 1	
DIMETHOATE	UG/L	< 1	
DISULFOTON	UG/L	< 1	
METHYL PARATHION	UG/L	< 1	
ETHYL PARATHION	UG/L	< 1	
PHORATE	UG/L	< 1	
PP'-DDE	UG/L	< 0.01	
PP'-DDD	UG/L	< 0.01	
PP'-DDT	UG/L	< 0.01	

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ93505 03/17/95	WELL M23A SJ97728 06/21/95								
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
ALPHA-BHC	UG/L	< 0.01									
LINDANE (GAMMA-BHC)	UG/L	< 0.01									
HEPTACHLOR	UG/L	< 0.01									
HEPTACHLOR EPOXIDE	UG/L	< 0.01									
ALDRIN	UG/L	< 0.01									
DIELDRIN	UG/L	< 0.01									
ENDRIN	UG/L	< 0.01									
TOXAPHENE	UG/L	< 0.5									
METHOXYCLOR	UG/L	< 0.01									
2,4-D(ACID)	UG/L	< 0.5									
2,4,5-TP(SILVEX)	UG/L	< 0.05									
AROCLOR 1242	UG/L	< 0.1									
AROCLOR 1254	UG/L	< 0.05									
BETA-BHC	UG/L	< 0.01									
DELTA-BHC	UG/L	< 0.01									
ENDOSULFAN I	UG/L	< 0.01									
ENDOSULFAN II	UG/L	< 0.01									
ENDOSULFAN SULFATE	UG/L	< 0.1									
ENDRIN ALDEHYDE	UG/L	< 0.01									
AROCLOR 1016	UG/L	< 0.1									
AROCLOR 1221	UG/L	< 0.1									
AROCLOR 1232	UG/L	< 0.1									
AROCLOR 1248	UG/L	< 0.1									
AROCLOR 1260	UG/L	< 0.1									
TECHNICAL CHLORDANE	UG/L	< 0.05 B									
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L	< 100									
BROMOCHLOROMETHANE	UG/L	< 0.5		< 1							
CHLOROPRENE	UG/L	< 1000									
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01		< 0.01							
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2		< 1							
1,3-DICHLOROPROPANE	UG/L	< 0.5									
2,2-DICHLOROPROPANE	UG/L	< 0.5									
1,1-DICHLOROPROPENE	UG/L	< 0.5									
ISOBUTYL ALCOHOL	UG/L	< 100									
METHACRYLONITRILE	UG/L	< 10									
METHYL IODIDE	UG/L	< 0.5		< 1							
METHYLENE BROMIDE	UG/L	< 0.5		< 1							
PROPIONITRILE	UG/L	< 20									

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M23A SJ93505 03/17/95	WELL M23A SJ97728 06/21/95
VOLATILE ORGANIC COMPOUNDS			
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 1
METHYL METHACRYLATE	UG/L	< 10	
ETHYL METHACRYLATE	UG/L	< 10	
METHYLENE CHLORIDE	UG/L	< 3	< 1
CHLOROFORM	UG/L	< 0.5	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 1
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.3
1,1-DICHLOROETHENE	UG/L	< 0.5	< 1
TRICHLOROETHYLENE	UG/L	< 0.5	< 1
TETRACHLOROETHYLENE	UG/L	< 0.5	< 1
BROMODICHLOROMETHANE	UG/L	< 0.5	< 1
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 1
BROMOFORM	UG/L	< 0.5	< 1
CHLOROBENZENE	UG/L	< 0.5	< 1
VINYL CHLORIDE	UG/L	< 0.5	< 0.3
O-DICHLOROBENZENE	UG/L	< 0.5	< 1
M-DICHLOROBENZENE	UG/L	< 0.5	
P-DICHLOROBENZENE	UG/L	< 0.5	< 1
1,1-DICHLOROETHANE	UG/L	< 0.5	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.3
BENZENE	UG/L	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 1
ETHYL BENZENE	UG/L	< 0.5	< 1
VINYL ACETATE	UG/L	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 1
BROMOMETHANE	UG/L	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1	
CHLOROMETHANE	UG/L	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5
ACROLEIN	UG/L	< 200	
ACRYLONITRILE	UG/L	< 50	< 10
ACETONITRILE	UG/L	< 100	
FREON 12 (CCL2F2)	UG/L	< 0.5	
FREON 11 (CCL3F)	UG/L	< 1	< 1

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M23A SJ93505 03/17/95		WELL M23A SJ97728 06/21/95	
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L		< 0.01		< 0.01	
ACETONE	UG/L		< 10		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5		< 1	
2-BUTANONE	UG/L		< 10		< 10	
4-METHYL-2-PENTANONE	UG/L		< 10		< 10	
STYRENE	UG/L		< 0.5		< 1	
2,4,5-TRICHLOROPHENOL	UG/L		< 2			
M+P-XYLENE	UG/L		< 0.5		< 1	
CARBON DISULFIDE	UG/L	CS2	< 0.5		< 1	
2-HEXANONE	UG/L	C6H12O	< 10		< 5	
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L		< 4			
2-ACETYLAMINOFLUORENE	UG/L		< 3			
4-AMINOBIPHENYL	UG/L		< 5			
BENZYL ALCOHOL	UG/L		< 5			
P-CHLOROANILINE	UG/L		< 6			
CHLOROBENZILATE	UG/L		< 3			
DIALLATE	UG/L		< 4			
DIBENZOFURAN	UG/L		< 4			
2,6-DICHLOROPHENOL	UG/L		< 4	D		
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4			
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15			
3,3'-DIMETHYLBENZIDINE	UG/L		< 4			
M-DINITROBENZENE	UG/L		< 4			
DIPHENYLAMINE	UG/L		< 10			
ETHYL METHANESULFONATE	UG/L		< 4			
FAMPHUR	UG/L		< 50			
HEXACHLOROPROPENE	UG/L		< 20			
ISODRIN	UG/L		< 5			
ISOSAFROLE	UG/L		< 5			
KEPONE	UG/L		< 50			
METHAPYRILENE	UG/L		< 5			
3-METHYLCHOLANTHRENE	UG/L		< 13	D		
METHYL METHANESULFONATE	UG/L		< 11			
2-METHYLNAPHTHALENE	UG/L		< 5			
1,4-NAPHTHOQUINONE	UG/L		< 8			
1-NAPHTHYLAMINE	UG/L		< 4			
2-NAPHTHYLAMINE	UG/L		< 4			
O-NITROANILINE	UG/L		< 4			

FOOTNOTES : A-AVERAGE B-ND = NONE DETECTED C-AVERAGE OF DUPS D-AMENDED TEST RESULT

TABLE A.5

WATER QUALITY DATA - BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M23A SJ93502 03/17/95	WEFI M23A SJ97725 06/21/95
CATIONS			
IRON	MG/L FE	4.47 A	
MANGANESE	MG/L MN	0.40	
METALS			
ARSENIC	MG/L AS	0.003	
BARIUM	MG/L BA	0.01	
CADMIUM	MG/L CD	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	
COBALT	MG/L CO	< 0.01	
COPPER	MG/L CU	< 0.01	
LEAD	MG/L PB	< 0.02	
MERCURY	MG/L HG	<.0001	
NICKEL	MG/L NI	< 0.02	
SELENIUM	MG/L SE	<0.001	
SILVER	MG/L AG	< 0.01	
ZINC	MG/L ZN	< 0.01	
ANTIMONY	MG/L SB	<0.001	
BERYLLIUM	MG/L BE	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05

FOOTNOTES : A-AVERAGE OF DUPS

TABLE A.6

WATER QUALITY DATA

OFFSITE MONITORING WELLS

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ97626 06/19/95		WELL M16A SJ01561 09/18/95		WELL M16A SJ01562 09/18/95		WELL M16A SJ05175 12/12/95	
FIELD PARAMETERS									
DEPTH TO WATER	FT	37.03		41.36				40.28	
DEPTH TO BOTTOM	FT							85.84	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1				< 0.1	
PERCENT OXYGEN IN GAS	%O2	20		8				6	
FIELD WATER TEMPERATURE	DEG C	22.03		27.18				21.31	
FIELD PH	PH	6.58		6.69				6.64	
FIELD CONDUCTIVITY	UMHOS/CM	1503		1667				1688	
FIELD DISSOLVED O2	MG/L	3.90		2.29				1.7	
DISSOLVED CO2	MG/L	182		335				218	
GENERAL									
PH	PH	7.14		7.30		7.18		7.49	
CONDUCTIVITY	UMHOS/CM	1445		1490	D	1550		1650	D
TOTAL DISSOLVED SOLIDS	MG/L	976		1187		1183		1148	
TOTAL HARDNESS	MG/L CACO3	688	B	847	B	851	B	777	B
TOTAL CYANIDE	MG/L CN	<0.002		<0.002		<0.002		<0.002	
BORON	MG/L B	0.67		0.60		0.55		0.42	
ANIONS									
NITRATE NITROGEN	MG/L N	19.9	A	30.7	A	31.1	F	31.0	A
SULFATE	MG/L SO4	175	A	209	A	212	F	202	A
CHLORIDE	MG/L CL	82.7	A	59.3	A	59.3	F	57.2	A
TOTAL ALKALINITY	MG/L CACO3	395		936		523	D	541	
BICARBONATE ALKALINITY	MG/L CACO3	395		936		523		541	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1		< 0.1	
FLUORIDE	MG/L F	0.21		0.30		0.31		0.26	
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	489	A	594	A	599		547	A
MAGNESIUM-HARDNESS	MG/L CACO3	199	A	253	A	252		230	A
SODIUM	MG/L NA	67.5	A	70.7	A	71.5		65.7	A
POTASSIUM	MG/L K	4.2	A	4.6	A	4.6		4.6	A
IRON	MG/L FE	0.95	A	0.32	A	0.19		1.43	A
MANGANESE	MG/L MN	0.02	A	0.01	A	0.007		0.04	A
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1		< 0.1		0.1	

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ97626 06/19/95	WELL M16A SJ01561 09/18/95	WELL M16A SJ01562 09/18/95	WELL M16A SJ05175 12/12/95
ORGANIC MATTER					
TOTAL BOD	MG/L O	1	< 0.7 D	< 0.7	1
SOLUBLE BOD	MG/L O	1 C	< 0.7	< 0.7	< 0.7
TOTAL COD	MG/L O	< 2 D	4 D	2 D	8
SOLUBLE COD	MG/L O	< 2	2 D	2	8
TOTAL ORGANIC CARBON	MG/L C	1.4	0.63	0.63	1.0 A
OIL & GREASE	MG/L EXTRAC	0.9	< 0.9	< 0.9 A	< 0.9
TOTAL ORGANIC HALOGEN(TOX	UG/L	5.8	10	14	11
METALS					
ARSENIC	MG/L AS	.0032	.0031	.0029	.0041
BARIUM	MG/L BA	0.07 A	0.09 A	0.08	0.08 A
CADMIUM	MG/L CD	<0.003 A	<0.003 A	<0.003	<0.003 A
TOTAL CHROMIUM	MG/L CR	< 0.01 A	< 0.01 A	< 0.01	0.01 A
COBALT	MG/L CO	< 0.01 A	< 0.01 A	< 0.01	< 0.01 A
COPPER	MG/L CU	< 0.01 A	< 0.01 A	< 0.01	< 0.01 A
LEAD	MG/L PB	< 0.02 A	< 0.02 A	< 0.02	< 0.02 A
MERCURY	MG/L HG	<.0001	.0001	.0001	.0001
NICKEL	MG/L NI	< 0.02 A	< 0.02 A	< 0.02	< 0.02 A
SELENIUM	MG/L SE	.0153	.0202	.0204	.0225
SILVER	MG/L AG	< 0.01 A	< 0.01 A	< 0.01	< 0.01 A
ZINC	MG/L ZN	< 0.01 A	0.01 A	< 0.01	0.02 A
ANTIMONY	MG/L SB	<.0010	<.0005	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0005 A	<.0005	<.0005 A	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 A	<0.002
TIN	MG/L SN	< 0.06 A	< 0.06 A	< 0.06	< 0.06 A
VANADIUM	MG/L V	< 0.05 A	< 0.05 A	< 0.05	< 0.05 A
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	< 0.05 E			
DINOSEB	UG/L	< 0.1 E			
THIONAZIN	UG/L	< 1			
DIMETHOATE	UG/L	< 1			
DISULFOTON	UG/L	< 1			
METHYL PARATHION	UG/L	< 1			
ETHYL PARATHION	UG/L	< 1			
PHORATE	UG/L	< 1			
PP'-DDE	UG/L	< 0.01			
PP'-DDD	UG/L	< 0.01			
PP'-DDT	UG/L	< 0.01			

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ97626 06/19/95		WELL M16A SJ01561 09/18/95		WELL M16A SJ01562 09/18/95		WELL M16A SJ05175 12/12/95	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
ALPHA-BHC	UG/L	< 0.01							
LINDANE (GAMMA-BHC)	UG/L	< 0.01							
HEPTACHLOR	UG/L	< 0.01							
HEPTACHLOR EPOXIDE	UG/L	< 0.01							
ALDRIN	UG/L	< 0.01							
DIELDRIN	UG/L	< 0.01							
ENDRIN	UG/L	< 0.01							
TOXAPHENE	UG/L	< 0.5							
METHOXYCLOR	UG/L	< 0.01							
2,4-D(ACID)	UG/L	< 0.5	E						
2,4,5-TP(SILVEX)	UG/L	< 0.05	E						
AROCLOR 1242	UG/L	< 0.1							
AROCLOR 1254	UG/L	< 0.05							
BETA-BHC	UG/L	< 0.01							
DELTA-BHC	UG/L	< 0.01							
ENDOSULFAN I	UG/L	< 0.01							
ENDOSULFAN II	UG/L	< 0.01							
ENDOSULFAN SULFATE	UG/L	< 0.1							
ENDRIN ALDEHYDE	UG/L	< 0.01							
AROCLOR 1016	UG/L	< 0.1							
AROCLOR 1221	UG/L	< 0.1							
AROCLOR 1232	UG/L	< 0.1							
AROCLOR 1248	UG/L	< 0.1							
AROCLOR 1260	UG/L	< 0.1							
TECHNICAL CHLORDANE	UG/L	< 0.05							
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L	< 1							
BROMOCHLOROMETHANE	UG/L	< 1		< 1		< 1		< 1	
CHLOROPRENE	UG/L	< 1							
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01		< 0.01		< 0.01		< 0.01	
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1		< 1		< 1		< 1	
1,3-DICHLOROPROPANE	UG/L	< 0.3							
2,2-DICHLOROPROPANE	UG/L	< 1							
1,1-DICHLOROPROPENE	UG/L	< 1							
ISOBUTYL ALCOHOL	UG/L	< 10							
METHACRYLONITRILE	UG/L	< 10							
METHYL IODIDE	UG/L	< 1		< 1		< 1		< 1	
METHYLENE BROMIDE	UG/L	< 1		< 1		< 1		< 1	
PROPIONITRILE	UG/L	< 10							

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ97626 06/19/95	WELL M16A SJ01561 09/18/95	WELL M16A SJ01562 09/18/95	WELL M16A SJ05175 12/12/95
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 10			
ETHYL METHACRYLATE	UG/L	< 5			
METHYLENE CHLORIDE	UG/L	< 1	< 1	2	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	2	3	2
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	4	5	6
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 1			
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L	< 1			
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L	< 10			
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L	< 20			
FREON 12 (CCL2F2)	UG/L	< 1			
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M16A SJ97626 06/19/95	WELL M16A SJ01561 09/18/95	WELL M16A SJ01562 09/18/95	WELL M16A SJ05175 12/12/95
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L		< 2			
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L		< 4			
2-ACETYLAMINOFLUORENE	UG/L		< 3			
4-AMINOBIPHENYL	UG/L		< 5			
BENZYL ALCOHOL	UG/L		< 5			
P-CHLOROANILINE	UG/L		< 6			
CHLOROBENZILATE	UG/L		< 3			
DIALLATE	UG/L		< 4			
DIBENZOFURAN	UG/L		< 4			
2,6-DICHLOROPHENOL	UG/L		< 4			
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4			
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15			
3,3'-DIMETHYLBENZIDINE	UG/L		< 4			
M-DINITROBENZENE	UG/L		< 4			
DIPHENYLAMINE	UG/L		< 10			
ETHYL METHANESULFONATE	UG/L		< 4			
FAMPHUR	UG/L		< 50			
HEXACHLOROPROPENE	UG/L		< 20			
ISODRIN	UG/L		< 5			
ISOSAFROLE	UG/L		< 5			
KEPONE	UG/L		< 50			
METHAPYRILENE	UG/L		< 5			
3-METHYLCHOLANTHRENE	UG/L		< 13			
METHYL METHANESULFONATE	UG/L		< 11			
2-METHYLNAPHTHALENE	UG/L		< 5			
1,4-NAPHTHOQUINONE	UG/L		< 8			
1-NAPHTHYLAMINE	UG/L		< 4			
2-NAPHTHYLAMINE	UG/L		< 4			
O-NITROANILINE	UG/L		< 4			

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ97626 06/19/95	WELL M16A SJ01561 09/18/95	WELL M16A SJ01562 09/18/95	WELL M16A SJ05175 12/12/95
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	< 4			
P-NITROANILINE	UG/L	< 4			
N-NITROSODI-N-BUTYLAMINE	UG/L	< 5			
N-NITROSODIETHYLAMINE	UG/L	< 5			
N-NITROSOMETHYLETHYLAMINE	UG/L	< 6			
N-NITROSOPIPERIDINE	UG/L	< 5			
N-NITROSOPYRROLIDINE	UG/L	< 5			
5-NITRO-O-TOLUIDINE	UG/L	< 5			
PENTACHLOROBENZENE	UG/L	< 4			
PENTACHLORONITROBENZENE	UG/L	< 4			
PHENACETIN	UG/L	< 4			
P-PHENYLENEDIAMINE	UG/L	< 20			
PRONAMIDE	UG/L	< 5			
SAFROLE	UG/L	< 5			
1,2,4,5-TETRACHLOROBENZEN	UG/L	< 5			
2,3,4,6-TETRACHLOROPHENOL	UG/L	< 5			
O-TOLUIDINE	UG/L	< 5			
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	< 5			
SYM-TRINITROBENZENE	UG/L	< 48			
ACENAPHTHENE	UG/L	< 2			
ACENAPHTHYLENE	UG/L	< 2			
ANTHRACENE	UG/L	< 2			
BENZIDINE	UG/L	< 62			
BENZO(A)ANTHRACENE	UG/L	< 2			
BENZO(A)PYRENE	UG/L	< 0.3			
BENZO(B)FLUORANTHENE	UG/L	< 2			
BENZO(G.H.I.)PERYLENE	UG/L	< 1			
BENZO(K)FLUORANTHENE	UG/L	< 2			
BIS(2-CL-ETHOXY)METHANE	UG/L	< 2			
BIS(2-CHLOROETHYL)ETHER	UG/L	< 1			
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 7			
DIETHYLHEXYL PHTHALATE	UG/L	< 1			
4-BROMOPHENYL PHENYLETHER	UG/L	< 2			
BUTYLBENZYL PHTHALATE	UG/L	< 2			
2-CHLORONAPHTHALENE	UG/L	< 3			
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2			
CHRYSENE	UG/L	< 1			
DIBENZO(A,H)ANTHRACENE	UG/L	< 1			
3,3'-DICHLOROBENZIDINE	UG/L	< 14			
DIETHYL PHTHALATE	UG/L	< 2			
DIMETHYL PHTHALATE	UG/L	< 2			

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ97626 06/19/95		WELL M16A SJ01561 09/18/95		WELL M16A SJ01562 09/18/95		WELL M16A SJ05175 12/12/95	
ACID-BASE NEUTRAL EXTRACTABLE									
DI-N-BUTYL PHTHALATE	UG/L	<	1						
2,4-DINITROTOLUENE	UG/L	<	2						
2,6-DINITROTOLUENE	UG/L	<	2						
DI-N-OCTYL PHTHALATE	UG/L	<	2						
FLUORANTHENE	UG/L	<	2						
FLUORENE	UG/L	<	2						
HEXACHLOROBENZENE	UG/L	<	1						
HEXACHLOROBUTADIENE	UG/L	<	4						
HEXACHLOROCYCLOPENTADIENE	UG/L	<	30						
HEXACHLOROETHANE	UG/L	<	4						
INDENO(1,2,3-C,D)PYRENE	UG/L	<	2						
ISOPHORONE	UG/L	<	1						
NAPHTHALENE	UG/L	<	3						
NITROBENZENE	UG/L	<	2						
N-NITROSODIMETHYLAMINE	UG/L	<	1						
N-NITROSODI-N-PROPYLAMINE	UG/L	<	3						
PHENANTHRENE	UG/L	<	2						
PYRENE	UG/L	<	1						
2-CHLOROPHENOL	UG/L	<	2						
1,2,4-TRICHLOROBENZENE	UG/L	<	4						
2,4-DICHLOROPHENOL	UG/L	<	2						
2,4-DIMETHYLPHENOL	UG/L	<	2						
2,4-DINITROPHENOL	UG/L	<	19						
2-METHYL-4,6DINITROPHENOL	UG/L	<	2						
2-NITROPHENOL	UG/L	<	3						
4-NITROPHENOL	UG/L	<	18						
4-CHLORO-3-METHYLPHENOL	UG/L	<	2						
PENTACHLOROPHENOL	UG/L	<	0.1						
PHENOL	UG/L	<	2						
2,4,6-TRICHLOROPHENOL	UG/L	<	2						
N-NITROSODIPHENYLAMINE	UG/L	<	2						
O-CRESOL	UG/L	<	4						
M+P CRESOL	UG/L	<	3						

FOOTNOTES : A-DUPLICATE SPIKE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE

TABLE A.6

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M16A SJ97625 06/19/95	WEFI M16A SJ01563 09/18/95	WEFI M16A SJ01564 09/18/95	WEFI M16A SJ05173 12/12/95
CATIONS					
IRON	MG/L FE	< 0.02	< 0.02	< 0.02	< 0.02
MANGANESE	MG/L MN	<0.003	<0.003	<0.003	<0.003
METALS					
ARSENIC	MG/L AS	.0028	.0028	.0029	.0030
BARIUM	MG/L BA	0.06	0.08	0.08	0.08
CADMIUM	MG/L CD	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	.0001	.0001	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L SE	.0159	.0209	.0205	.0223
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01	< 0.01	< 0.01	0.01
ANTIMONY	MG/L SB	<.0010	<.0005	<.0005	.0005
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05

TABLE A.7

WATER QUALITY DATA

LIQUID COLLECTION AND REMOVAL SYSTEMS

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ94174 04/03/95		CNYN 9 LCRS SJ94175 04/03/95		CNYN 9 LCRS(F) SJ02243 10/03/95		CNYN 9 LCRS SJ02245 10/03/95		CNYN 9 LCRS SJ04334 11/20/95	
GENERAL											
PH	PH			7.99				7.69	A		
CONDUCTIVITY	UMHOS/CM			8310				6360			
TOTAL DISSOLVED SOLIDS	MG/L			8570				5380	B		
TOTAL HARDNESS	MG/L CACO3			4680	C			2510	C		
TOTAL CYANIDE	MG/L CN			<0.002				<0.002			
BORON	MG/L B			3.10				3.03			
ANIONS											
NITRATE NITROGEN	MG/L N			4.22	B			0.19	B		
SULFATE	MG/L SO4			5050	B			2210	B		
CHLORIDE	MG/L CL			404	B			744	B		
TOTAL ALKALINITY	MG/L CACO3			641				441	G		
BICARBONATE ALKALINITY	MG/L CACO3			641				441			
TOTAL SULFIDE	MG/L S			< 0.1				< 0.1	A		
FLUORIDE	MG/L F			1.07				0.68			
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3			1150	D			1140	D		
MAGNESIUM-HARDNESS	MG/L CACO3			3530	D			1370	D		
SODIUM	MG/L NA			806	D			761	D		
POTASSIUM	MG/L K			23.5	D			18.3	D		
IRON	MG/L FE	0.03		0.25	D	0.07		5.09	D		
MANGANESE	MG/L MN	1.32	A	1.38	F	3.98		4.70	D		
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N			< 0.2				2.6			
TOTAL BOD	MG/L O			5				17			
SOLUBLE BOD	MG/L O			1	A			2			
TOTAL COD	MG/L O			129				88			
SOLUBLE COD	MG/L O			128				84			
TOTAL ORGANIC CARBON	MG/L C			48	D			32			
OIL & GREASE	MG/L EXTRAC			< 0.9				0.9	D		
TOTAL ORGANIC HALOGEN(TOX	UG/L			160	E			310	D		
METALS											
ARSENIC	MG/L AS	0.006		0.010		.0085		.0424			
BARIUM	MG/L BA	0.03	A	0.03	F	0.06		0.07	D		

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-INTERFERENCE G-DUP & SPIKE H-CONSTIT NOT ANALYZE I-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ94174 04/03/95	CNYN 9 LCRS SJ94175 04/03/95	CNYN 9 LCRS(F) SJ02243 10/03/95	CNYN 9 LCRS SJ02245 10/03/95	CNYN 9 LCRS SJ04334 11/20/95
METALS						
CADMIUM	MG/L CD	<0.003	<0.003 D	<0.003	<0.003 D	
TOTAL CHROMIUM	MG/L CR	< 0.01 A	< 0.01 F	< 0.01	< 0.01 D	
COBALT	MG/L CO	< 0.01	< 0.01 D	< 0.01	< 0.01 D	
COPPER	MG/L CU	0.05 A	0.05 D	< 0.01	0.02 D	
LEAD	MG/L PB	< 0.02	< 0.02 D	< 0.02	< 0.02 D	
MERCURY	MG/L HG	.0005	<.0001	<.0001	<.0001	
NICKEL	MG/L NI	< 0.02	0.02 D	< 0.02	< 0.02 D	
SELENIUM	MG/L SE	0.001	0.001	<.0010	<.0010	
SILVER	MG/L AG	< 0.01	< 0.01 D	< 0.01	< 0.01 D	
ZINC	MG/L ZN	0.01 A	0.02 F	< 0.01	< 0.01 D	
ANTIMONY	MG/L SB	0.001	<0.001	<.0005	<.0005	
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005 D	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 D	<0.002	
TIN	MG/L SN	< 0.06	< 0.06 D	< 0.06	< 0.06 D	
VANADIUM	MG/L V	< 0.05	< 0.05 D	< 0.05	< 0.05 D	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L		< 0.5		< 0.5	< 0.2 I
DINOSEB	UG/L		< 1		H	< 0.4 I
THIONAZIN	UG/L		< 1		< 1	< 1
DIMETHOATE	UG/L		< 1		H	< 1
DISULFOTON	UG/L		< 1		H	< 1
METHYL PARATHION	UG/L		< 1		< 1	< 1
ETHYL PARATHION	UG/L		< 1		< 1	< 1
PHORATE	UG/L		< 1		H	< 1
PP'-DDE	UG/L		< 0.01		< 0.01	
PP'-DDD	UG/L		< 0.01		< 0.01	
PP'-DDT	UG/L		< 0.01		< 0.01	
ALPHA-BHC	UG/L		< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L		< 0.01		< 0.01	
HEPTACHLOR	UG/L		< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L		< 0.01		< 0.01	
ALDRIN	UG/L		< 0.01		< 0.01	
DIELDRIN	UG/L		< 0.01		< 0.01	
ENDRIN	UG/L		< 0.01		< 0.01	
TOXAPHENE	UG/L		< 0.5		< 0.5	
METHOXYCLOR	UG/L		< 0.01		< 0.01	
2,4-D(ACID)	UG/L		< 5		< 5	< 0.5 I
2,4,5-TP(SILVEX)	UG/L		< 0.5		< 0.5	< 0.05 I
AROCLOR 1242	UG/L		< 0.1		< 0.1	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-INTERFERENCE G-DUP & SPIKE H-CONSTIT NOT ANALYZE I-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ94174 04/03/95	CNYN 9 LCRS SJ94175 04/03/95	CNYN 9 LCRS(F) SJ02243 10/03/95	CNYN 9 LCRS SJ02245 10/03/95	CNYN 9 LCRS SJ04334 11/20/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
AROCLOR 1254	UG/L		< 0.05		< 0.05	
BETA-BHC	UG/L		< 0.01		< 0.01	
DELTA-BHC	UG/L		< 0.01		< 0.01	
ENDOSULFAN I	UG/L		< 0.01		< 0.01	
ENDOSULFAN II	UG/L		< 0.01		< 0.01	
ENDOSULFAN SULFATE	UG/L		< 0.1		< 0.1	
ENDRIN ALDEHYDE	UG/L		< 0.01		< 0.01	
AROCLOR 1016	UG/L		< 0.1		< 0.1	
AROCLOR 1221	UG/L		< 0.1		< 0.1	
AROCLOR 1232	UG/L		< 0.1		< 0.1	
AROCLOR 1248	UG/L		< 0.1		< 0.1	
AROCLOR 1260	UG/L		< 0.1		< 0.1	
TECHNICAL CHLORDANE	UG/L		< 0.05		< 0.05	
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L		< 100		< 1	
BROMOCHLOROMETHANE	UG/L		< 0.5		< 1	
CHLOROPRENE	UG/L		< 1000			H
1,2-DIBROMO-3-CHLOROPROPA	UG/L		< 0.01		< 0.01	
T-1,4-DICHLORO-2-BUTENE	UG/L		< 2		< 1	
1,3-DICHLOROPROPANE	UG/L		< 0.5		< 0.3	
2,2-DICHLOROPROPANE	UG/L		< 0.5		< 1	
1,1-DICHLOROPROPENE	UG/L		< 0.5		< 1	
ISOBUTYL ALCOHOL	UG/L		< 100		< 10	
METHACRYLONITRILE	UG/L		< 10		< 10	
METHYL IODIDE	UG/L		< 0.5		< 1	
METHYLENE BROMIDE	UG/L		< 0.5		< 1	
PROPIONITRILE	UG/L		< 20		< 10	
1,1,1,2-TETRACHLOROETHANE	UG/L		< 0.5		< 1	
1,2,3-TRICHLOROPROPANE	UG/L		< 0.5		< 1	
METHYL METHACRYLATE	UG/L		< 10		< 10	
ETHYL METHACRYLATE	UG/L		< 10		< 5	
METHYLENE CHLORIDE	UG/L		< 3		< 1	
CHLOROFORM	UG/L		< 0.5		< 1	
1,1,1-TRICHLOROETHANE	UG/L		< 0.5		< 1	
CARBON TETRACHLORIDE	UG/L		< 0.5		< 0.3	
1,1-DICHLOROETHENE	UG/L		< 0.5		< 1	
TRICHLOROETHYLENE	UG/L		< 0.5		< 1	
TETRACHLOROETHYLENE	UG/L		< 0.5		< 1	
BROMODICHLOROMETHANE	UG/L		< 0.5		< 1	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-INTERFERENCE G-DUP & SPIKE H-CONSTIT NOT ANALYZE I-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		CNYN 9 LCRS(F) SJ94174 04/03/95	CNYN 9 LCRS SJ94175 04/03/95	CNYN 9 LCRS(F) SJ02243 10/03/95	CNYN 9 LCRS SJ02245 10/03/95	CNYN 9 LCRS SJ04334 11/20/95
VOLATILE ORGANIC COMPOUNDS							
DIBROMOCHLOROMETHANE	UG/L			< 0.5		< 1	
BROMOFORM	UG/L			< 0.5		< 1	
CHLOROBENZENE	UG/L			< 0.5		< 1	
VINYL CHLORIDE	UG/L			< 0.5		< 0.3	
O-DICHLOROBENZENE	UG/L			< 0.5		< 1	
M-DICHLOROBENZENE	UG/L			< 0.5		< 1	
P-DICHLOROBENZENE	UG/L			< 0.5		2	
1,1-DICHLOROETHANE	UG/L			< 0.5		< 1	
1,1,2-TRICHLOROETHANE	UG/L			< 0.5		< 1	
1,2-DICHLOROETHANE	UG/L			< 0.5		< 0.3	
BENZENE	UG/L			< 0.5		< 0.5	
TOLUENE	UG/L			< 0.5		< 1	
ETHYL BENZENE	UG/L			< 0.5		< 1	
VINYL ACETATE	UG/L			< 10		< 10	
O-XYLENE	UG/L			< 0.5		< 1	
TRANS-1,2-DICHLOROETHYLEN	UG/L			< 0.5		< 1	
BROMOMETHANE	UG/L			< 1		< 1	
CHLOROETHANE	UG/L			< 1		< 1	
2-CHLOROETHYLVINYLETHER	UG/L			< 1		< 1	
CHLOROMETHANE	UG/L			< 1		< 1	
1,2-DICHLOROPROPANE	UG/L			< 0.5		< 1	
CIS-1,3-DICHLOROPROPENE	UG/L			< 0.5		< 1	
TRANS-1,3-DICHLOROPROPENE	UG/L			< 0.5		< 1	
1,1,2,2-TETRACHLOROETHANE	UG/L			< 0.5		< 0.5	
ACROLEIN	UG/L			< 200		< 10	
ACRYLONITRILE	UG/L			< 50		< 10	
ACETONITRILE	UG/L			< 100		< 20	
FREON 12 (CCL2F2)	UG/L			< 0.5		< 1	
FREON 11 (CCL3F)	UG/L			< 1		< 1	
1,2-DIBROMOETHANE	UG/L			< 0.01		< 0.01	
ACETONE	UG/L			< 10		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L			< 0.5		4	
2-BUTANONE	UG/L			< 10		< 10	
4-METHYL-2-PENTANONE	UG/L			< 10		< 10	
STYRENE	UG/L			< 0.5		< 1	
2,4,5-TRICHLOROPHENOL	UG/L			< 2		< 2	
M+P-XYLENE	UG/L			< 0.5		< 1	
CARBON DISULFIDE	UG/L	CS2		< 0.5		< 1	
2-HEXANONE	UG/L	C6H12O		< 10		< 5	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
F-INTERFERENCE G-DUP & SPIKE H-CONSTIT NOT ANALYZE I-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ94174 04/03/95		CNYN 9 LCRS SJ94175 04/03/95		CNYN 9 LCRS(F) SJ02243 10/03/95		CNYN 9 LCRS SJ02245 10/03/95		CNYN 9 LCRS SJ04334 11/20/95	
ACID-BASE NEUTRAL EXTRACTABLE											
ACETOPHENONE	UG/L		<	4			<	4			
2-ACETYLAMINOFLUORENE	UG/L		<	3			<	3			
4-AMINOBIPHENYL	UG/L		<	5			<	5			
BENZYL ALCOHOL	UG/L		<	5			<	5			
P-CHLOROANILINE	UG/L		<	6			<	6			
CHLOROBENZILATE	UG/L		<	3			<	3			
DIALLATE	UG/L		<	4			<	4			
DIBENZOFURAN	UG/L		<	4			<	4			
2,6-DICHLOROPHENOL	UG/L		<	6			<	5			
P(DIMETHYLAMINO)AZOBENZEN	UG/L		<	4			<	4			
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		<	15			<	15			
3,3'-DIMETHYLBENZIDINE	UG/L		<	4			<	4			
M-DINITROBENZENE	UG/L		<	4			<	14			
DIPHENYLAMINE	UG/L		<	10			<	10			
ETHYL METHANESULFONATE	UG/L		<	4			<	4			
FAMPHUR	UG/L		<	50			<	1			
HEXACHLOROPROPENE	UG/L		<	20			<	20			
ISODRIN	UG/L		<	5			<	5			
ISOSAFROLE	UG/L		<	5			<	5			
KEPONE	UG/L		<	50			<	50			
METHAPYRILENE	UG/L		<	5			<	5			
3-METHYLCHOLANTHRENE	UG/L		<	2			<	13			
METHYL METHANESULFONATE	UG/L		<	11			<	11			
2-METHYLNAPHTHALENE	UG/L		<	5			<	5			
1,4-NAPHTHOQUINONE	UG/L		<	8			<	8			
1-NAPHTHYLAMINE	UG/L		<	4			<	2			
2-NAPHTHYLAMINE	UG/L		<	4			<	1			
O-NITROANILINE	UG/L		<	4			<	4			
M-NITROANILINE	UG/L		<	4			<	4			
P-NITROANILINE	UG/L		<	4			<	4			
N-NITROSODI-N-BUTYLAMINE	UG/L		<	5			<	15			
N-NITROSODIETHYLAMINE	UG/L		<	5			<	5			
N-NITROSOMETHYLETHYLAMINE	UG/L		<	6			<	6			
N-NITROSOPIPERIDINE	UG/L		<	5			<	5			
N-NITROSOPYRROLIDINE	UG/L		<	5			<	5			
5-NITRO-O-TOLUIDINE	UG/L		<	5			<	5			
PENTACHLOROBENZENE	UG/L		<	4			<	4			
PENTACHLORONITROBENZENE	UG/L		<	4			<	4			
PHENACETIN	UG/L		<	4			<	4			
P-PHENYLENEDIAMINE	UG/L		<	20			<	20			
PRONAMIDE	UG/L		<	5			<	5			

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
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TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ94174 04/03/95	CNYN 9 LCRS SJ94175 04/03/95	CNYN 9 LCRS(F) SJ02243 10/03/95	CNYN 9 LCRS SJ02245 10/03/95	CNYN 9 LCRS SJ04334 11/20/95
ACID-BASE NEUTRAL EXTRACTABLE						
SAFROLE	UG/L		< 5		< 5	
1,2,4,5-TETRACHLOROBENZEN	UG/L		< 5		< 5	
2,3,4,6-TETRACHLOROPHENOL	UG/L		< 5		< 5	
O-TOLUIDINE	UG/L		< 5		< 5	
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		< 5		< 5	
SYM-TRINITROBENZENE	UG/L		< 48		< 48	
ACENAPHTHENE	UG/L		< 2		< 2	
ACENAPHTHYLENE	UG/L		< 2		< 2	
ANTHRACENE	UG/L		< 2		< 2	
BENZIDINE	UG/L		< 62		< 62	
BENZO(A)ANTHRACENE	UG/L		< 2		< 2	
BENZO(A)PYRENE	UG/L		< 0.3		< 0.3	
BENZO(B)FLUORANTHENE	UG/L		< 2		< 2	
BENZO(G.H.I.)PERYLENE	UG/L		< 1		< 1	
BENZO(K)FLUORANTHENE	UG/L		< 2		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L		< 2		< 2	
BIS(2-CHLOROETHYL)ETHER	UG/L		< 1		< 1	
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 7		< 7	
DIETHYLHEXYL PHTHALATE	UG/L		< 1		< 1	
4-BROMOPHENYL PHENYLETHER	UG/L		< 2		< 2	
BUTYLBENZYL PHTHALATE	UG/L		< 2		< 2	
2-CHLORONAPHTHALENE	UG/L		< 3		< 3	
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2		< 2	
CHRYSENE	UG/L		< 1		< 1	
DIBENZO(A,H)ANTHRACENE	UG/L		< 1		< 1	
3,3'-DICHLOROBENZIDINE	UG/L		< 3		< 14	
DIETHYL PHTHALATE	UG/L		< 3		< 2	
DIMETHYL PHTHALATE	UG/L		< 3		< 2	
DI-N-BUTYL PHTHALATE	UG/L		< 1		< 1	
2,4-DINITROTOLUENE	UG/L		< 2		< 2	
2,6-DINITROTOLUENE	UG/L		< 2		< 2	
DI-N-OCTYL PHTHALATE	UG/L		< 2		< 2	
FLUORANTHENE	UG/L		< 2		< 2	
FLUORENE	UG/L		< 2		< 2	
HEXACHLOROBENZENE	UG/L		< 1		< 1	
HEXACHLOROBUTADIENE	UG/L		< 4		< 4	
HEXACHLOROCYCLOPENTADIENE	UG/L		< 30		< 30	
HEXACHLOROETHANE	UG/L		< 4		< 4	
INDENO(1,2,3-C,D)PYRENE	UG/L		< 2		< 2	
ISOPHORONE	UG/L		< 1		< 1	
NAPHTHALENE	UG/L		< 3		< 3	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
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TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ94174 04/03/95	CNYN 9 LCRS SJ94175 04/03/95	CNYN 9 LCRS(F) SJ02243 10/03/95	CNYN 9 LCRS SJ02245 10/03/95	CNYN 9 LCRS SJ04334 11/20/95
ACID-BASE NEUTRAL EXTRACTABLE						
NITROBENZENE	UG/L		< 2		< 2	
N-NITROSODIMETHYLAMINE	UG/L		< 1		< 1	
N-NITROSODI-N-PROPYLAMINE	UG/L		< 3		< 3	
PHENANTHRENE	UG/L		< 2		< 2	
PYRENE	UG/L		< 1		< 1	
2-CHLOROPHENOL	UG/L		< 2		< 2	
1,2,4-TRICHLOROBENZENE	UG/L		< 4		< 4	
2,4-DICHLOROPHENOL	UG/L		< 2		< 2	
2,4-DIMETHYLPHENOL	UG/L		< 2		< 2	
2,4-DINITROPHENOL	UG/L		< 19		< 19	
2-METHYL-4,6DINITROPHENOL	UG/L		< 2		< 2	
2-NITROPHENOL	UG/L		< 3		< 3	
4-NITROPHENOL	UG/L		< 18		< 18	
4-CHLORO-3-METHYLPHENOL	UG/L		< 2		< 2	
PENTACHLOROPHENOL	UG/L		< 1			H < 0.1
PHENOL	UG/L		< 2		< 2	
2,4,6-TRICHLOROPHENOL	UG/L		< 2		< 2	
N-NITROSODIPHENYLAMINE	UG/L		< 2		< 2	
O-CRESOL	UG/L		< 4		< 4	
M+P CRESOL	UG/L		< 3		< 3	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CHECK NOTES TO USER
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TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ02244 10/03/95	EASTERN CANYONS LCS2 SJ02246 10/03/95	EASTERN CANYONS LCS2 SJ04335 11/20/95							
GENERAL											
PH	PH		7.43								
CONDUCTIVITY	UMHOS/CM		1940	A							
TOTAL DISSOLVED SOLIDS	MG/L		1278	A							
TOTAL HARDNESS	MG/L CACO3		1052	C							
TOTAL CYANIDE	MG/L CN		<0.002								
BORON	MG/L B		0.42								
ANIONS											
NITRATE NITROGEN	MG/L N		< 0.02	B							
SULFATE	MG/L SO4		5.1	B							
CHLORIDE	MG/L CL		57.9	B							
TOTAL ALKALINITY	MG/L CACO3		723								
BICARBONATE ALKALINITY	MG/L CACO3		723								
TOTAL SULFIDE	MG/L S		< 0.1								
FLUORIDE	MG/L F		0.46								
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3		607								
MAGNESIUM-HARDNESS	MG/L CACO3		445								
SODIUM	MG/L NA		107								
POTASSIUM	MG/L K		11.4								
IRON	MG/L FE	0.04	3.62								
MANGANESE	MG/L MN	8.54	8.57								
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N		< 0.1								
TOTAL BOD	MG/L O		2								
SOLUBLE BOD	MG/L O		< 0.7	A							
TOTAL COD	MG/L O		13								
SOLUBLE COD	MG/L O		9								
TOTAL ORGANIC CARBON	MG/L C		3.7								
OIL & GREASE	MG/L EXTRAC		3.8	D							
TOTAL ORGANIC HALOGEN(TOX	UG/L		84	D							
METALS											
ARSENIC	MG/L AS	.0014	.0037								
BARIUM	MG/L BA	0.38	0.4								

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CONSTIT NOT ANALYZE
F-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ02244 10/03/95	EASTERN CANYONS LCS2 SJ02246 10/03/95	EASTERN CANYONS LCS2 SJ04335 11/20/95
METALS				
CADMIUM	MG/L CD	<0.003	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	
COBALT	MG/L CO	0.01	< 0.01	
COPPER	MG/L CU	< 0.01	< 0.01	
LEAD	MG/L PB	< 0.02	< 0.02	
MERCURY	MG/L HG	<.0001	<.0001	
NICKEL	MG/L NI	< 0.02	< 0.02	
SELENIUM	MG/L SE	<.0010	<.0010	
SILVER	MG/L AG	< 0.01	< 0.01	
ZINC	MG/L ZN	< 0.01	< 0.01	
ANTIMONY	MG/L SB	<.0005	<.0005	
BERYLLIUM	MG/L BE	<.0005	<.0005	
THALLIUM	MG/L TL	<0.002	<0.002	
TIN	MG/L SN	< 0.06	< 0.06	
VANADIUM	MG/L V	< 0.05	< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
2,4,5-T	UG/L		< 0.5	< 0.05 F
DINOSEB	UG/L		E <	0.1 F
THIONAZIN	UG/L		< 1	< 1
DIMETHOATE	UG/L		E <	1
DISULFOTON	UG/L		E <	1
METHYL PARATHION	UG/L		< 1	< 1
ETHYL PARATHION	UG/L		< 1	< 1
PHORATE	UG/L		E <	1
PP'-DDE	UG/L		< 0.01	
PP'-DDD	UG/L		< 0.01	
PP'-DDT	UG/L		< 0.01	
ALPHA-BHC	UG/L		< 0.01	
LINDANE (GAMMA-BHC)	UG/L		< 0.01	
HEPTACHLOR	UG/L		< 0.01	
HEPTACHLOR EPOXIDE	UG/L		< 0.01	
ALDRIN	UG/L		< 0.01	
DIELDRIN	UG/L		< 0.01	
ENDRIN	UG/L		< 0.01	
TOXAPHENE	UG/L		< 0.5	
METHOXYCLOR	UG/L		< 0.01	
2,4-D(ACID)	UG/L		< 5	< 0.5 F
2,4,5-TP(SILVEX)	UG/L		< 0.5	< 0.05 F
AROCLOR 1242	UG/L		< 0.1	

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F-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ02244 10/03/95	EASTERN CANYONS LCS2 SJ02246 10/03/95	EASTERN CANYONS LCS2 SJ04335 11/20/95							
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
AROCLOR 1254	UG/L		< 0.05								
BETA-BHC	UG/L		< 0.01								
DELTA-BHC	UG/L		< 0.01								
ENDOSULFAN I	UG/L		< 0.01								
ENDOSULFAN II	UG/L		< 0.01								
ENDOSULFAN SULFATE	UG/L		< 0.1								
ENDRIN ALDEHYDE	UG/L		< 0.01								
AROCLOR 1016	UG/L		< 0.1								
AROCLOR 1221	UG/L		< 0.1								
AROCLOR 1232	UG/L		< 0.1								
AROCLOR 1248	UG/L		< 0.1								
AROCLOR 1260	UG/L		< 0.1								
TECHNICAL CHLORDANE	UG/L		< 0.05								
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L		< 1								
BROMOCHLOROMETHANE	UG/L		< 1								
CHLOROPRENE	UG/L			E							
1,2-DIBROMO-3-CHLOROPROPA	UG/L		< 0.01								
T-1,4-DICHLORO-2-BUTENE	UG/L		< 1								
1,3-DICHLOROPROPANE	UG/L		< 0.3								
2,2-DICHLOROPROPANE	UG/L		< 1								
1,1-DICHLOROPROPENE	UG/L		< 1								
ISOBUTYL ALCOHOL	UG/L		< 10								
METHACRYLONITRILE	UG/L		< 10								
METHYL IODIDE	UG/L		< 1								
METHYLENE BROMIDE	UG/L		< 1								
PROPIONITRILE	UG/L		< 10								
1,1,1,2-TETRACHLOROETHANE	UG/L		< 1								
1,2,3-TRICHLOROPROPANE	UG/L		< 1								
METHYL METHACRYLATE	UG/L		< 10								
ETHYL METHACRYLATE	UG/L		< 5								
METHYLENE CHLORIDE	UG/L		< 1								
CHLOROFORM	UG/L		< 1								
1,1,1-TRICHLOROETHANE	UG/L		10								
CARBON TETRACHLORIDE	UG/L		< 0.3								
1,1-DICHLOROETHENE	UG/L		< 1								
TRICHLOROETHYLENE	UG/L		< 1								
TETRACHLOROETHYLENE	UG/L		< 1								
BROMODICHLOROMETHANE	UG/L		< 1								

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VOLATILE ORGANIC COMPOUNDS					
DIBROMOCHLOROMETHANE	UG/L			< 1	
BROMOFORM	UG/L			< 1	
CHLOROBENZENE	UG/L			< 1	
VINYL CHLORIDE	UG/L			< 0.3	
O-DICHLOROBENZENE	UG/L			< 1	
M-DICHLOROBENZENE	UG/L			< 1	
P-DICHLOROBENZENE	UG/L			< 1	
1,1-DICHLOROETHANE	UG/L			14	
1,1,2-TRICHLOROETHANE	UG/L			< 1	
1,2-DICHLOROETHANE	UG/L			< 0.3	
BENZENE	UG/L			< 0.5	
TOLUENE	UG/L			< 1	
ETHYL BENZENE	UG/L			< 1	
VINYL ACETATE	UG/L			< 10	
O-XYLENE	UG/L			< 1	
TRANS-1,2-DICHLOROETHYLEN	UG/L			< 1	
BROMOMETHANE	UG/L			< 1	
CHLOROETHANE	UG/L			< 1	
2-CHLOROETHYLVINYLETHER	UG/L			< 1	
CHLOROMETHANE	UG/L			< 1	
1,2-DICHLOROPROPANE	UG/L			< 1	
CIS-1,3-DICHLOROPROPENE	UG/L			< 1	
TRANS-1,3-DICHLOROPROPENE	UG/L			< 1	
1,1,2,2-TETRACHLOROETHANE	UG/L			< 0.5	
ACROLEIN	UG/L			< 10	
ACRYLONITRILE	UG/L			< 10	
ACETONITRILE	UG/L			< 20	
FREON 12 (CCL2F2)	UG/L			5	
FREON 11 (CCL3F)	UG/L			7	
1,2-DIBROMOETHANE	UG/L			< 0.01	
ACETONE	UG/L			< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L			< 1	
2-BUTANONE	UG/L			< 10	
4-METHYL-2-PENTANONE	UG/L			< 10	
STYRENE	UG/L			< 1	
2,4,5-TRICHLOROPHENOL	UG/L			< 2	
M+P-XYLENE	UG/L			< 1	
CARBON DISULFIDE	UG/L	CS2		< 1	
2-HEXANONE	UG/L	C6H12O		< 5	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CONSTIT NOT ANALYZE
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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ02244 10/03/95	EASTERN CANYONS LCS2 SJ02246 10/03/95	EASTERN CANYONS LCS2 SJ04335 11/20/95
ACID-BASE NEUTRAL EXTRACTABLE				
ACETOPHENONE	UG/L		< 4	
2-ACETYLAMINOFLUORENE	UG/L		< 3	
4-AMINOBIPHENYL	UG/L		< 5	
BENZYL ALCOHOL	UG/L		< 5	
P-CHLOROANILINE	UG/L		< 6	
CHLOROBENZILATE	UG/L		< 3	
DIALLATE	UG/L		< 4	
DIBENZOFURAN	UG/L		< 4	
2,6-DICHLOROPHENOL	UG/L		< 5	
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4	
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15	
3,3'-DIMETHYLBENZIDINE	UG/L		< 4	
M-DINITROBENZENE	UG/L		< 14	
DIPHENYLAMINE	UG/L		< 10	
ETHYL METHANESULFONATE	UG/L		< 4	
FAMPHUR	UG/L		< 1	
HEXACHLOROPROPENE	UG/L		< 20	
ISODRIN	UG/L		< 5	
ISOSAFROLE	UG/L		< 5	
KEPONE	UG/L		< 50	
METHAPYRILENE	UG/L		< 5	
3-METHYLCHOLANTHRENE	UG/L		< 13	
METHYL METHANESULFONATE	UG/L		< 11	
2-METHYLNAPHTHALENE	UG/L		< 5	
1,4-NAPHTHOQUINONE	UG/L		< 8	
1-NAPHTHYLAMINE	UG/L		< 2	
2-NAPHTHYLAMINE	UG/L		< 1	
O-NITROANILINE	UG/L		< 4	
M-NITROANILINE	UG/L		< 4	
P-NITROANILINE	UG/L		< 4	
N-NITROSODI-N-BUTYLAMINE	UG/L		< 15	
N-NITROSODIETHYLAMINE	UG/L		< 5	
N-NITROSOMETHYLETHYLAMINE	UG/L		< 6	
N-NITROSOPIPERIDINE	UG/L		< 5	
N-NITROSOPYRROLIDINE	UG/L		< 5	
5-NITRO-O-TOLUIDINE	UG/L		< 5	
PENTACHLOROBENZENE	UG/L		< 4	
PENTACHLORONITROBENZENE	UG/L		< 4	
PHENACETIN	UG/L		< 4	
P-PHENYLENEDIAMINE	UG/L		< 20	
PRONAMIDE	UG/L		< 5	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CONSTIT NOT ANALYZE
F-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ02244 10/03/95	EASTERN CANYONS LCS2 SJ02246 10/03/95	EASTERN CANYONS LCS2 SJ04335 11/20/95
ACID-BASE NEUTRAL EXTRACTABLE				
SAFROLE	UG/L	< 5		
1,2,4,5-TETRACHLOROBENZEN	UG/L	< 5		
2,3,4,6-TETRACHLOROPHENOL	UG/L	< 5		
O-TOLUIDINE	UG/L	< 5		
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	< 5		
SYM-TRINITROBENZENE	UG/L	< 48		
ACENAPHTHENE	UG/L	< 2		
ACENAPHTHYLENE	UG/L	< 2		
ANTHRACENE	UG/L	< 2		
BENZIDINE	UG/L	< 62		
BENZO(A)ANTHRACENE	UG/L	< 2		
BENZO(A)PYRENE	UG/L	< 0.3		
BENZO(B)FLUORANTHENE	UG/L	< 2		
BENZO(G.H.I.)PERYLENE	UG/L	< 1		
BENZO(K)FLUORANTHENE	UG/L	< 2		
BIS(2-CL-ETHOXY)METHANE	UG/L	< 2		
BIS(2-CHLOROETHYL)ETHER	UG/L	< 1		
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 7		
DIETHYLHEXYL PHTHALATE	UG/L	2		
4-BROMOPHENYL PHENYLETHER	UG/L	< 2		
BUTYLBENZYL PHTHALATE	UG/L	< 2		
2-CHLORONAPHTHALENE	UG/L	< 3		
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2		
CHRYSENE	UG/L	< 1		
DIBENZO(A,H)ANTHRACENE	UG/L	< 1		
3,3'-DICHLOROBENZIDINE	UG/L	< 14		
DIETHYL PHTHALATE	UG/L	< 2		
DIMETHYL PHTHALATE	UG/L	< 2		
DI-N-BUTYL PHTHALATE	UG/L	< 1		
2,4-DINITROTOLUENE	UG/L	< 2		
2,6-DINITROTOLUENE	UG/L	< 2		
DI-N-OCTYL PHTHALATE	UG/L	< 2		
FLUORANTHENE	UG/L	< 2		
FLUORENE	UG/L	< 2		
HEXACHLOROBENZENE	UG/L	< 1		
HEXACHLOROBUTADIENE	UG/L	< 4		
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30		
HEXACHLOROETHANE	UG/L	< 4		
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2		
ISOPHORONE	UG/L	< 1		
NAPHTHALENE	UG/L	< 3		

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CONSTIT NOT ANALYZE
F-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUIDS COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ02244 10/03/95	EASTERN CANYONS LCS2 SJ02246 10/03/95	EASTERN CANYONS LCS2 SJ04335 11/20/95
ACID-BASE NEUTRAL EXTRACTABLE				
NITROBENZENE	UG/L		< 2	
N-NITROSODIMETHYLAMINE	UG/L		< 1	
N-NITROSODI-N-PROPYLAMINE	UG/L		< 3	
PHENANTHRENE	UG/L		< 2	
PYRENE	UG/L		< 1	
2-CHLOROPHENOL	UG/L		< 2	
1,2,4-TRICHLOROBENZENE	UG/L		< 4	
2,4-DICHLOROPHENOL	UG/L		< 2	
2,4-DIMETHYLPHENOL	UG/L		< 2	
2,4-DINITROPHENOL	UG/L		< 19	
2-METHYL-4,6DINITROPHENOL	UG/L		< 2	
2-NITROPHENOL	UG/L		< 3	
4-NITROPHENOL	UG/L		< 18	
4-CHLORO-3-METHYLPHENOL	UG/L		< 2	
PENTACHLOROPHENOL	UG/L			E < 0.1
PHENOL	UG/L		< 2	
2,4,6-TRICHLOROPHENOL	UG/L		< 2	
N-NITROSODIPHENYLAMINE	UG/L		< 2	
O-CRESOL	UG/L		< 4	
M+P CRESOL	UG/L		< 3	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-CONSTIT NOT ANALYZE
F-AMENDED TEST RESULT

TABLE A.8

WATER QUALITY DATA

SURFACE RUNOFF MONITORING RESULTS

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ90012 01/03/95	RUN EQIP SJ91984 02/13/95	RUN SDB SJ90011 01/03/95	RUN SD1 SJ91981 02/13/95	RUN SD1 SJ93140 03/10/95	RUN SD10 SJ90016 01/03/95	RUN SD11 SJ90017 01/03/95	RUN SD2 SJ91982 02/13/95	RUN SD2 SJ93141 03/10/95	RUN SD3 SJ90013 01/03/95
GENERAL											
PH	PH	6.2	7.6	8.1	7.5	7.3	8.2	7.6	7.5	7.1	8.1
CONDUCTIVITY	UMHOS/CM	2.6	2.66	397	1270	1140	359	204	1280	1780	157
SUSPENDED SOLIDS	MG/L	< 4	< 4	7380	2970	1070	3110	8250	1260	5600	5160
TOTAL DISSOLVED SOLIDS	MG/L	< 10	< 10	240	984	800			1004	1360	
TOTAL HARDNESS	MG/L CACO3	< 5		430							
TOTAL CYANIDE	MG/L CN	< 0.02		< 0.02							
BORON	MG/L B	< 0.5		0.18							
ANIONS											
NITRATE NITROGEN	MG/L N	< 0.1	0.03	1.1	5.5	0.6			5.9	< 0.5	
SULFATE	MG/L SO4	< 1		110							
CHLORIDE	MG/L CL	< 1		13							
TOTAL ALKALINITY	MG/L CACO3	< 10		170							
BICARBONATE ALKALINITY	MG/L CACO3	< 10		A							
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1							
FLUORIDE	MG/L F	< 0.1		0.2							
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3	A		A							
MAGNESIUM-HARDNESS	MG/L CACO3	A		A							
SODIUM	MG/L NA	< 1		19.1							
POTASSIUM	MG/L K	0.91		34.9							
IRON	MG/L FE	< 0.1		172							
MANGANESE	MG/L MN	< 0.02		2.4							
SOLUBLE IRON	MG/L FE	0.02 B		0.1 B							
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N	< 0.05		0.43							
TOTAL BOD	MG/L O	2		34							
SOLUBLE BOD	MG/L O	2		4							
TOTAL COD	MG/L O	< 10		552							
SOLUBLE COD	MG/L O	< 10		54.2							
TOTAL ORGANIC CARBON	MG/L C	< 1	< 1	19	21	18.3	15	26	19	64.7	12
OIL & GREASE	MG/L EXTRAC	< 5	5.8	43.7	11.8	< 5	15.8	< 5	39.1	64.5	< 5
TOTAL ORGANIC HALOGEN(TOX	MG/L	< 0.01		0.013							

FOOTNOTES : A-CONSTIT NOT ANALYZE B-VALUE >MDL, <RL

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ90012 01/03/95	RUN EQIP SJ91984 02/13/95	RUN SDB SJ90011 01/03/95	RUN SD1 SJ91981 02/13/95	RUN SD1 SJ93140 03/10/95	RUN SD10 SJ90016 01/03/95	RUN SD11 SJ90017 01/03/95	RUN SD2 SJ91982 02/13/95	RUN SD2 SJ93141 03/10/95	RUN SD3 SJ90013 01/03/95
METALS											
ARSENIC	MG/L AS	<0.003	<0.003	0.006	0.004	<0.003			0.004	0.005	
BARIUM	MG/L BA	< 0.02	< 0.02	0.85	0.11	0.04			0.1	0.08	
CADMIUM	MG/L CD	< 0.01	< 0.01	0.003	< 0.01	< 0.01			< 0.01	< 0.01	
TOTAL CHROMIUM	MG/L CR	< 0.02	< 0.02	0.2	< 0.02	< 0.02			< 0.02	< 0.02	
COBALT	MG/L CO	< 0.05	< 0.05	0.07	< 0.05	< 0.05			< 0.05	< 0.05	
COPPER	MG/L CU	0.02 B	< 0.02	0.21	0.03	< 0.02			0.06	0.05	
LEAD	MG/L PB	< 0.2	< 0.20	< 0.2	0.05 B	0.09 B			0.08 B	< 0.20	
MERCURY	MG/L HG	<.0005	<.0005	.0007	<.0005	<.0005			<.0005	<.0005	
NICKEL	MG/L NI	< 0.05	< 0.05	0.21	0.02 B	< 0.05			< 0.05	< 0.05	
SELENIUM	MG/L SE	< 0.01	< 0.01	0.01	< 0.01	< 0.01			< 0.01	< 0.01	
SILVER	MG/L AG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	
ZINC	MG/L ZN	< 0.02	0.02 B	0.79	0.51	0.05			0.4	0.38	
ANTIMONY	MG/L SB	<0.003	0.001 B	0.001 B	0.001 B	<0.003			0.003 B	0.003 B	
BERYLLIUM	MG/L BE	<.0005	<0.001	<.0005	0.002	<0.001			0.001	<0.001	
THALLIUM	MG/L TL	<0.003		<0.003							
TIN	MG/L SN	< 0.2	< 0.2	< 0.2	< 0.20	< 0.05			< 0.2	< 0.05	
VANADIUM	MG/L V	< 0.05	< 0.05	0.31	< 0.05	< 0.05			< 0.05	< 0.05	
SOLUBLE ARSENIC	MG/L AS	<0.003	<0.003	0.002 B	0.001 B	<0.003			0.001 B	0.003 B	
SOLUBLE BARIUM	MG/L BA	< 0.02	< 0.02	0.03	0.08	0.04			0.04	0.07	
SOLUBLE ANTIMONY	MG/L SB	<0.003	<0.003	<0.003	0.002 B	<0.003			0.003 B	<0.003	
SOLUBLE CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01	< 0.01	
SOLUBLE CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	
SOLUBLE COBALT	MG/L CO	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.02	
SOLUBLE COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	
SOLUBLE LEAD	MG/L PB	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1	0.08 B	
SOLUBLE MANGANESE	MG/L MN	< 0.02		0.03							
SOLUBLE MERCURY	MG/L HG	<.0005	<.0005	.0002	<.0005	<.0005			<.0005	<.0005	
SOLUBLE NICKEL	MG/L NI	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	
SOLUBLE SELENIUM	MG/L SE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			< 0.01	< 0.01	
SOLUBLE BERYLLIUM	MG/L BE	A	<0.005	A	<0.005	<0.005			<0.005	<0.005	
SOLUBLE SILVER	MG/L AG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02			< 0.02	< 0.02	
SOLUBLE ZINC	MG/L ZN	0.02	0.04	0.03	0.09	0.02 B			0.05	0.07	
SOLUBLE THALLIUM	MG/L TL	<0.003		<0.003							
SOLUBLE TIN	MG/L SN	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05			< 0.05	< 0.05	
SOLUBLE VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L		< 0.02		< 0.2	< 0.04			< 0.2	< 0.1	
PP'-DDD	UG/L		< 0.02		< 0.2	< 0.04			< 0.2	< 0.1	
PP'-DDT	UG/L		< 0.02		< 0.2	< 0.04			< 0.2	< 0.1	

FOOTNOTES : A-CONSTIT NOT ANALYZE B-VALUE >MDL, <RL

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ90012 01/03/95	RUN EQIP SJ91984 02/13/95	RUN SDB SJ90011 01/03/95	RUN SD1 SJ91981 02/13/95	RUN SD1 SJ93140 03/10/95	RUN SD10 SJ90016 01/03/95	RUN SD11 SJ90017 01/03/95	RUN SD2 SJ91982 02/13/95	RUN SD2 SJ93141 03/10/95	RUN SD3 SJ90013 01/03/95
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
LINDANE (GAMMA-BHC)	UG/L		< 0.02		< 0.2	0.02			< 0.2	< 0.1	
HEPTACHLOR	UG/L		< 0.01		< 0.1	< 0.02			< 0.1	< 0.05	
ALDRIN	UG/L		< 0.02		< 0.2	< 0.04			< 0.2	< 0.1	
DIELDRIN	UG/L		< 0.02		< 0.2	< 0.04			< 0.2	< 0.1	
TECHNICAL CHLORDANE	UG/L		< 0.2		< 2	< 0.4			< 2	< 1	
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-CONSTIT NOT ANALYZE B-VALUE >MDL, <RL

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ90012 01/03/95	RUN EQIP SJ91984 02/13/95	RUN SDB SJ90011 01/03/95	RUN SD1 SJ91981 02/13/95	RUN SD1 SJ93140 03/10/95	RUN SD10 SJ90016 01/03/95	RUN SD11 SJ90017 01/03/95	RUN SD2 SJ91982 02/13/95	RUN SD2 SJ93141 03/10/95	RUN SD3 SJ90013 01/03/95
VOLATILE ORGANIC COMPOUNDS											
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05
ACETONE	UG/L	< 10	13	< 10	< 10	< 10	< 10	< 10	< 10	16	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M+P-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON DISULFIDE	UG/L CS2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-HEXANONE	UG/L C6H12O	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ACID-BASE NEUTRAL EXTRACTABLE											
DIETHYLHEXYL PHTHALATE	UG/L		< 4		< 4	< 4			< 4	< 4	
CHRYSENE	UG/L		< 5		< 5	< 5			< 5	< 5	
DIETHYL PHTHALATE	UG/L		< 5		< 5	< 5			< 5	< 5	
FLUORANTHENE	UG/L		< 5		< 5	< 5			< 5	< 5	
PHENANTHRENE	UG/L		< 5		< 5	< 5			< 5	< 5	
PYRENE	UG/L		< 5		< 5	< 5			< 5	< 5	
4-NITROPHENOL	UG/L		< 10		< 10	< 10			< 10	< 10	
PHENOL	UG/L		< 5		< 5	< 5			< 5	7	
N-NITROSODIPHENYLAMINE	UG/L		< 5		< 5	< 5			< 5	< 5	

FOOTNOTES : A-CONSTIT NOT ANALYZE B-VALUE >MDL, <RL

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD4 SJ90014 01/03/95	RUN SD5 SJ90015 01/03/95	RUN SD9 SJ91983 02/13/95	RUN SD9 SJ93142 03/10/95
GENERAL					
PH	PH	8	8	7.2	7.4
CONDUCTIVITY	UMHOS/CM	270	199	1540	855
SUSPENDED SOLIDS	MG/L	4070	1960	887	6810
TOTAL DISSOLVED SOLIDS	MG/L			1280	652
ANIONS					
NITRATE NITROGEN	MG/L N			4.4	< 0.5
ORGANIC MATTER					
TOTAL ORGANIC CARBON	MG/L C	20	13	12	15.6
OIL & GREASE	MG/L EXTRAC	< 5	< 5	< 5	6.7
METALS					
ARSENIC	MG/L AS			0.004	<0.003
BARIUM	MG/L BA			0.06	0.04
CADMIUM	MG/L CD			< 0.01	< 0.01
TOTAL CHROMIUM	MG/L CR			< 0.02	< 0.02
COBALT	MG/L CO			< 0.05	< 0.05
COPPER	MG/L CU			0.03	< 0.02
LEAD	MG/L PB			< 0.20	< 0.20
MERCURY	MG/L HG			<.0005	<.0005
NICKEL	MG/L NI			0.03 B	< 0.05
SELENIUM	MG/L SE			< 0.01	< 0.01
SILVER	MG/L AG			< 0.02	< 0.02
ZINC	MG/L ZN			0.77	0.06
ANTIMONY	MG/L SB			0.001 B	<0.003
BERYLLIUM	MG/L BE			0.001	<0.001
TIN	MG/L SN			< 0.05	< 0.05
VANADIUM	MG/L V			< 0.05	< 0.05
SOLUBLE ARSENIC	MG/L AS			0.001 B	<0.003
SOLUBLE BARIUM	MG/L BA			0.04	0.03
SOLUBLE ANTIMONY	MG/L SB			<0.003	<0.003
SOLUBLE CADMIUM	MG/L CD			< 0.01	< 0.01
SOLUBLE CHROMIUM	MG/L CR			< 0.02	< 0.02
SOLUBLE COBALT	MG/L CO			< 0.05	< 0.05
SOLUBLE COPPER	MG/L CU			< 0.02	< 0.02
SOLUBLE LEAD	MG/L PB			< 0.1	< 0.1
SOLUBLE MERCURY	MG/L HG			<.0005	<.0005

FOOTNOTES : A-CONSTIT NOT ANALYZE B-VALUE >MDL, <RL

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD4 SJ90014 01/03/95	RUN SD5 SJ90015 01/03/95	RUN SD9 SJ91983 02/13/95	RUN SD9 SJ93142 03/10/95						
METALS											
SOLUBLE NICKEL	MG/L NI			< 0.05	< 0.05						
SOLUBLE SELENIUM	MG/L SE			< 0.01	< 0.01						
SOLUBLE BERYLLIUM	MG/L BE			<0.005	<0.005						
SOLUBLE SILVER	MG/L AG			< 0.02	< 0.02						
SOLUBLE ZINC	MG/L ZN			0.22	0.02 B						
SOLUBLE TIN	MG/L SN			< 0.05	< 0.05						
SOLUBLE VANADIUM	MG/L V			< 0.05	< 0.05						
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L			< 0.2	< 0.02						
PP'-DDD	UG/L			< 0.2	< 0.02						
PP'-DDT	UG/L			< 0.2	< 0.02						
LINDANE (GAMMA-BHC)	UG/L			< 0.2	< 0.02						
HEPTACHLOR	UG/L			< 0.1	< 0.01						
ALDRIN	UG/L			< 0.2	< 0.02						
DIELDRIN	UG/L			< 0.2	< 0.02						
TECHNICAL CHLORDANE	UG/L			< 2	< 0.2						
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01						
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 2	< 2						
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3						
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5						

FOOTNOTES : A-CONSTIT NOT ANALYZE B-VALUE >MDL, <RL

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		RUN SD4 SJ90014 01/03/95	RUN SD5 SJ90015 01/03/95	RUN SD9 SJ91983 02/13/95	RUN SD9 SJ93142 03/10/95						
VOLATILE ORGANIC COMPOUNDS												
P-DICHLOROBENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
1,1-DICHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
1,1,2-TRICHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
1,2-DICHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
TOLUENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
ETHYL BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10						
O-XYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1						
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1						
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1						
1,2-DICHLOROPROPANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
CIS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
TRANS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
ACRYLONITRILE	UG/L		< 50	< 50	< 50	< 50						
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1						
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01						
ACETONE	UG/L		< 10	< 10	< 10	< 10						
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10						
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10						
STYRENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
M+P-XYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5						
CARBON DISULFIDE	UG/L	CS2	< 0.5	< 0.5	< 0.5	< 0.5						
2-HEXANONE	UG/L	C6H12O	< 10	< 10	< 10	< 10						
ACID-BASE NEUTRAL EXTRACTABLE												
DIETHYLHEXYL PHTHALATE	UG/L				< 4	< 4						
CHRYSENE	UG/L				< 5	< 5						
DIETHYL PHTHALATE	UG/L				< 5	< 5						
FLUORANTHENE	UG/L				< 5	< 5						
PHENANTHRENE	UG/L				< 5	< 5						
PYRENE	UG/L				< 5	< 5						
4-NITROPHENOL	UG/L				< 10	< 10						
PHENOL	UG/L				< 5	< 5						
N-NITROSODIPHENYLAMINE	UG/L				< 5	< 5						

FOOTNOTES : A-CONSTIT NOT ANALYZE B-VALUE >MDL, <RL

TABLE A.9

WATER QUALITY DATA

REUSED WATER MONITORING RESULTS

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW4 SJ97658 06/20/95		WEFI EW4 SJ97657 06/20/95		EFFL REUS SJ04770 12/04/95		EFFI REUS SJ04769 12/04/95	
GENERAL									
PH	PH	7.70				7.72			
CONDUCTIVITY	UMHOS/CM	2390				2580			
SUSPENDED SOLIDS	MG/L	3							
TOTAL DISSOLVED SOLIDS	MG/L	1913				2104			
TOTAL HARDNESS	MG/L CACO3	1106	B			1328	B		
TOTAL CYANIDE	MG/L CN	< 0.01				<0.002			
PHENOLS	MG/L C6H5OH	<0.002							
BORON	MG/L B	0.79				0.67			
GROSS ALPHA RADIOACTIVITY	PCI/L					11			
GROSS BETA RADIOACTIVITY	PCI/L					6.6			
ANIONS									
NITRATE NITROGEN	MG/L N	9.38	A			9.71	E		
SULFATE	MG/L SO4	889	A			1030	E		
CHLORIDE	MG/L CL	98.6	A			88.8	E		
TOTAL ALKALINITY	MG/L CACO3	347				374			
BICARBONATE ALKALINITY	MG/L CACO3					374			
TOTAL PHOSPHATE	MG/L PO4	0.34							
TOTAL SULFIDE	MG/L S	< 0.1				< 0.1			
FLUORIDE	MG/L F	1.08				1.32			
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	542				587	E		
MAGNESIUM-HARDNESS	MG/L CACO3	564				741	E		
SODIUM	MG/L NA	184				173	E		
POTASSIUM	MG/L K	6.8		6.7		3.9	E		
IRON	MG/L FE	0.19				0.09		< 0.02	
MANGANESE	MG/L MN	0.18		0.17		0.003		0.003	
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.1				< 0.1			
TOTAL BOD	MG/L O	2				< 0.7	C		
SOLUBLE BOD	MG/L O	1				< 0.7			
TOTAL COD	MG/L O	6	C			6			
SOLUBLE COD	MG/L O	6				4	C		
TOTAL ORGANIC CARBON	MG/L C	0.78				1.5			
OIL & GREASE	MG/L EXTRAC	< 0.9				< 0.9			
TOTAL ORGANIC HALOGEN(TOX	UG/L	11	D			8.5			

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW4 SJ97658 06/20/95	WEFI EW4 SJ97657 06/20/95	EFFL REUS SJ04770 12/04/95	EFFI REUS SJ04769 12/04/95
ORGANIC MATTER					
ACETIC ACID	MG/L	< 2.5			
PROPIONIC ACID	MG/L	< 2.0			
ISOBUTYRIC ACID	MG/L	< 2.0			
BUTYRIC ACID	MG/L	< 2.0			
ISOVALERIC ACID	MG/L	< 2.0			
VALERIC ACID	MG/L	< 2.0			
METALS					
ARSENIC	MG/L AS	.0010	.0010	<.0010	<.0010
BARIUM	MG/L BA	0.06	0.06	0.03	0.03
CADMIUM	MG/L CD	<0.003	<0.003	<0.003 E	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.04	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.02	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02 E	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.04	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L SE	.0078	.0078	.0078	.0076
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01 E	< 0.01
ZINC	MG/L ZN	0.11	0.1	< 0.01	0.02
ANTIMONY	MG/L SB	<.0010	<.0010	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005 E
THALLIUM	MG/L TL			<0.002	<0.002 E
TIN	MG/L SN			< 0.06	< 0.06
VANADIUM	MG/L V			< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L			< 0.1	
DINOSEB	UG/L			< 0.2	
THIONAZIN	UG/L			< 1	
DIMETHOATE	UG/L			< 1	
DISULFOTON	UG/L			< 1	
METHYL PARATHION	UG/L			< 1	
ETHYL PARATHION	UG/L			< 1	
PHORATE	UG/L			< 1	
PP'-DDE	UG/L			< 0.01	
PP'-DDD	UG/L			< 0.01	
PP'-DDT	UG/L			< 0.01	
ALPHA-BHC	UG/L			< 0.01	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW4 SJ97658 06/20/95	WEFI EW4 SJ97657 06/20/95	EFFL REUS SJ04770 12/04/95	EFFI REUS SJ04769 12/04/95						
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
LINDANE (GAMMA-BHC)	UG/L			< 0.01							
HEPTACHLOR	UG/L			< 0.01							
HEPTACHLOR EPOXIDE	UG/L			< 0.01							
ALDRIN	UG/L			< 0.01							
DIELDRIN	UG/L			< 0.01							
ENDRIN	UG/L			< 0.01							
TOXAPHENE	UG/L			< 0.5							
METHOXYCLOR	UG/L			< 0.01							
2,4-D(ACID)	UG/L			< 0.2							
2,4,5-TP(SILVEX)	UG/L			< 0.1							
AROCLOR 1242	UG/L			< 0.1							
AROCLOR 1254	UG/L			< 0.05							
BETA-BHC	UG/L			< 0.01							
DELTA-BHC	UG/L			< 0.01							
ENDOSULFAN I	UG/L			< 0.01							
ENDOSULFAN II	UG/L			< 0.01							
ENDOSULFAN SULFATE	UG/L			< 0.1							
ENDRIN ALDEHYDE	UG/L			< 0.01							
AROCLOR 1016	UG/L			< 0.1							
AROCLOR 1221	UG/L			< 0.1							
AROCLOR 1232	UG/L			< 0.1							
AROCLOR 1248	UG/L			< 0.1							
AROCLOR 1260	UG/L			< 0.1							
TECHNICAL CHLORDANE	UG/L			< 0.05							
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L			< 1							
BROMOCHLOROMETHANE	UG/L			< 1							
CHLOROPRENE	UG/L			< 1							
1,2-DIBROMO-3-CHLOROPROPA	UG/L			< 0.01							
T-1,4-DICHLORO-2-BUTENE	UG/L			< 1							
1,3-DICHLOROPROPANE	UG/L			< 0.3							
2,2-DICHLOROPROPANE	UG/L			< 1							
1,1-DICHLOROPROPENE	UG/L			< 1							
ISOBUTYL ALCOHOL	UG/L			< 10							
METHACRYLONITRILE	UG/L			< 10							
METHYL IODIDE	UG/L			< 1							
METHYLENE BROMIDE	UG/L			< 1							
PROPIONITRILE	UG/L			< 10							
1,1,1,2-TETRACHLOROETHANE	UG/L			< 1							

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW4 SJ97658 06/20/95	WEFI EW4 SJ97657 06/20/95	EFFL REUS SJ04770 12/04/95	EFFI REUS SJ04769 12/04/95
VOLATILE ORGANIC COMPOUNDS					
1,2,3-TRICHLOROPROPANE	UG/L			< 1	
METHYL METHACRYLATE	UG/L			< 10	
ETHYL METHACRYLATE	UG/L			< 5	
METHYLENE CHLORIDE	UG/L	< 1.0		< 1	
CHLOROFORM	UG/L	< 0.5		< 1	
1,1,1-TRICHLOROETHANE	UG/L	< 0.5		< 1	
CARBON TETRACHLORIDE	UG/L	< 0.3		< 0.3	
1,1-DICHLOROETHENE	UG/L	< 0.3		< 1	
TRICHLOROETHYLENE	UG/L	< 0.3		< 1	
TETRACHLOROETHYLENE	UG/L	< 0.3		< 1	
BROMODICHLOROMETHANE	UG/L	< 0.5		< 1	
DIBROMOCHLOROMETHANE	UG/L	< 0.5		< 1	
BROMOFORM	UG/L	< 0.5		< 1	
CHLOROBENZENE	UG/L	< 0.5		< 1	
VINYL CHLORIDE	UG/L	< 0.5		< 0.3	
O-DICHLOROBENZENE	UG/L	< 0.5		< 1	
M-DICHLOROBENZENE	UG/L	< 0.5		< 1	
P-DICHLOROBENZENE	UG/L	< 0.5		< 1	
1,1-DICHLOROETHANE	UG/L	< 0.3		< 1	
1,1,2-TRICHLOROETHANE	UG/L	< 0.3		< 1	
1,2-DICHLOROETHANE	UG/L	< 0.3		< 0.3	
BENZENE	UG/L	< 0.3		< 0.5	
TOLUENE	UG/L	< 0.3		< 1	
ETHYL BENZENE	UG/L	< 0.3		< 1	
VINYL ACETATE	UG/L			< 10	
O-XYLENE	UG/L			< 1	
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.3		< 1	
BROMOMETHANE	UG/L	< 2.5		< 1	
CHLOROETHANE	UG/L	< 2.5		< 1	
2-CHLOROETHYLVINYLETHER	UG/L	< 1.0		< 1	
CHLOROMETHANE	UG/L	< 2.5		< 1	
1,2-DICHLOROPROPANE	UG/L	< 0.5		< 1	
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 1	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5		< 1	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5		< 0.5	
ACROLEIN	UG/L	< 2.5		< 10	
ACRYLONITRILE	UG/L	< 1.0		< 10	
ACETONITRILE	UG/L			< 20	
FREON 12 (CCL2F2)	UG/L			< 1	
FREON 11 (CCL3F)	UG/L			< 1	
1,2-DIBROMOETHANE	UG/L			< 0.01	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW4 SJ97658 06/20/95	WEFI EW4 SJ97657 06/20/95	EFFL REUS SJ04770 12/04/95	EFFI REUS SJ04769 12/04/95
VOLATILE ORGANIC COMPOUNDS					
ACETONE	UG/L	< 5.0		< 10	
CIS-1,2-DICHLOROETHYLENE	UG/L			< 1	
2-BUTANONE	UG/L	< 1.0		< 10	
4-METHYL-2-PENTANONE	UG/L			< 10	
STYRENE	UG/L			< 1	
2,4,5-TRICHLOROPHENOL	UG/L			< 2	
M+P-XYLENE	UG/L			< 1	
CARBON DISULFIDE	UG/L CS2			< 1	
2-HEXANONE	UG/L C6H12O			< 5	
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L			< 4	
2-ACETYLAMINOFLUORENE	UG/L			< 3	
4-AMINOBIPHENYL	UG/L			< 5	
BENZYL ALCOHOL	UG/L			< 5	
P-CHLOROANILINE	UG/L			< 6	
CHLOROBENZILATE	UG/L			< 3	
DIALLATE	UG/L			< 4	
DIBENZOFURAN	UG/L			< 4	
2,6-DICHLOROPHENOL	UG/L			< 5	
P(DIMETHYLAMINO)AZOBENZEN	UG/L			< 4	
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			< 15	
3,3'-DIMETHYLBENZIDINE	UG/L			< 4	
M-DINITROBENZENE	UG/L			< 14	
DIPHENYLAMINE	UG/L			< 10	
ETHYL METHANESULFONATE	UG/L			< 4	
FAMPHUR	UG/L			< 1	
HEXACHLOROPROPENE	UG/L			< 20	
ISODRIN	UG/L			< 5	
ISOSAFROLE	UG/L			< 5	
KEPONE	UG/L			< 50	
METHAPYRILENE	UG/L			< 5	
3-METHYLCHOLANTHRENE	UG/L			< 13	
METHYL METHANESULFONATE	UG/L			< 11	
2-METHYLNAPHTHALENE	UG/L			< 5	
1,4-NAPHTHOQUINONE	UG/L			< 8	
1-NAPHTHYLAMINE	UG/L			< 2	
2-NAPHTHYLAMINE	UG/L			< 1	
O-NITROANILINE	UG/L			< 4	
M-NITROANILINE	UG/L			< 4	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW4 SJ97658 06/20/95	WEFI EW4 SJ97657 06/20/95	EFFL REUS SJ04770 12/04/95	EFFI REUS SJ04769 12/04/95
ACID-BASE NEUTRAL EXTRACTABLE					
P-NITROANILINE	UG/L			< 4	
N-NITROSODI-N-BUTYLAMINE	UG/L			< 15	
N-NITROSODIETHYLAMINE	UG/L			< 5	
N-NITROSOMETHYLETHYLAMINE	UG/L			< 6	
N-NITROSOPIPERIDINE	UG/L			< 5	
N-NITROSOPYRROLIDINE	UG/L			< 5	
5-NITRO-O-TOLUIDINE	UG/L			< 5	
PENTACHLOROBENZENE	UG/L			< 4	
PENTACHLORONITROBENZENE	UG/L			< 4	
PHENACETIN	UG/L			< 4	
P-PHENYLENEDIAMINE	UG/L			< 20	
PRONAMIDE	UG/L			< 5	
SAFROLE	UG/L			< 5	
1,2,4,5-TETRACHLOROBENZEN	UG/L			< 5	
2,3,4,6-TETRACHLOROPHENOL	UG/L			< 5	
O-TOLUIDINE	UG/L			< 5	
O,O,O-TRIETHYLPHOSPHOROTH	UG/L			< 5	
SYM-TRINITROBENZENE	UG/L			< 48	
ACENAPHTHENE	UG/L	< 20.0		< 2	
ACENAPHTHYLENE	UG/L	< 20.0		< 2	
ANTHRACENE	UG/L	< 20.0		< 2	
BENZIDINE	UG/L	<620.0		< 62	
BENZO(A)ANTHRACENE	UG/L	< 20.0		< 2	
BENZO(A)PYRENE	UG/L	< 3.0		< 0.3	
BENZO(B)FLUORANTHENE	UG/L	< 20.0		< 2	
BENZO(G.H.I.)PERYLENE	UG/L	< 10.0		< 1	
BENZO(K)FLUORANTHENE	UG/L	< 20.0		< 2	
BIS(2-CL-ETHOXY)METHANE	UG/L	< 20.0		< 2	
BIS(2-CHLOROETHYL)ETHER	UG/L	< 10.0		< 1	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 70.0		< 7	
DIETHYLHEXYL PHTHALATE	UG/L	< 10.0		< 1	
4-BROMOPHENYL PHENYLETHER	UG/L	< 20.0		< 2	
BUTYLBENZYL PHTHALATE	UG/L	< 20.0		< 2	
2-CHLORONAPHTHALENE	UG/L	< 30.0		< 3	
4-CHLOROPHENYLPHENYLETHER	UG/L	< 20.0		< 2	
CHRYSENE	UG/L	< 10.0		< 1	
DIBENZO(A,H)ANTHRACENE	UG/L	< 10.0		< 1	
1,2-DICHLOROBENZENE	UG/L	< 30.0			
1,3-DICHLOROBENZENE	UG/L	< 30.0			
1,4-DICHLOROBENZENE	UG/L	< 30.0			
3,3'-DICHLOROBENZIDINE	UG/L	<140.0		< 14	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EW4 SJ97658 06/20/95		WEFI EW4 SJ97657 06/20/95		EFFL REUS SJ04770 12/04/95		EFFI REUS SJ04769 12/04/95	
ACID-BASE NEUTRAL EXTRACTABLE									
DIETHYL PHTHALATE	UG/L	<	20.0			<	2		
DIMETHYL PHTHALATE	UG/L	<	20.0			<	2		
DI-N-BUTYL PHTHALATE	UG/L	<	10.0			<	1		
2,4-DINITROTOLUENE	UG/L	<	20.0			<	2		
2,6-DINITROTOLUENE	UG/L	<	20.0			<	2		
DI-N-OCTYL PHTHALATE	UG/L	<	20.0			<	2		
1,2-DIPHENYLHYDRAZINE	UG/L	<	20.0						
FLUORANTHENE	UG/L	<	20.0			<	2		
FLUORENE	UG/L	<	20.0			<	2		
HEXACHLOROBENZENE	UG/L	<	10.0			<	1		
HEXACHLOROBUTADIENE	UG/L	<	40.0			<	4		
HEXACHLOROCYCLOPENTADIENE	UG/L	<	300.0			<	30		
HEXACHLOROETHANE	UG/L	<	40.0			<	4		
INDENO(1,2,3-C,D)PYRENE	UG/L	<	20.0			<	2		
ISOPHORONE	UG/L	<	10.0			<	1		
NAPHTHALENE	UG/L	<	30.0			<	3		
NITROBENZENE	UG/L	<	20.0			<	2		
N-NITROSODIMETHYLAMINE	UG/L	<	10.0			<	1		
N-NITROSODI-N-PROPYLAMINE	UG/L	<	30.0			<	3		
PHENANTHRENE	UG/L	<	20.0			<	2		
PYRENE	UG/L	<	10.0			<	1		
2,3,7,8-TCDD	UG/L	<	30.0						
2-CHLOROPHENOL	UG/L	<	20.0			<	2		
1,2,4-TRICHLOROBENZENE	UG/L	<	40.0			<	4		
2,4-DICHLOROPHENOL	UG/L	<	20.0			<	2		
2,4-DIMETHYLPHENOL	UG/L	<	20.0			<	2		
2,4-DINITROPHENOL	UG/L	<	190.0			<	19		
2-METHYL-4,6DINITROPHENOL	UG/L	<	20.0			<	2		
2-NITROPHENOL	UG/L	<	30.0			<	3		
4-NITROPHENOL	UG/L	<	180.0			<	18		
4-CHLORO-3-METHYLPHENOL	UG/L	<	20.0			<	2		
PENTACHLOROPHENOL	UG/L	<	160.0			<	0.1		
PHENOL	UG/L	<	20.0			<	2		
2,4,6-TRICHLOROPHENOL	UG/L	<	20.0			<	2		
N-NITROSODIPHENYLAMINE	UG/L	<	20.0			<	2		
O-CRESOL	UG/L					<	4		
M+P CRESOL	UG/L					<	3		

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.10

WATER QUALITY DATA

QUALITY ASSURANCE/QUALITY CONTROL DATA

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ91248 01/30/95	BLNK TRIP SJ91275 01/31/95	BLNK TRIP SJ92686 03/01/95	BLNK TRIP SJ92692 03/01/95	BLNK TRIP SJ92855 03/06/95	BLNK TRIP SJ92868 03/06/95	BLNK TRIP SJ93486 03/17/95	BLNK TRIP SJ93507 03/17/95
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L			< 100	< 100	< 100	< 100	< 100	< 100
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROPRENE	UG/L			< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-DICHLOROPROPANE	UG/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,2-DICHLOROPROPANE	UG/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROPROPENE	UG/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ISOBUTYL ALCOHOL	UG/L			< 100	< 100	< 100	< 100	< 100	< 100
METHACRYLONITRILE	UG/L			< 10	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
PROPIONITRILE	UG/L			< 20	< 20	< 20	< 20	< 20	< 20
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL METHACRYLATE	UG/L			< 10	< 10	< 10	< 10	< 10	< 10
ETHYL METHACRYLATE	UG/L			< 10	< 10	< 10	< 10	< 10	< 10
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ91248 01/30/95	BLNK TRIP SJ91275 01/31/95	BLNK TRIP SJ92686 03/01/95	BLNK TRIP SJ92692 03/01/95	BLNK TRIP SJ92855 03/06/95	BLNK TRIP SJ92868 03/06/95	BLNK TRIP SJ93486 03/17/95	BLNK TRIP SJ93507 03/17/95
VOLATILE ORGANIC COMPOUNDS									
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L			< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L			< 200	< 200	< 200	< 200	< 200	< 200
ACRYLONITRILE	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
ACETONITRILE	UG/L			< 100	< 100	< 100	< 100	< 100	< 100
FREON 12 (CCL2F2)	UG/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M+P-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON DISULFIDE	UG/L CS2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-HEXANONE	UG/L C6H12O	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ97315 06/13/95	BLNK TRIP SJ97320 06/13/95	BLNK TRIP SJ97609 06/19/95	BLNK TRIP SJ97627 06/19/95	BLNK TRIP SJ97721 06/21/95	BLNK TRIP SJ97730 06/21/95	BLNK TRIP SJ98022 06/28/95	BLNK TRIP SJ98039 06/28/95
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L				< 1				
BROMOCHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L				< 1				
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L				< 0.3				
2,2-DICHLOROPROPANE	UG/L				< 1				
1,1-DICHLOROPROPENE	UG/L				< 1				
ISOBUTYL ALCOHOL	UG/L				< 10				
METHACRYLONITRILE	UG/L				< 10				
METHYL IODIDE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L				< 10				
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L				< 10				
ETHYL METHACRYLATE	UG/L				< 5				
METHYLENE CHLORIDE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L				< 1				
P-DICHLOROBENZENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ97315 06/13/95	BLNK TRIP SJ97320 06/13/95	BLNK TRIP SJ97609 06/19/95	BLNK TRIP SJ97627 06/19/95	BLNK TRIP SJ97721 06/21/95	BLNK TRIP SJ97730 06/21/95	BLNK TRIP SJ98022 06/28/95	BLNK TRIP SJ98039 06/28/95
VOLATILE ORGANIC COMPOUNDS									
BROMOMETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L				< 1				
CHLOROMETHANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L				< 10				
ACRYLONITRILE	UG/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L				< 20				
FREON 12 (CCL2F2)	UG/L				< 1				
FREON 11 (CCL3F)	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10.0	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ98353 07/07/95	BLNK TRIP SJ01358 09/13/95	BLNK TRIP SJ01366 09/13/95	BLNK TRIP SJ01552 09/18/95	BLNK TRIP SJ01565 09/18/95	BLNK TRIP SJ01603 09/19/95	BLNK TRIP SJ01614 09/19/95	BLNK TRIP SJ02247 10/03/95
VOLATILE ORGANIC COMPOUNDS									
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	1		< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ98353 07/07/95	BLNK TRIP SJ01358 09/13/95	BLNK TRIP SJ01366 09/13/95	BLNK TRIP SJ01552 09/18/95	BLNK TRIP SJ01565 09/18/95	BLNK TRIP SJ01603 09/19/95	BLNK TRIP SJ01614 09/19/95	BLNK TRIP SJ02247 10/03/95
VOLATILE ORGANIC COMPOUNDS									
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10		< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1		< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1		< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5		< 5

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ05108 12/11/95	BLNK TRIP SJ05118 12/11/95	BLNK TRIP SJ05130 12/11/95	BLNK TRIP SJ05166 12/12/95	BLNK TRIP SJ05177 12/12/95	BLNK TRIP SJ05569 12/21/95	BLNK TRIP SJ05576 12/21/95	BLNK TRIP SJ05579 12/21/95
VOLATILE ORGANIC COMPOUNDS									
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ05108 12/11/95	BLNK TRIP SJ05118 12/11/95	BLNK TRIP SJ05130 12/11/95	BLNK TRIP SJ05166 12/12/95	BLNK TRIP SJ05177 12/12/95	BLNK TRIP SJ05569 12/21/95	BLNK TRIP SJ05576 12/21/95	BLNK TRIP SJ05579 12/21/95
VOLATILE ORGANIC COMPOUNDS									
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

1996 Annual Water Quality Monitoring Report

WASTEWATER RECLAMATION
SOLID WASTE MANAGEMENT

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (310) 699-7411, FAX: (310) 695-6139

CHARLES W. CARRY
Chief Engineer and General Manager

May 29, 1997
File No. 31R-102.10B

Mr. Rodney Nelson
Head, Landfill Unit
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA. 91754-2156

Dear Mr. Nelson:

Puente Hills Landfill
1996 Water Quality Monitoring Annual Report
Order Nos. 93-062, 90-046, and 93-070
File No. 57-220, C.I. Nos. 2294 and 7336

Enclosed please find *1996 Water Quality Monitoring Annual Report for the Puente Hills Landfill.* If you have any questions regarding this report, please contact Dr. Chi-Chung Tang of this office.

I certify that all wastes deposited at the Puente Hills Landfill during 1996 were deposited in compliance with the requirements of the Los Angeles Regional Water Quality Control Board (RWQCB), and that no wastes were deposited outside of the boundaries of the waste management area as specified in the RWQCB's requirements. In addition, I certify that the Sanitation Districts have complied with all monitoring and reporting requirements which apply to the Puente Hills Landfill, pursuant to Order Nos. 93-062, 90-046, and 93-070; and Monitoring and Reporting Programs 2294 and 7336. All laboratory analyses performed as part of the required water quality monitoring program were conducted at laboratories certified for such analyses, and in accordance with current guideline procedures contained in SW-846 and approved by USEPA.

I declare, under penalty of perjury, that to the best of my knowledge the foregoing statements are true, complete, and correct. Executed on the 29 day of MAY, 1997, at Whittier, California.

Very truly yours,

Charles W. Carry

Thomas J. Le Brun
Division Engineer
Solid Waste Management Department

TJL:CJH:leh

1996 WATER QUALITY MONITORING ANNUAL REPORT FOR THE PUENTE HILLS LANDFILL

PREPARED BY

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
1955 WORKMAN MILL ROAD
WHITTIER, CALIFORNIA

MAY, 1996

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TABLES

EXHIBITS

FIGURES

LISTS OF TABLES, EXHIBITS, FIGURES, AND APPENDICES (CONTINUED)

APPENDIX

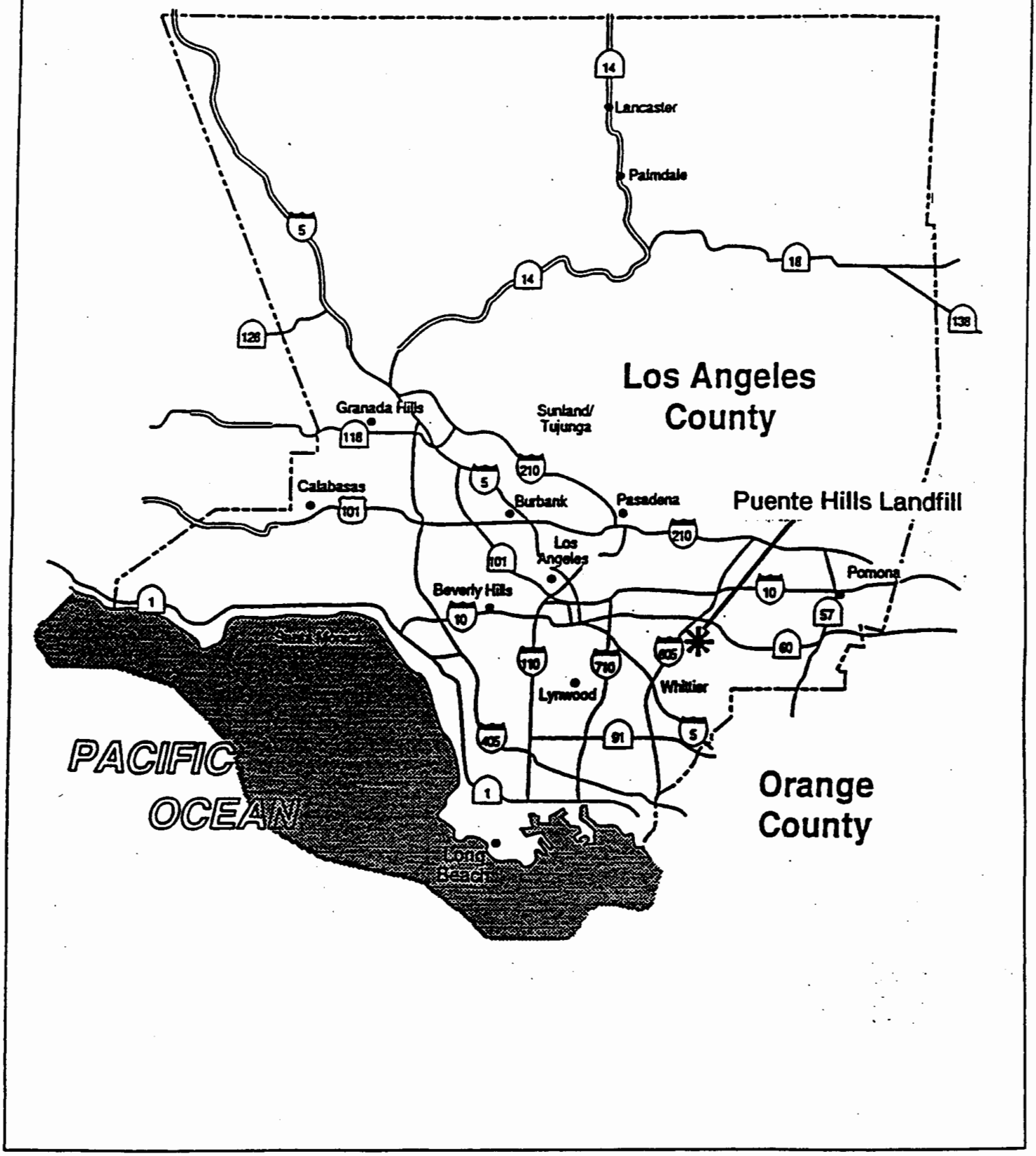
1996 WATER QUALITY MONITORING ANNUAL REPORT FOR THE PUENTE HILLS LANDFILL

1.0 INTRODUCTION

The County Sanitation Districts of Los Angeles County (Sanitation Districts) own and operate the Puente Hills Landfill as a Class III municipal solid waste disposal facility. The site is located in unincorporated Los Angeles County, southeast of the intersection of the Pomona (SR-60) and San Gabriel River (I-605) freeways, as depicted in Exhibit 1. The site address is 2800 Workman Mill Road, Whittier, California. As shown in Exhibit 2, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons.

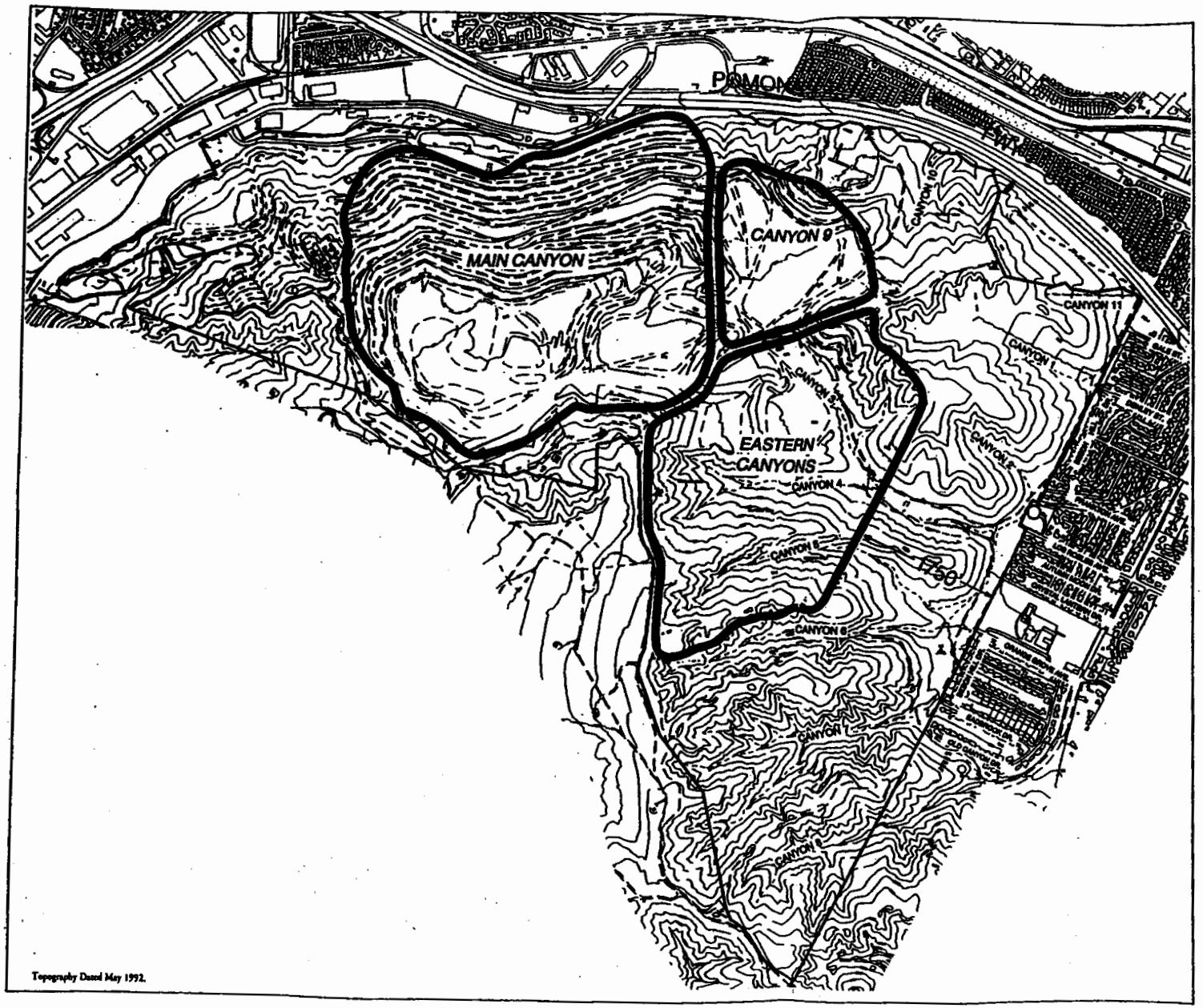
The Sanitation Districts operate the Puente Hills Landfill in accordance with permits, Waste Discharge Requirements (WDRs) and Monitoring and Reporting Programs (MRPs), issued by the Regional Water Quality Control Board, Los Angeles Region (RWQCB). The Puente Hills Landfill is currently subject to the following WDRs: (1) Order No. 93-062 which applies to all municipal solid waste disposal sites in the Los Angeles Region; (2) Order Nos. 90-046 and 91-035 which apply to the Main Canyon and Canyon 9 of the Puente Hills Landfill; and (3) Order Nos. 93-070 and 94-103 which apply to the Eastern Canyons expansion area of the Puente Hills Landfill. Groundwater monitoring requirements are specified in MRP No. 2294 for the Main Canyon and Canyon 9, most recently revised on December 30, 1996; and MRP No. 7336 for the Eastern Canyon expansion area issued on November 1, 1993.

This annual report is prepared to comply with Section 13B(2) of RWQCB Order No. 93-062. Included in this report is site information, waste disposal information, facility changes, all water quality monitoring data collected in 1996 and a discussion of these data. The report also includes a graphical presentation of the groundwater quality data collected during the period from 1992 to 1996.



Site Location

EXHIBIT 1



Topography Dated May 1992.

LEGEND

Property Boundary

Site Topography and Identified Site Areas

EXHIBIT 2

N

0 600 1200 FT

2.0 SITE INFORMATION

2.1 GENERAL INFORMATION

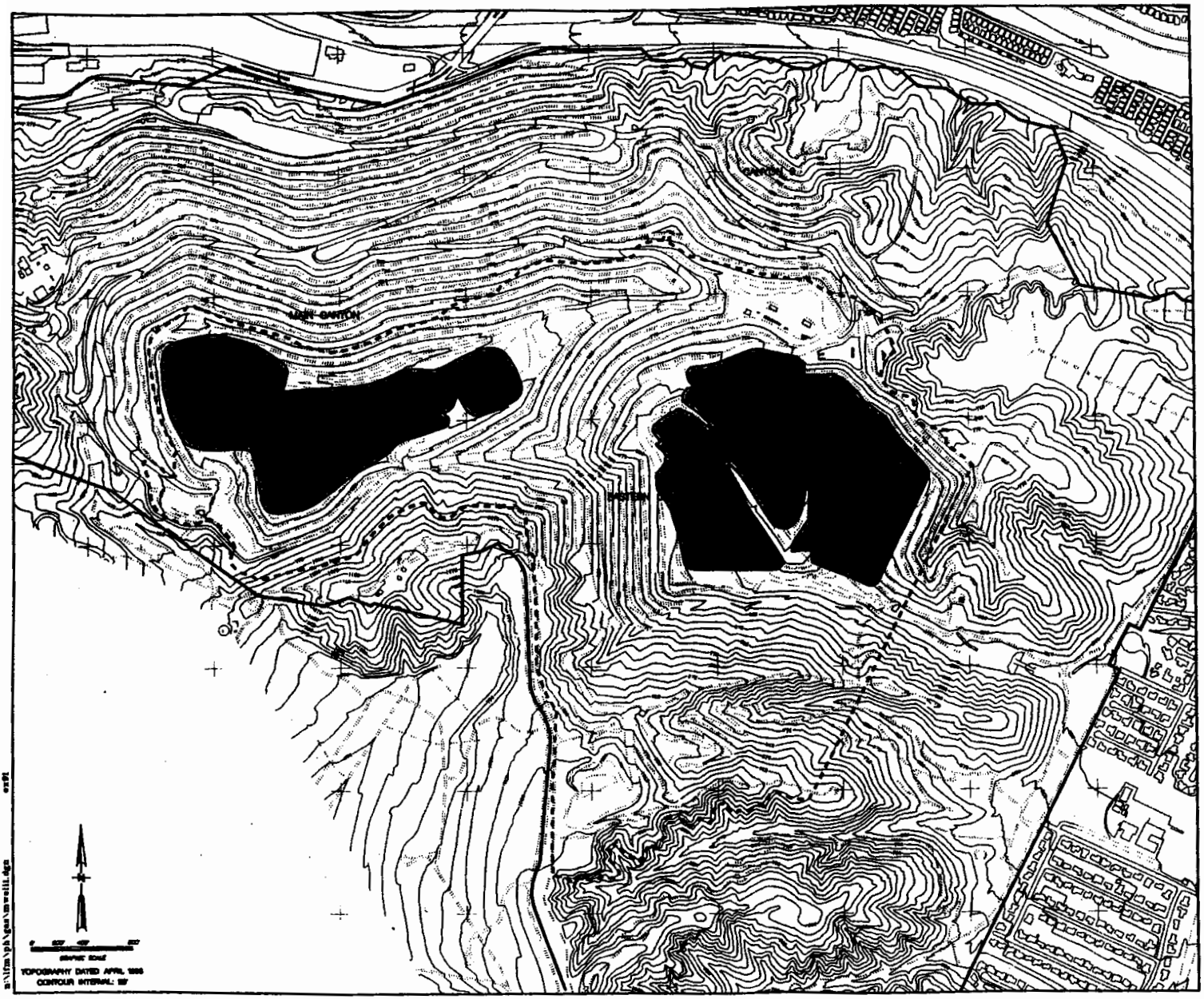
The Puente Hills Landfill is located immediately east of the San Gabriel River Freeway and immediately south of the Pomona Freeway on Workman Mill Road (refer to Exhibit 1). The principal land acquisition for what is now known as the Puente Hills Landfill was completed in 1970 with the Sanitation Districts' purchase of a 1,214 acre parcel of the Pellissier Ranch. This portion of the Pellissier Ranch included a landfill operation that began in 1957 by the San Jose Development Company. At the time of the 1970 purchase by the Sanitation Districts, approximately six million tons of waste had been placed on the property. Since June 1970, the Sanitation Districts have remained the sole owner and operator of the Puente Hills Landfill. In May 1981, an additional 151 acres of land along the north side of the site was purchased bringing the site acreage to its present 1,365 acres. The Main Canyon is the location of the initial refuse operations which began in 1957. Refuse operations for Canyon 9 began in 1990. In July 1995, refuse operations were expanded into the Eastern Canyons.

The placement of refuse at the site is pursuant to the Conditional Use Permit (CUP) issued by the Los Angeles County Regional Planning. Exhibit 3 shows the current permitted landfill operation boundaries under CUP 92-250(4) and the 1996 disposal areas. The Puente Hills Landfill received approximately 3.3 million tons of solid waste in 1996. The 1996 average daily disposal rate was approximately 10,600 tons. Table 1 summarizes the monthly solid waste disposal rate. The Sanitation Districts estimate that as of December 31, 1996, approximately 26.2 million tons of capacity remain at the Puente Hills Landfill under the current CUP. CUP 92-250(4) expires on November 1, 2003, at which time approximately 10 years of additional capacity will remain.

2.2 GEOLOGY AND HYDROGEOLOGY

2.2.1 Regional Hydrogeology

The Puente Hills Landfill is located on the northern tip of the western Puente Hills, which are part of the Santa Ana Mountains (see Exhibit 4). Hill slopes within the Puente Hills are usually rounded and gently sloping except where cut by canyons, where steep sided slopes commonly form. The western Puente Hills are bounded on the east and northeast by the San Jose Creek floodplain, on the north and northwest by the San Gabriel River floodplain, and on the southwest by interfingering alluvial fans forming from the numerous west to southwest flowing creeks. The rocks or geologic units of the western Puente Hills area, which include the Puente Hills Landfill, are considered non-water bearing by the Department of Water Resources because they do not contain or store groundwater in economically recoverable quantities. The western Puente Hills are a major barrier to groundwater flow and separate the Main San Gabriel Basin (north) from the Central Basin (south).


LEGEND
PROPERTY LINE
PERMITTED LANDFILL OPERATIONS LIMIT
1996 DISPOSAL AREAS
EXHIBIT 3
PERMITTED FILL AND 1996 DISPOSAL AREAS
PUENTE HILLS LANDFILL SANITATION DISTRICTS

The Main San Gabriel Basin is an important groundwater aquifer in the Los Angeles County. It consists of very permeable sands and gravel originating from the San Gabriel Mountains which are capable of transmitting groundwater at high rates. Recharge to the Main San Gabriel Basin occurs by percolation of rainfall and stream flow, principally from the San Gabriel River, Rio Hondo, and San Jose Creek. Artificial recharge also takes place in the Main San Gabriel Basin. Main San Gabriel Basin discharge occurs by groundwater pumping and outflow at the Whittier Narrows area.

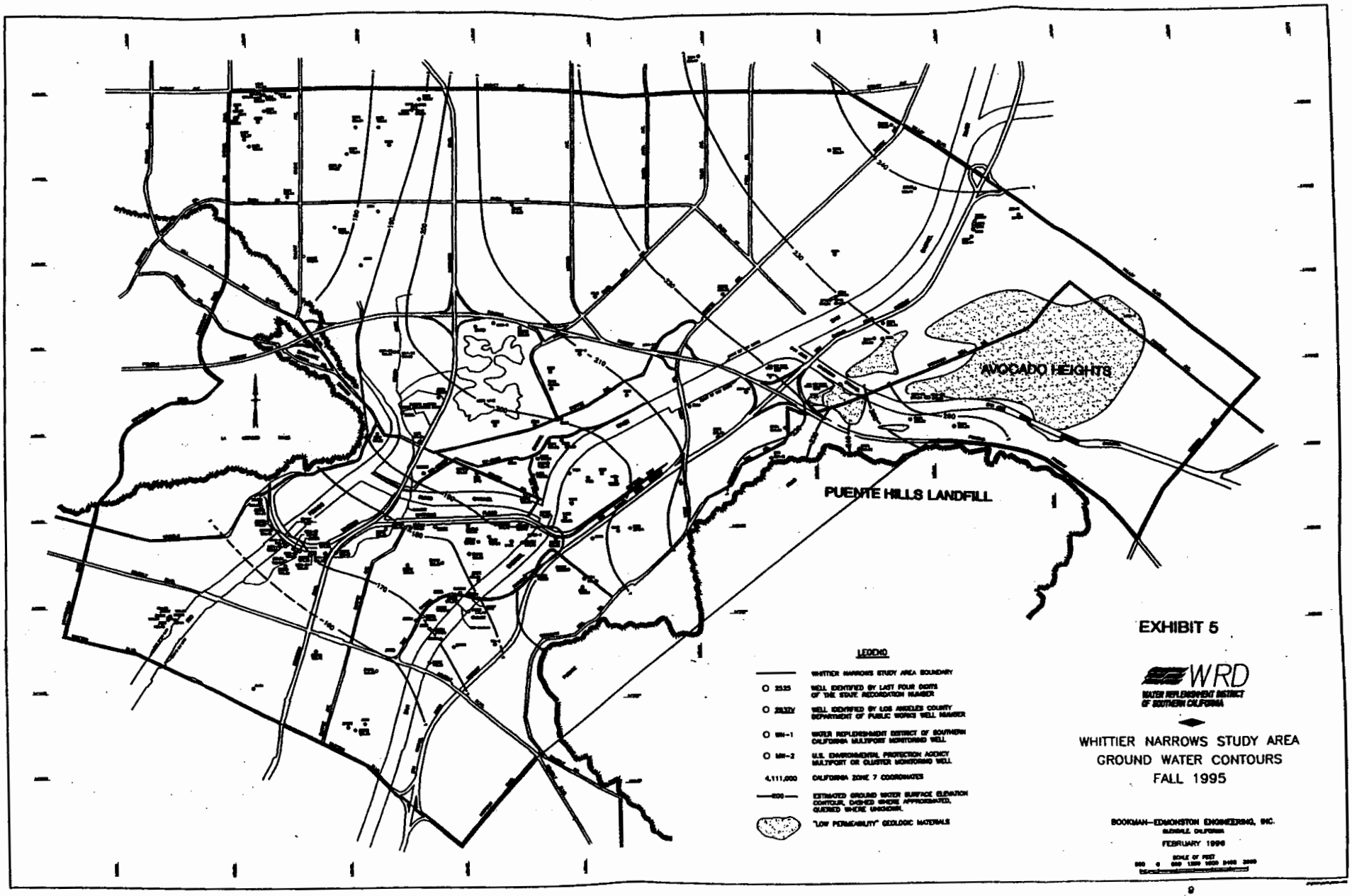
In addition to the Main San Gabriel Basin, the Central Basin aquifer also serves as a source of drinking water for a large portion of Los Angeles County. Groundwater contained within these two regional basins is physically separated by the Puente Hills, except in the western area where the Puente Hills end and the basins are connected by the Whittier Narrows gap. It is through the Whittier Narrows gap and San Gabriel River that the groundwater from the Main San Gabriel Basin drains into the Central Basin. Groundwater elevation contours in these adjacent groundwater basins are presented in Exhibit 5. As illustrated in Exhibit 5, the groundwater in the Main San Gabriel Basin near the landfill site flows in a westerly direction around the bedrock of the Puente Hills and then flows southwesterly towards Whittier Narrows. This flow eventually joins the southerly flow along the San Gabriel River.

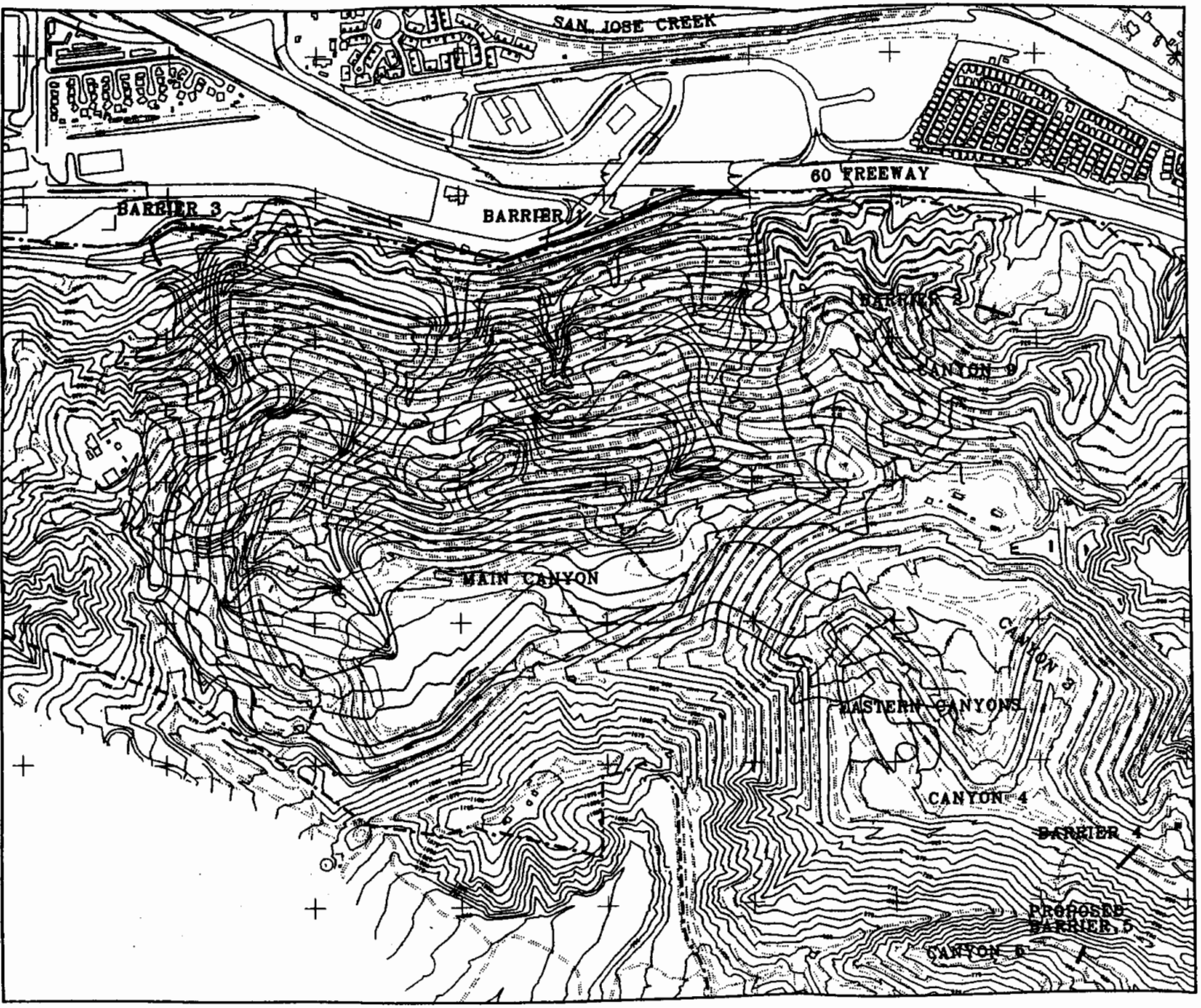
2.2.2 Site Geology

As described above, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons. Prior to landfilling activities, several canyons, oriented toward the north, existed in the Main Canyon and Canyon 9 areas as shown in Exhibit 6. Similarly, three east-west and one north-south trending ridgelines, separated by three east trending canyons (Canyons 3 and 4, Canyon 5, and Canyon 6) existed in the Eastern Canyons area prior to landfilling as shown in Exhibit 7.

The landfill site is underlain by a thick sequence of north-northwest dipping sedimentary marine bedrock units. Exhibits 8 and 9 show the general geologic conditions of the entire site and Eastern Canyons area, respectively. Unconsolidated surficial deposits which can be found overlying bedrock units at the site include artificial fill, alluvium, colluvium, and landslides which typically occur on north facing slopes due to the predominant north dipping bedrock. The distribution of surficial deposits has been modified as a result of grading operations associated with landfill development. Within the Eastern Canyons and Canyon 9 areas, surficial deposits and underlying bedrock have been or are being excavated to provide a suitable foundation for the construction of the underdrain and composite liner containment systems. Narrow alluvial channels outside the landfill's footprint remain generally unaltered.

From oldest to youngest, the bedrock units found at the site consist of the Sycamore Canyon member of the Puente Formation, and the Repetto and Pico members of the Fernando Formation. The Sycamore Canyon member outcrops in the southern portion of the Eastern Canyons and includes three subunits which are designated as: lower conglomerate (Tsc_1), siltstone and claystone with minor sandstone interbeds (Tss), and upper conglomerate (Tsc_2). The Repetto member outcrops in the


AVOCADO HEIGHTS
PUENTE HILLS LANDFILL
LEGEND
WHITTIER NARROWS STUDY AREA BOUNDARY
WELL IDENTIFIED BY LAST FOUR DIGITS OF THE STATE RECORDATION NUMBER
WELL IDENTIFIED BY LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS WELL NUMBER
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA MULTIPORT MONITORING WELL
U.S. ENVIRONMENTAL PROTECTION AGENCY MULTIPORT OR CLUSTER MONITORING WELL
CALIFORNIA ZONE 7 COORDINATES
ESTIMATED GROUND WATER SURFACE ELEVATION CONTOUR, DASHED WHERE APPROXIMATED, QUERIED WHERE UNKNOWN.
"LOW PERMEABILITY" GEOLOGIC MATERIALS
EXHIBIT 5
WRD
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
WHITTIER NARROWS STUDY AREA
GROUND WATER CONTOURS
FALL 1995
BOOKMAN-EDMONSTON ENGINEERING, INC.
GLENDALE CALIFORNIA
FEBRUARY 1996
SCALE OF FEET



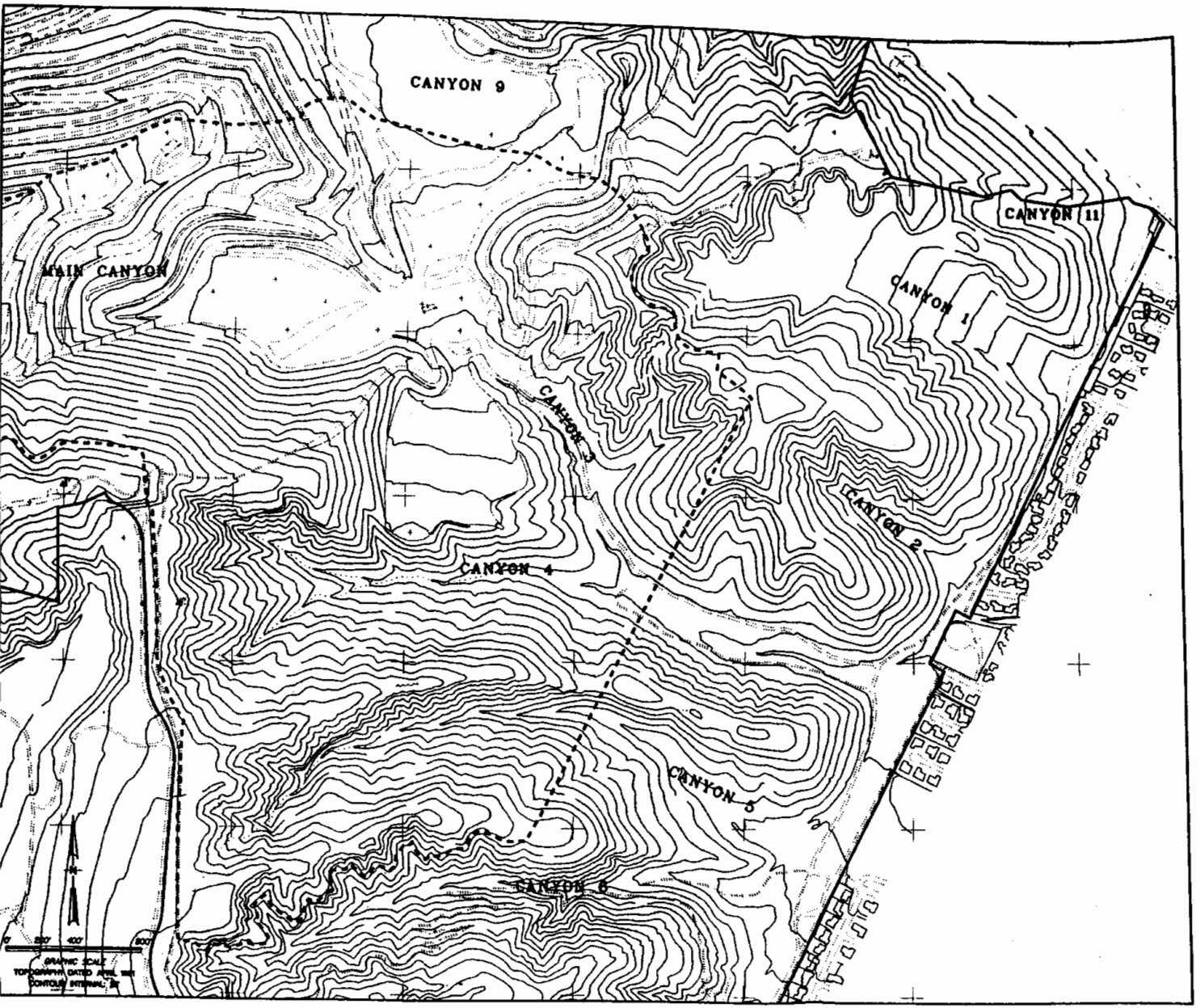
LEGEND

PROPERTY LINE

EXHIBIT 6

MAIN CANYON AND CANYON 9
TOPOGRAPHY PRIOR TO EXCAVATION

PUENTE HILLS LANDFILL
SANITATION DISTRICTS



LEGEND

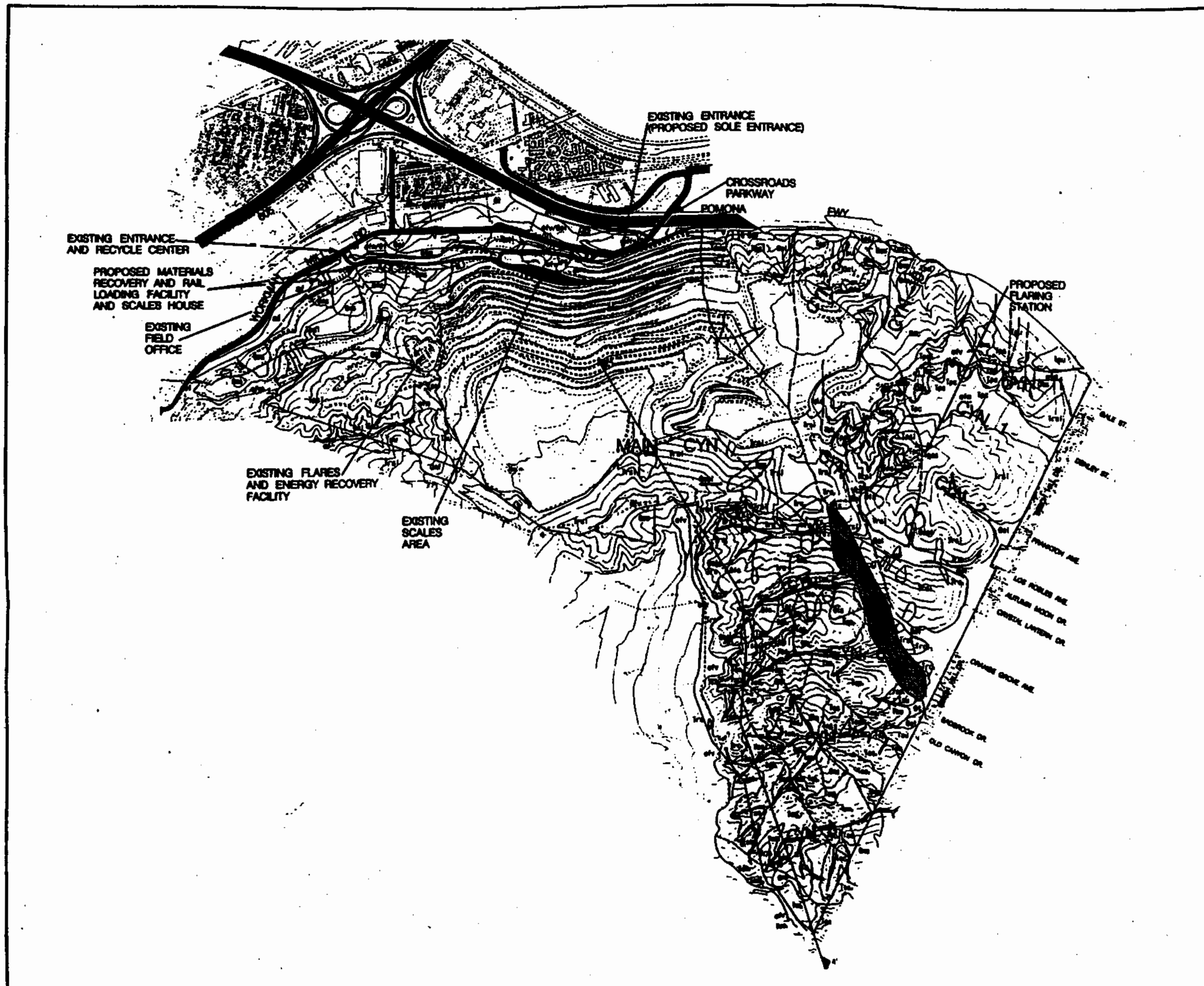
PROPERTY LINE

PERMITTED LANDFILL OPERATIONS AREA

EXHIBIT 7

EASTERN CANYONS TOPOGRAPHY PRIOR TO EXCAVATION

PUENTE HILLS LANDFILL
SANITATION DISTRICTS



Date of Topographic Survey 4-30-91.

Source: Sanitation Districts of Los Angeles County, 1992.

LEGEND

Period	Epoch	Symbol	Description
Quaternary	Holocene	af	Artificial Fill: v-veneer; m-massive
Quaternary	Holocene	Qm	Mass Movement Debris: c-colluvium; f-flow; s-slump
Quaternary	Holocene	Qal	Stream Alluvium
Quaternary	Pleistocene	Qt	Terrace, Fan or Older Alluvium
Tertiary	Pliocene	Tp	Pico Member, Fernando Formation: c-predominantly conglomerate some sandstone; ss-predominantly sandstone some conglomerate; si-siltstone and fine-grained sandstone; u-undifferentiated sandstone and conglomerate, and some sandstone
Tertiary	Pliocene	Tr	Repetto Member, Fernando Formation: ss-fine to medium grained sandstone some siltstone; cs-predominantly conglomerate, some sandstone; (1,2,-units oldest to youngest respectively); si-siltstone and fine grained sandstone
Tertiary	Upper Miocene	Ts	Sycamore Canyon Member, Puente Formation: c-conglomerate with thin lenses of sandstone; s-fine to coarse-grained sandstone with thin lenses of conglomerate; u-undifferentiated sandstone and conglomerate; (1,2,-units oldest to youngest respectively);

Surficial Deposit Contact

Bedrock Contact, dashed where inferred or questionable

Fault Contact, dashed where inferred or questionable dotted where concealed by surficial deposits; U and D apparent relative displacement up and down

Whittier-Heights Fault Zone

Site Geologic Map

EXHIBIT 8

central portion of the Eastern Canyons and underlies the southern portions of Canyon 9 and the Main Canyon. The Repetto member includes three subunits: a lower conglomerate unit (Trc_1), a siltstone unit (Trsi), and a upper conglomerate unit (Trc_2). Within the Trsi subunit, there are two small subunits ($Trss_1$ and $Trss_2$) that have distinct sandstone beds. The Pico member occurs at the surface in the northern portion of the site and underlies landfill material in the northern portion of the Main Canyon and Canyon 9. A small block of Pico member sandstone has also been mapped in the central portion of the Eastern Canyons area within the Whittier Heights fault zone. The Pico member in the Eastern Canyons area, where exposed, has been mapped as an undifferentiated subunit. The Pico member is made up of a conglomerate unit (Tpc), a sandstone unit (Tps), an undifferentiated conglomerate, sandstone, and siltstone unit (Tpu), and a siltstone unit (Tpsi).

Bedrock units have been displaced by the Whittier Heights fault zone that transects the eastern portion of the property and is the major structure feature of the site. The northwest-trending Whittier Heights Fault is a normal fault with the east side downthrown. Maximum vertical displacement on the fault is 3,800 feet. There has been no recent movement (within the last 11,000 years) on the fault within the site boundary. Secondary and apparently less continuous faulting is found elsewhere throughout the area on similar, generally north-south trends. As-built mapping in the northern portion of the Eastern Canyons demonstrates that the main strand of the Whittier Heights zone is a narrow trace of slickensided clay gouge where Repetto member siltstone is on both sides of the fault. This trace widens southward into several splays in the ridge between Canyons 4 and 5, where it apparently incorporates slivers of the Pico member of the Fernando Formation between juxtaposed upper and lower portions of the Repetto member of the Fernando Formation. Investigations performed by the Sanitation Districts' consultants indicate that portions of the Whittier Heights fault zone may impede groundwater flow in the expansion area.

2.2.3 Site Hydrogeology

Groundwater flow regimes at the site have been characterized by Levine Fricke (1994), Earth Tech (1995), ENVIRON Corporation (1996), IT Corporation (1996), and Dames & Moore (1997). Results obtained from these studies have been used to update the hydrogeologic description of the site previously contained in Geotechnical Consultants (1987) and LeRoy Crandall (1981). It should be recognized that groundwater encountered at the site does not constitute an aquifer in the traditional sense due to relatively low hydraulic conductivities. The geologic formations present at the site are more accurately classified as aquitards in relationship to the San Gabriel Groundwater Basin. However, the term "aquifer" is used in the following discussion according to the terminology used in Chapter 15 and Subtitle D.

2.2.3.1 Main Canyon and Canyon 9

Alluvial materials that formed in the original five canyon bottoms in the Main Canyon and Canyon 9 areas have the potential for groundwater outflow (see Exhibit 6 for topography prior to excavation). The Sanitation Districts have installed three subsurface cement-bentonite barriers downgradient of the landfill to control alluvial groundwater flow from these historic canyons.

Barriers 1 and 3 have been installed along the north side of the Main Canyon. Although no significant alluvial groundwater occurs in the Canyon 9 area, Barrier 2 was installed to sever potential alluvial flow in the historic drainage in this area. Each barrier is equipped with groundwater extraction wells to remove water from behind the barrier. Exhibit 10 shows the location of Barriers 1, 2, and 3 and the extraction wells upgradient of each barrier.

A detailed discussion of the groundwater flow regimes in the Main Canyon and Canyon 9 is included in *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill, Whittier California* (ENVIRON Corporation, July 1996). The following sections summarize the key findings of this report.

Barrier 1

To simplify this hydrogeologic discussion, Barrier 1 has been divided into four sections. These sections are named western, mid-western, mid-eastern, and eastern portions and are approximately 700, 600, 550, and 550 feet in length, respectively (see Exhibit 10).

The uppermost aquifer in the western Barrier 1 area occurs under unconfined conditions in fill and weathered siltstone. It has a mean hydraulic conductivity of 6.3×10^{-4} cm/sec and average transmissivity of 493 gallons per day per foot (gpd/ft). The uppermost aquifer is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area.

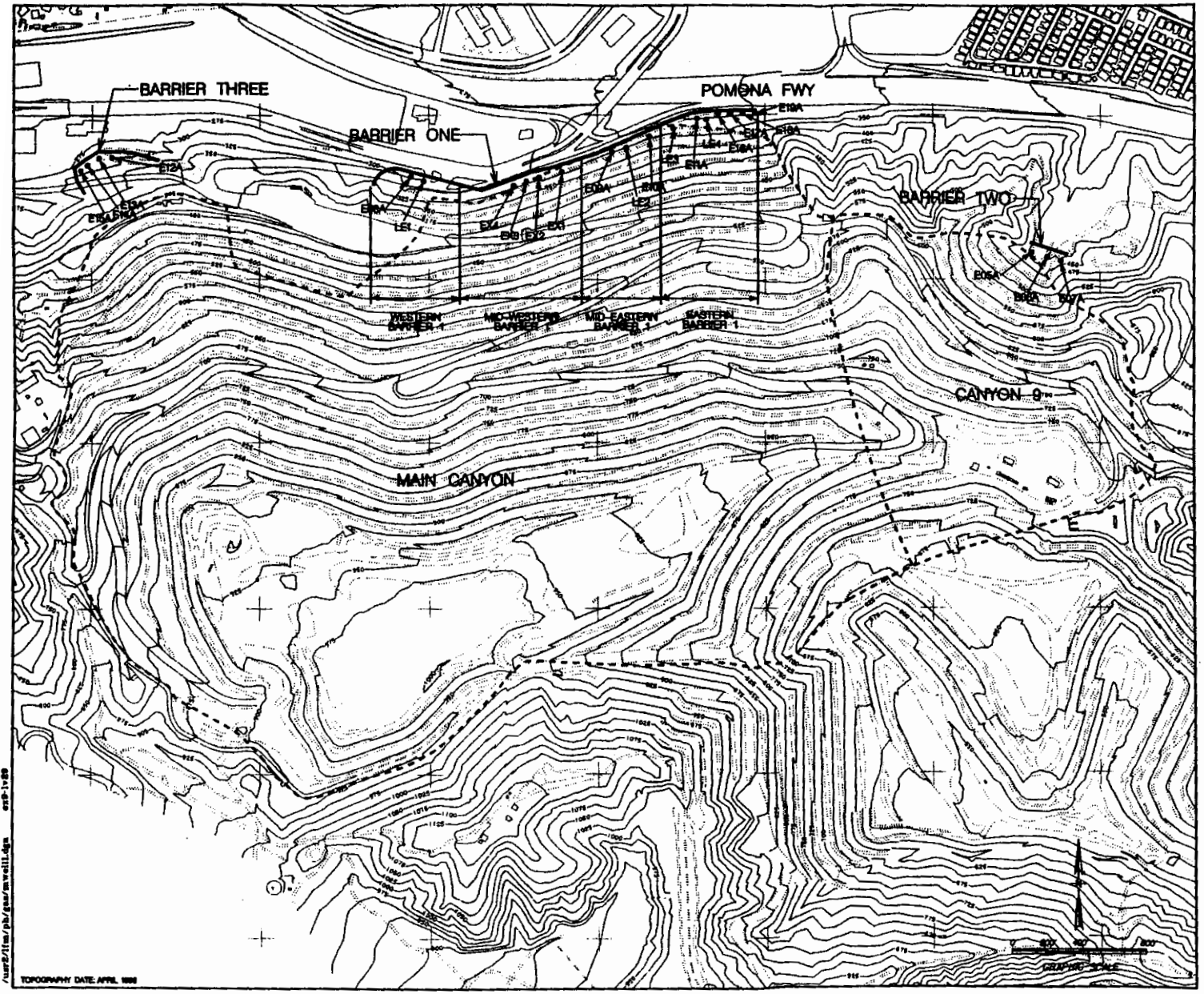
The uppermost aquifer in the mid-western Barrier 1 area is discontinuous, unconfined, and occurs in fill, alluvium and weathered siltstone. The uppermost aquifer is not productive and has an estimated transmissivity of less than approximately 67 gpd/ft. The uppermost aquifer is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area.

The uppermost aquifer in the mid-eastern Barrier 1 area occurs in alluvium under unconfined conditions. The uppermost aquifer is not productive. It is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area.

The uppermost aquifer in the eastern Barrier 1 occurs in sandstone and conglomerate units of the Pico Formation under either unconfined or semiconfined conditions. It is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area. The hydraulic conductivity of the uppermost aquifer ranges from 3.9×10^{-4} to 1.8×10^{-3} cm/sec and the average transmissivity ranges from 857 to 2,097 gpd/ft.

Barrier 2

This area is underlain by unconsolidated fill, alluvium, and Pico Formation siltstone, sandstone, and conglomerate. The uppermost aquifer occurs in sandstone and conglomeratic



LEGEND

- EXISTING SUBSURFACE BARRIER
- EXISTING EXTRACTION WELL
- LIMIT OF CURRENT FILL AREA: MAIN CANYON, CANYON 9

EXHIBIT 10

PUENTE HILLS LANDFILL

MAIN CANYON & CANYON 9

EXISTING SUBSURFACE BARRIERS AND EXTRACTION WELL SYSTEMS

sandstone units under confined or semiconfined conditions. The uppermost aquifer has a mean hydraulic conductivity of 1.9×10^{-4} cm/sec and an average transmissivity of 60 gpd/ft.

The uppermost aquifer is confined above and below by Pico Formation siltstone, which acts as an aquitard to groundwater flow in this area. The Pico Formation siltstone has a hydraulic conductivity less than 4.9×10^{-6} cm/sec.

Barrier 3

This area is underlain by unconsolidated fill, alluvium, and Pico Formation siltstone. Alluvial thicknesses are greatest near the center of the barrier and decrease toward the sides of the former canyon. The alluvium thins to the northwest. The alluvium consists of an upper layer of silts and clays that overlies a sand and silty sand unit.

The uppermost aquifer occurs in the sand and silty sand alluvium unit under confined conditions. It is confined above by alluvial silts and clays and below by Pico Formation siltstone; both units have hydraulic conductivities in the 10^{-6} cm/sec range. The mean hydraulic conductivity and average transmissivity of the uppermost aquifer are 7.7×10^{-3} cm/sec and 3,283 gpd/ft, respectively.

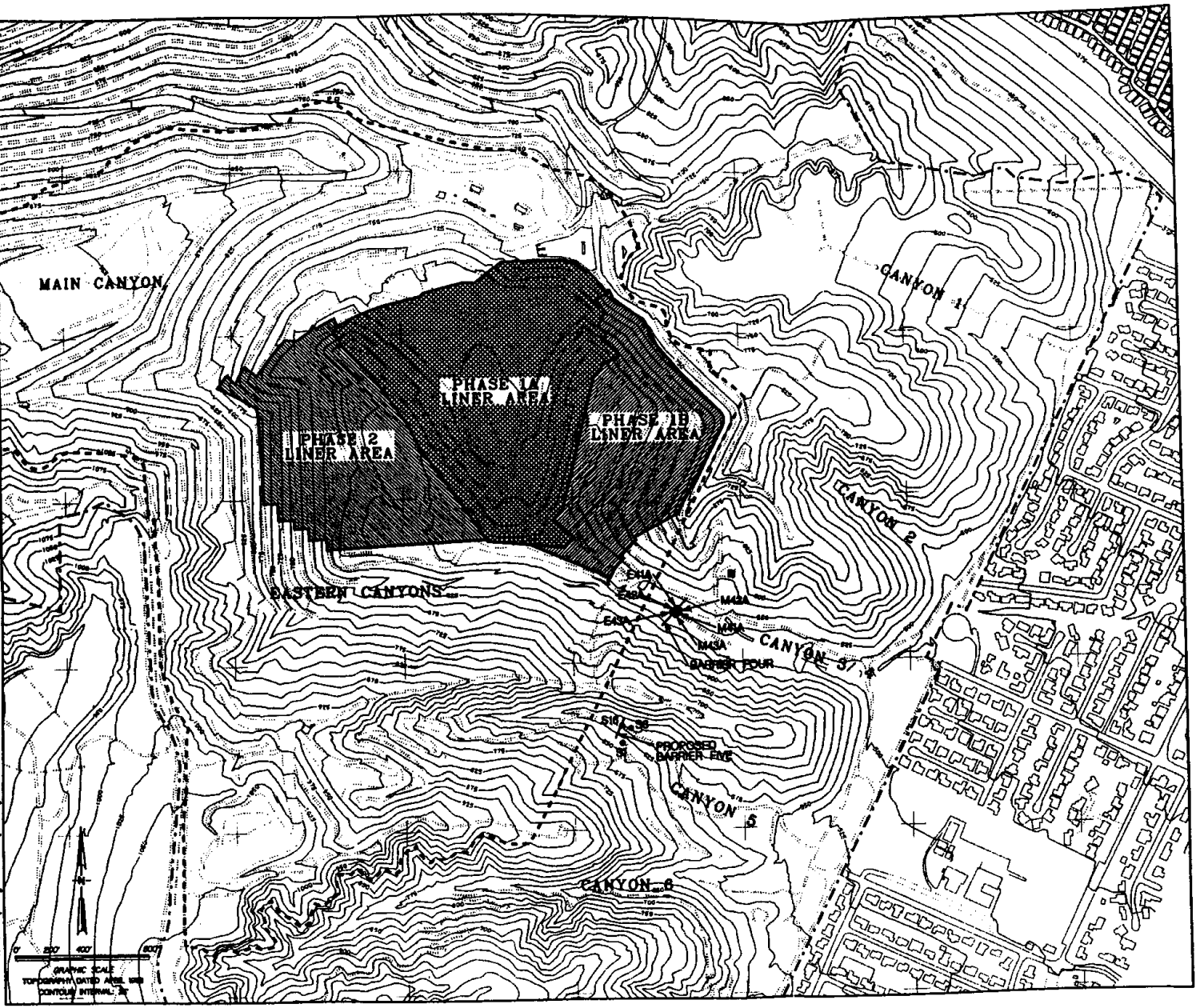
2.2.3.2 Eastern Canyons Area

During 1996, Dames & Moore conducted an extensive hydrogeologic study in the Eastern Canyons area. This study determined that, in general, groundwater encountered in the Eastern Canyons area flows in a pattern which mimics surface topography. Water level elevation data collected for this area fit this pattern, which shows groundwater flowing from ridges towards canyons. Thus, most rainfall which infiltrates to the bedrock across the Eastern Canyons will subsequently flow toward and discharge to canyon alluvium. Some groundwater may flow toward canyons but remain within bedrock units beneath canyon alluvium as it flows downgradient.

As described earlier, a number of canyons existed in the Eastern Canyons area prior to grading modifications and landfill development (Exhibit 7). Before landfilling activities commenced in Canyons 3 and 4, the Sanitation Districts installed subsurface Barrier 4 to control alluvial groundwater flow. Barrier 4 is equipped with three groundwater extraction wells that remove water from behind the barrier. As landfill development proceeds to the south, subsurface Barrier 5 will be installed to control potential alluvial groundwater flow in Canyon 5. Exhibit 11 shows the locations of Barrier 4 and proposed Barrier 5.

Barrier 4

Levine-Fricke (1994) and Earth Tech (1995) determined that this area is underlain by artificial fill, alluvium, and bedrock of the Repetto member of the Fernando Formation. The Repetto member of the Fernando Formation consists predominantly of claystone. The uppermost aquifer occurs in the



LEGEND

- PROPERTY LINE
- PERMITTED LANDFILL OPERATION AREA
- EXTRACTION WELL
- BARRIER 4 MONITORING WELL
- BARRIER 5 PIEZOMETERS

EXHIBIT 11

EASTERN CANYONS
LANDFILL AREA

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

conductivity of 3.6×10^{-3} cm/sec and an average transmissivity of 1,533 gpd/ft. It is confined below by Repetto member claystone. Packer testing results indicate that the Repetto member claystone has an average hydraulic conductivity of 7.1×10^{-7} cm/sec.

Proposed Barrier 5

IT Corporation (1996) determined that this area is underlain by alluvium, landslide deposits, and Sycamore Canyon member siltstone and claystone. The uppermost aquifer during IT Corporation's study occurred under unconfined conditions within the landslide deposits and the weathered horizon of the Sycamore Canyon bedrock underlying the alluvium. The uppermost aquifer was estimated to have a mean hydraulic conductivity of 6.5×10^{-5} cm/sec and an average transmissivity of 27 gpd/ft. It is confined below by Sycamore Canyon bedrock.

2.3 WATER QUALITY PROTECTION SYSTEMS

The water quality protection systems currently installed at the Puente Hills Landfill include four cement bentonite subsurface barriers with their canyon water extraction system, and two composite liner systems. The purpose for the water quality protection systems is to mitigate the potential for any landfill affected groundwater to migrate offsite. The water protection systems for each of the landfill areas are discussed below.

Main Canyon

The groundwater protection systems currently installed at the Main Canyon include Barriers 1 and 3 and their corresponding extraction systems. The locations of the subsurface barriers is shown in Exhibit 10. Subsurface Barrier 1 was installed in 1980 by Bencor Corporation of America. The Sanitation Districts commissioned LeRoy Crandall and Associates to develop design depths for the barrier system and to perform third party construction quality assurance (CQA) for the installation of the barrier. The barrier was designed and installed into bedrock to cut-off alluvial pathways which could serve as a potential conduit for migration from the landfill. The design hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. A total of sixteen extraction wells have been installed to remove canyon water that collects upgradient of Barrier 1. The design and construction of Barrier 1 was approved by the RWQCB and the State Water Resources Control Board under a Federal Clean Water Grant.

During 1996, the Sanitation Districts enhanced the groundwater extraction at Barrier 1 by installing four additional extraction wells (E16A, E17A, E18A, and E19A) upgradient of the barrier (see Exhibit 10). The Sanitation Districts informed the RWQCB of its intent to install these wells in a letter dated July 16, 1996; and the proposal was approved by the RWQCB in a letter dated July 16, 1996. The Sanitation Districts' consultant, Dames & Moore, installed the extraction wells as described in *Installation of Groundwater Extraction Wells, Barrier 1, Puente Hills Landfill*, dated October 30, 1996.

The subsurface Barrier 3 was installed in 1993 by Foster Wheeler Environmental Services. The Sanitation Districts retained the Earth Technology Corporation to perform third party construction quality assurance for the installation of the barrier. The barrier was installed at least five feet into unweathered bedrock to cut-off alluvial and weathered bedrock pathways which could allow migration from the Main Canyon. The hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. Barrier 3 is equipped with four extraction wells to remove water that collects behind the barrier.

Canyon 9

The groundwater protection systems currently installed at Canyon 9 include Barrier 2 with its corresponding extraction system and a composite liner system. The locations of the subsurface barriers is shown in Exhibit 10. Subsurface Barrier 2 was installed in 1988 by Case International. The Sanitation Districts commissioned Geofon Incorporated to perform third party construction quality assurance for the barrier installation. The barrier was designed and installed at least five feet into unweathered bedrock to cut-off alluvial and weathered bedrock pathways which could allow migration from Canyon 9. Barrier 2 is equipped with three extraction wells installed to remove any alluvial water that collects behind the barrier. No water has been observed in the extraction system since its installation.

The composite liner system for Canyon 9 was installed in 1989 and 1990 prior to refuse placement in Canyon 9. The Canyon 9 composite liner system consists of the following components: the subdrain, the clay liner (minimum one foot thick with a hydraulic conductivity of less than 1×10^{-6} cm/sec), the synthetic liner (80 mil high density polyethylene), the liquids collection and removal system (LCRS), the geotextile filter, and the protective soil layer. These components, together, effectively prevent landfill affected liquids from entering the underlying strata. All components of the Canyon 9 composite liner system were subjected to a series of rigorous quality assurance tests to ensure that all materials used met the design criteria and specifications.

Eastern Canyons

The groundwater protection systems currently installed at the Eastern Canyons include Barrier 4 and its corresponding extraction system and a composite liner system. The locations of these systems are shown in Exhibit 11. Subsurface Barrier 4 was installed in 1995 by Clarke Contracting Corporation. The Sanitation Districts commissioned Earth Tech, Inc. to perform geologic observation and construction quality assurance services for the installation of the barrier. The barrier was designed and installed at least five feet into unweathered bedrock to cut-off alluvial and weathered bedrock pathways which could allow migration from Canyons 3 and 4. Barrier 4 is equipped with three extraction wells to remove any water that collects behind the barrier.

The composite liner system for the Eastern Canyons area is being installed in phases. The existing liner areas for the Eastern Canyons area are shown in Exhibit 11 and include Phase 1A, Phase 1B, and Phase 2. The design specifications for the Eastern Canyons composite liner system

exceed the Subtitle D requirements described in RWQCB Order No. 93-062, §7. The Eastern Canyons composite liner system consists of the following components: the subdrain, the clay liner (minimum two foot thick with a hydraulic conductivity of less than 1×10^{-7} cm/sec), the synthetic liner (80 mil high density polyethylene), the LCRS, the geotextile filter, and the protective soil layer. The design specifications for each phase of the liner system were approved by the RWQCB prior to construction. The construction quality assurance for each phase of the liner system was performed by a Sanitation Districts' consultant. The RWQCB inspected and approved each liner system before waste placement.

3.0 WATER QUALITY MONITORING PROGRAMS

The following water quality monitoring programs were implemented at the Puente Hills Landfill during 1996: groundwater monitoring, surface water monitoring, monitoring of liquid collection and removal systems (LCRS) of the Canyon 9 and Eastern Canyons liner systems, monitoring of reused water, and monitoring of treated incinerator ash and dewatered biosolids disposed of at the landfill.

3.1 GROUNDWATER

Groundwater monitoring follows the programs described in *Puente Hills Landfill Water Quality Monitoring System Report for Compliance with RWQCB Order No. 93-062* (herein referred to as the Subtitle D Report) and the requirements in Title 23, the California Code of Regulations (23 CCR), Chapter 15, Article 5. The Subtitle D Report was prepared by the Sanitation Districts to comply with both federal and state requirements on groundwater monitoring and was submitted to the RWQCB on August 9, 1994. Implementation of the programs proposed in the Subtitle D Report began in the fourth quarter of 1994.

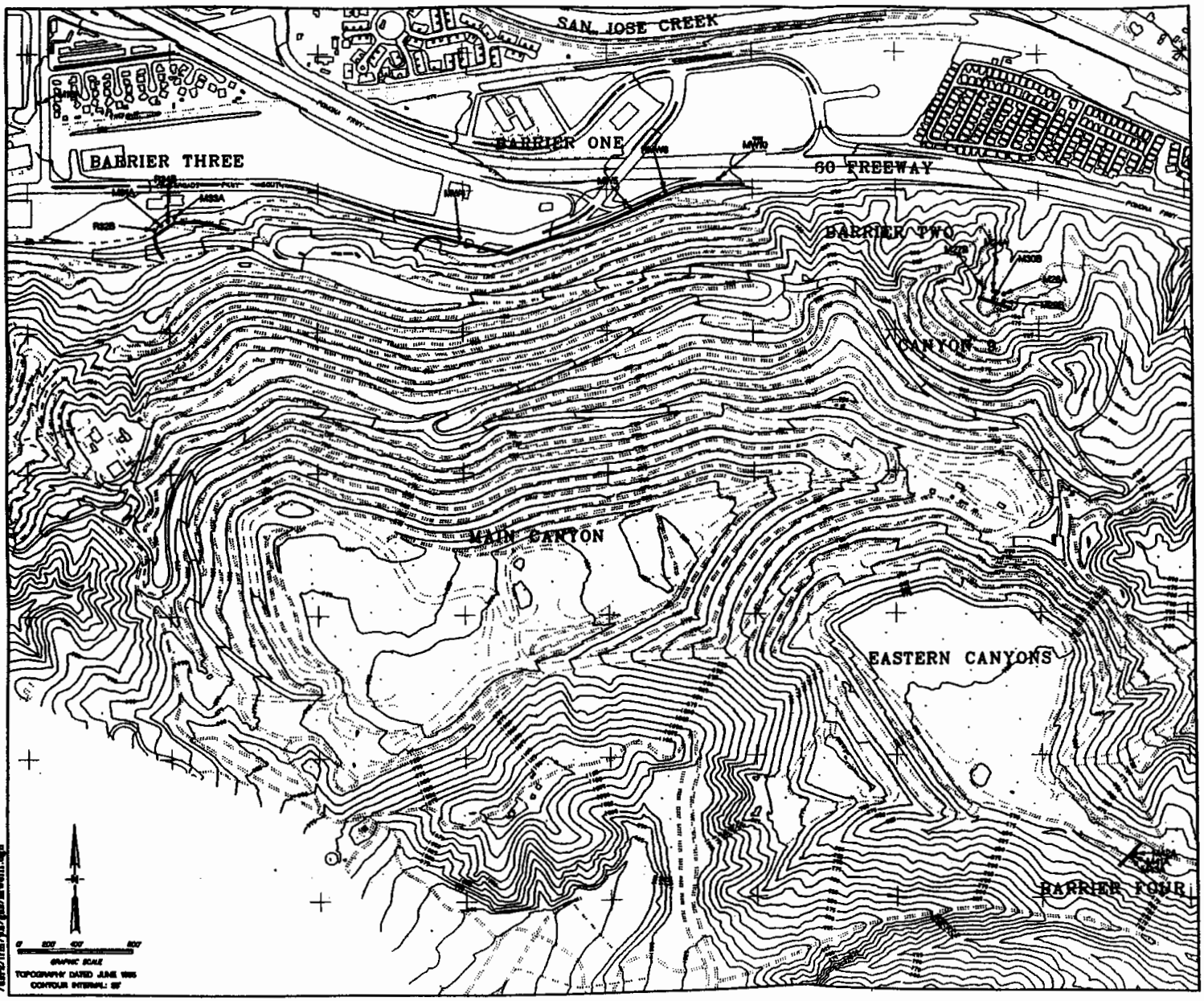
At the Puente Hills Landfill, a groundwater detection monitoring program is in place for Canyon 9, Canyons 3/4 in the Eastern Canyons area, and portions of the Main Canyon. The portions of the Main Canyons not in a detection monitoring program are in a groundwater evaluation monitoring program. Specifically, these areas were monitored by well RMW6 at Barrier 1 and wells M31A and M33A at Barrier 3. The following sections discuss these monitoring programs.

3.1.1 Detection Monitoring

3.1.1.1 Monitoring System

The groundwater detection monitoring system at the Puente Hills Landfill is specified by the RWQCB in MRP No. 2294, for the Main Canyon and Canyon 9, and in a September 14, 1995 letter to the Sanitation Districts for the portions of the Eastern Canyons where landfill operations have begun. The Sanitation Districts proposed in the Subtitle D Report to exclude vadose zone lysimeters, which were specified in MRP No. 2294, from the monitoring system since lysimeters do not provide additional information about groundwater conditions. Three wells specified in MRP No. 2294 as detection monitoring wells, RMW6, M31A, and M33A, detected volatile organic compounds (VOCs) in December 1994. As a result, these wells are no longer part of the detection monitoring system and are considered evaluation monitoring wells. They are discussed later in Section 3.1.2.1.

The groundwater detection monitoring system at the Puente Hills Landfill for 1996 included the following wells: MW4, MW5, and MW10 downgradient of Barrier 1; wells M24A, M27B, M28A, M29B, and M30B downgradient of Barrier 2; wells R32B and R34B downgradient of Barrier 3, and wells M41A, M42A, and M43A downgradient of Barrier 4. The locations of these monitoring wells are shown on Exhibit 12. These detection monitoring wells represent the compliance



LEGEND

- PROPERTY LINE
- MONITORING WELL
- EXISTING SUBSURFACE BARRIER

EXHIBIT 12

GROUNDWATER QUALITY MONITORING LOCATIONS

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

monitoring points where water quality is compared with background conditions to determine whether there is a release from the landfill.

Main Canyon

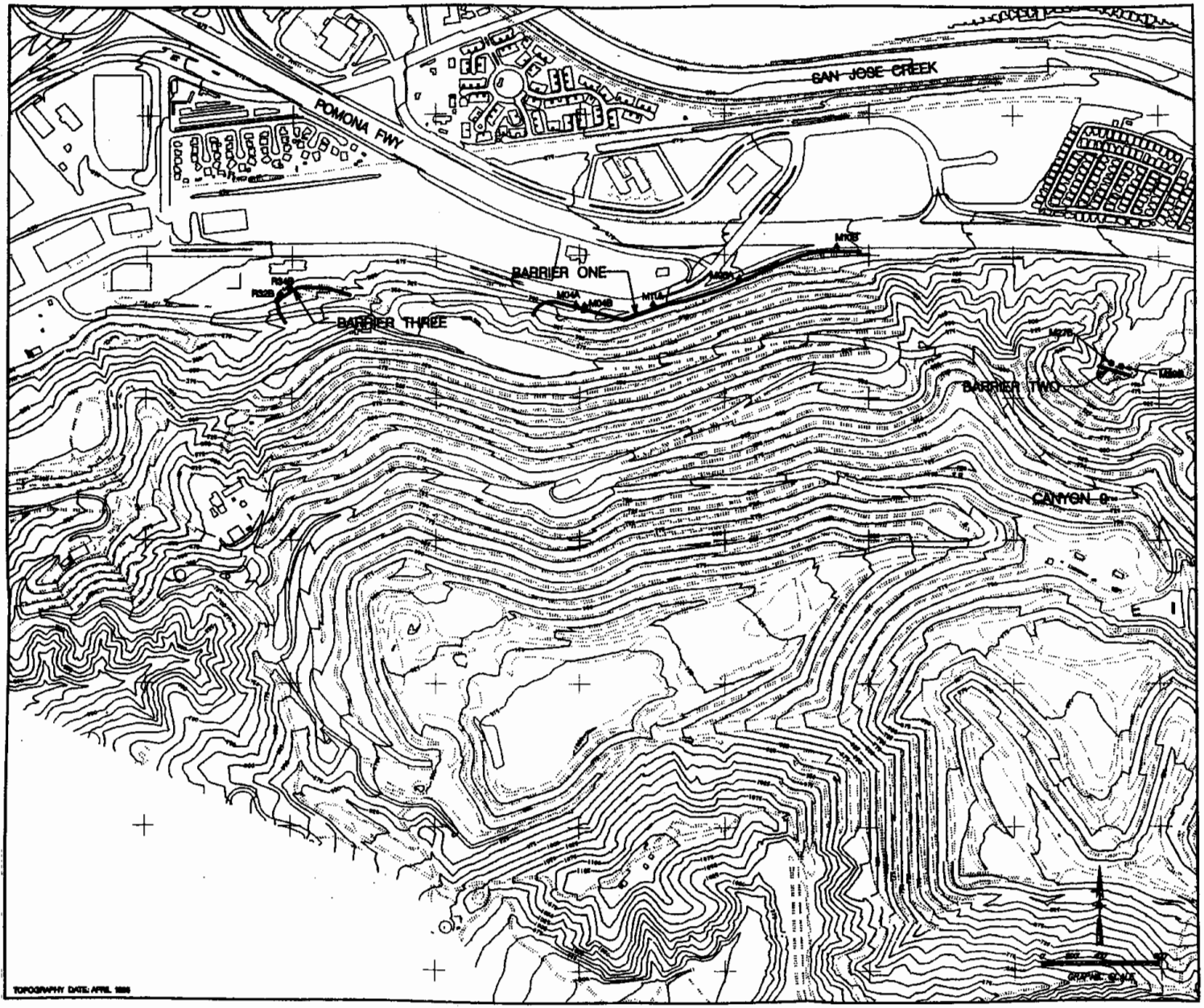
Barrier 1 downgradient detection monitoring wells include MW4, MW5, and MW10. No water has been observed in well MW10 since its installation. These wells are situated in canyon alluvium where the alluvial groundwater flow is cut off by Barrier 1 and collected by the extraction system upgradient of Barrier 1. Barrier 3 downgradient detection monitoring wells include R32B and R34B (Barrier 3 downgradient wells M31A and M33A are evaluation monitoring wells). These wells are completed in Pico Formation siltstone.

The Sanitation Districts submitted *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* to the RWQCB on November 15, 1996. As part of this report, the Sanitation Districts proposed revised groundwater detection monitoring programs for the Main Canyon and Canyon 9. The revised detection monitoring program was based on recommendations by ENVIRON Corporation in their July 1996 "*Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill*" report. For the Main Canyon, the revised detection monitoring program includes installing five new monitoring wells, M04A, M04B, M05A, M10B, and M11A along Barrier 1 and keeping detection monitoring wells R32B and R34B along Barrier 3. The locations of the proposed detection monitoring well network is shown in Exhibit 13. Although the RWQCB has not yet approved the revised detection monitoring program, in a letter dated December 30, 1996, the RWQCB stated it would be advantageous to install the proposed new detection monitoring wells as soon as possible. Therefore, the Sanitation Districts plan to install the new detection monitoring wells in 1997.

Canyon 9

Monitoring wells M24A, M27B, M28A, M29B, and M30B are situated in alluvium and bedrock of the Pico Formation at the mouth of Canyon 9. Insufficient water for sampling purposes has been observed in alluvial monitoring wells M28A and M30B since their installation. Bedrock monitoring wells M24A, M27B, and M29B are the compliance monitoring wells for the Canyon 9 area.

The Sanitation Districts submitted *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* to the RWQCB on November 15, 1996. As part of this report, the Sanitation Districts proposed revised groundwater detection monitoring programs for the Main Canyon and Canyon 9. The revised detection monitoring program was based on recommendations by ENVIRON Corporation in their July 1996 "*Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill*" report. At Canyon 9, ENVIRON recommended the use of only existing monitoring well M29B in the detection monitoring program because it is adequately located and is screened entirely in the uppermost aquifer. However, the Sanitation Districts propose to continue monitoring M27B to obtain reference information about



LEGEND

- EXISTING SUBSURFACE BARRIER
- EXISTING DETECTION MONITORING WELL
- PROPOSED DETECTION MONITORING WELL

EXHIBIT 13

PUENTE HILLS LANDFILL

MAIN CANYON & CANYON 9
PROPOSED DETECTION MONITORING
WELL NETWORK

water quality downgradient of Barrier 2. As for well M24A, The Sanitation Districts have reported in *Puente Hills Landfill Water Quality Monitoring Report, Third Quarter, 1995* that M24A has been affected by a foreign object not related to the landfill. Therefore the Sanitation Districts have proposed to discontinue monitoring this well.

The locations for the proposed detection monitoring wells for Canyon 9, M27B and M29B, are shown in Exhibit 13. The proposed detection monitoring program has not yet been approved by the RWQCB. Therefore, for 1996, the Sanitation Districts monitored wells M24A, M27B, and M29B as compliance monitoring points for Canyon 9.

Eastern Canyons

The current groundwater detection monitoring system for the Eastern Canyons expansion area includes wells M41A, M42A, and M43A. These wells monitor the uppermost aquifer, which is in the alluvium, downgradient of Barrier 4. Additional monitoring wells will be proposed by the Sanitation Districts for future expansion areas based upon results from two geotechnical and hydrogeologic investigations in the Eastern Canyons. One investigation was at the mouth of Canyon 5. This study was conducted by the Sanitation Districts' consultant, International Technology Corporation, and was completed in January 1996. This study focused on the proposed Barrier 5 area. Piezometers were installed near the proposed alignment for Barrier 5. Three of the piezometers, S1, S6, and S16 were monitored beginning in 1996 to provide background water quality information for future groundwater monitoring wells to be installed downgradient of Barrier 5. The locations for S1, S6, and S16 are shown in Exhibit 11. As stated in a letter dated March 4, 1996 to the RWQCB, the results of the analyses for these wells will not be submitted to the RWQCB on a quarterly basis, but will be analyzed and presented to the RWQCB before waste placement disposal begins in Canyon 5.

The other investigation was performed by the Sanitation Districts' consultant, Dames & Moore, and was completed January 24, 1997. The study covers the entire future expansion area. One objective of the study was to characterize the groundwater systems, particularly in the bedrock, for the future expansion area. Based on the hydrogeologic portions of the Dames & Moore report and other previously conducted geologic and hydrogeologic investigations, the Sanitation Districts are currently preparing a report to propose the groundwater detection monitoring system for the entire Eastern Canyons expansion area that meets both the federal and state regulatory requirements.

3.1.1.2 Monitoring Program

The Sanitation Districts proposed in the Subtitle D Report that detection monitoring wells are tested on a quarterly basis for metal surrogates (pH, total dissolved solids, sulfate, chloride, and nitrate) and the volatile organic compounds (VOCs) contained in Appendix I to Title 40, Code of Federal Regulations, Part 258 (or Appendix I VOCs). These monitoring parameters were analyzed for Main Canyon and Canyon 9 detection monitoring wells quarterly during 1996. Detection monitoring wells M41A, M42A, and M43A were analyzed for an extensive list of constituents of

concern (general parameters, metals, VOCs, base neutral/acid extractable compounds, pesticides, and herbicides) in 1996 according to requirements in WDR Order No. 93-070 and MRP No 7336.

3.1.2 Evaluation Monitoring

3.1.2.1 Monitoring System

In December 1994, the Sanitation Districts detected low levels of VOCs at well RMW6 downgradient of Barrier 1 and at wells M31A and M33A downgradient of Barrier 3. Well RMW6 is in the alluvium and weathered Pico Formation bedrock, while monitoring wells M31A and M33A are completed in alluvium overlying the Pico Formation bedrock. The VOC detections were confirmed when these wells were retested in January 1995. As a result, the Sanitation Districts sampled all monitoring wells and analyzed for all constituents of concern in March 1995. The monitoring results indicate (1) the landfill has no effect on all detection monitoring wells except wells RMW6, M31A, and M33A; and (2) VOCs is the only water quality concern at RMW6, M31A, and M33A; general water quality indicator parameters, metals, base neutral/acid extractable compounds, pesticides, and herbicides are either not detected or detected at levels equivalent to background conditions. Based on a review of these monitoring data, the Sanitation Districts concluded that the VOC detections in these wells are due to landfill gas contact with groundwater.

On May 30, 1995, the Sanitation Districts submitted *Amended Report of Waste Discharge - Evaluation Monitoring Program, Puente Hills Landfill* in which the Sanitation Districts proposed an Evaluation Monitoring Program (EMP) to satisfy the regulatory requirements in Title 23, Chapter 15, §2550.8(k)(5) and §2550.9, Code of California Regulations and Title 40, §258.55(g)(l)(ii), Code of Federal Regulations. The objective of the proposed EMP is to further characterize the nature and extent of the VOC present in groundwater. As a first step in achieving this goal, the Sanitation Districts acquired the services of a consultant, ENVIRON Corporation, to characterize geologic and groundwater flow conditions along Barriers 1, 2, and 3. Water quality data were also collected by the Sanitation Districts during the time of this comprehensive study. In the interim, the Sanitation Districts monitored RMW6, M31A, and M33A as evaluation monitoring wells. The Sanitation Districts also monitored an existing offsite monitoring well, M16A (shown in Exhibit 12). This well is located hydraulically downgradient of the Puente Hills Landfill approximately 1,200 feet from the landfill boundary. This well was installed in 1987 for the statewide Solid Waste Assessment Test program. Any water quality effect on downgradient groundwater quality caused by the Puente Hills Landfill will be indicated by this well. However, since it is located in the San Gabriel Groundwater Basin, where groundwater contamination by industries is widely documented and is being investigated by both the RWQCB and the United States Environmental Protection Agency, there is a potential that M16A may be affected by industrial contamination not related to the Puente Hills Landfill.

In July 1996, ENVIRON Corporation prepared *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill* summarizing results from their study. This report was submitted to the RWQCB on July 31, 1996. On September 20, 1996, the Sanitation Districts completed *Hydrogeologic Investigation Along Subsurface Barrier Systems, Water Quality Report,*

Puente Hills Landfill and submitted it to the RWQCB. Based on the results contained in these reports, the Sanitation Districts submitted *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* to the RWQCB on November 15, 1996. The Sanitation Districts propose in the Evaluation Monitoring Program to install four new wells, EMP1, EMP2, EMP3, and EMP4, and to continue monitoring five existing wells, RMW6, M31A, M33A, EMP5, and M16A to fully characterize the vertical and lateral extent of the VOC detections from the Main Canyon. Well EMP5 was installed by Environ in 1995. Exhibit 14 shows the locations of the proposed EMP wells. The RWQCB approved the proposed EMP on December 30, 1996. The Sanitation Districts intend to install and sample the propose new EMP wells, EMP1, EMP2, EMP3, and EMP4, by the end of the third quarter of 1997.

3.1.2.2 Monitoring Program

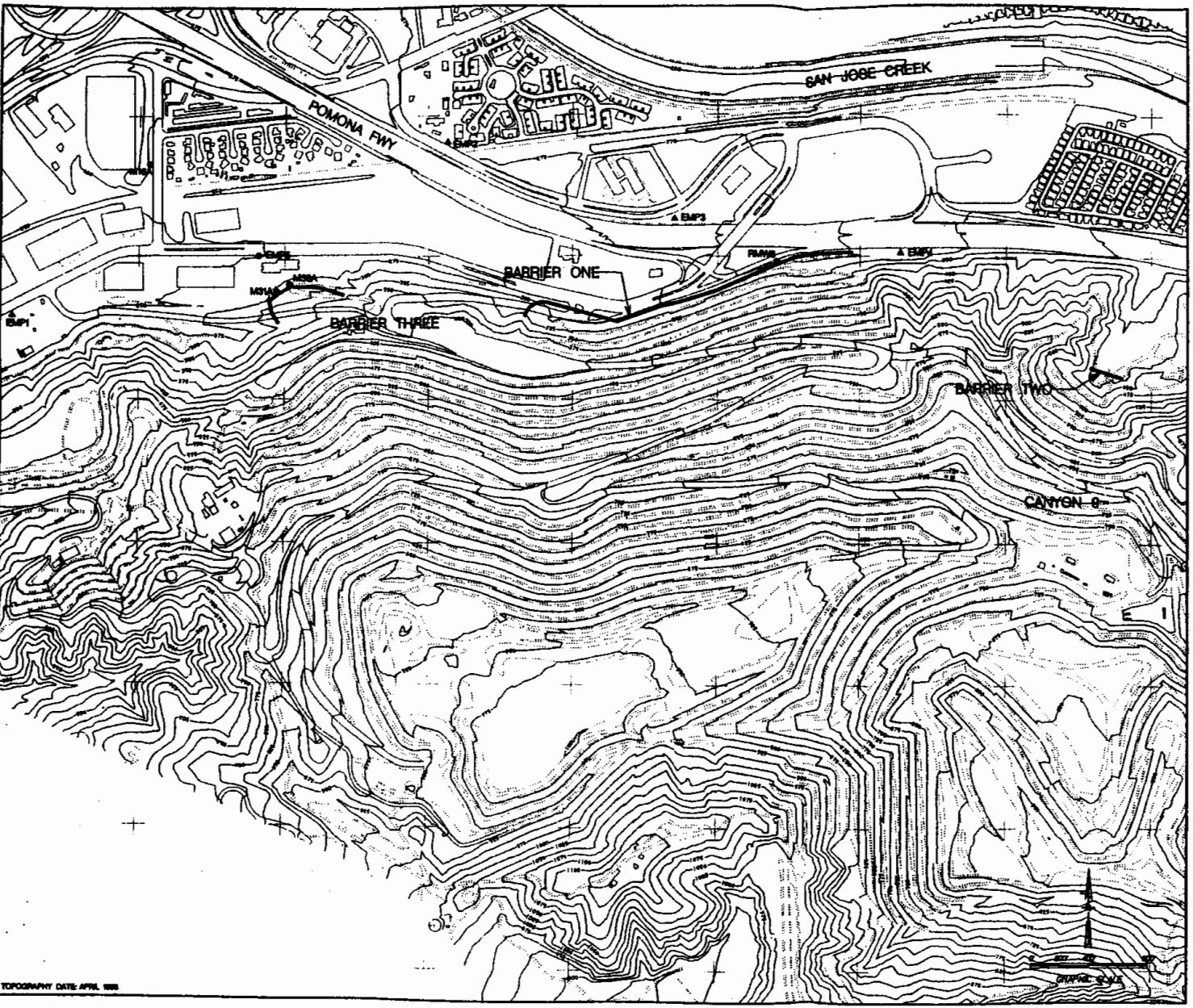
The Sanitation Districts analyzed the evaluation monitoring wells, RMW6, M31A, M33A, and M16A, for metal surrogates and Appendix I VOCs quarterly during 1996. In addition, the Sanitation Districts tested for water quality indicators and Appendix I inorganics in March and June at M16A. No samples were collected from well EMP5 during 1996.

3.2 SURFACE WATER

The Puente Hills Landfill drainage system consists of graded benches, drainage channels, debris basins, and downdrains. The surface water drainage system minimizes surface water infiltration, ponding, and slope erosion by providing a means for rainfall runoff to be diverted from the front face and top deck of the landfill and channeled into desilting basins, and eventually, into storm drains. The surface water drainage system is depicted on Exhibit 15. In 1996, the drainage system functioned effectively as designed.

In 1992, the Sanitation Districts prepared a Storm Water Pollution Prevention Plan (SWPPP) for the Puente Hills Landfill pursuant to the California General Permit requirements for compliance with the National Pollutant Discharge Elimination System (NPDES) rules. The SWPPP calls for the use of best management practices to minimize the potential for runoff contamination by landfill operations. To fulfill the requirements of the General Permit and to determine the effectiveness of the SWPPP, the Sanitation Districts developed a runoff monitoring program in December 1992. The implementation of this program began in 1993 and continued during 1996. The runoff monitoring program was also designed to comply with the requirements in Title 23, Chapter 15, Article 5 of the California Code of Regulations. Details of the monitoring program including the monitoring system and monitoring parameters are included in the Subtitle D Report.

The surface water monitoring system consists of nine monitoring locations where runoff samples are collected. Of these nine monitoring locations, one (SDB) background monitoring point collects runoff not contacted by landfill operations. The Main Canyon area has six downgradient monitoring points (SD1, SD2, SD3, SD4, SD5, and SD10). The Canyon 9 area has one



LEGEND

- EXISTING SUBSURFACE BARRIER
- EXISTING EVALUATION MONITORING WELL
- PROPOSED EVALUATION MONITORING WELL

EXHIBIT 14

PUENTE HILLS LANDFILL

MAIN CANYON PROPOSED
EVALUATION MONITORING WELLS

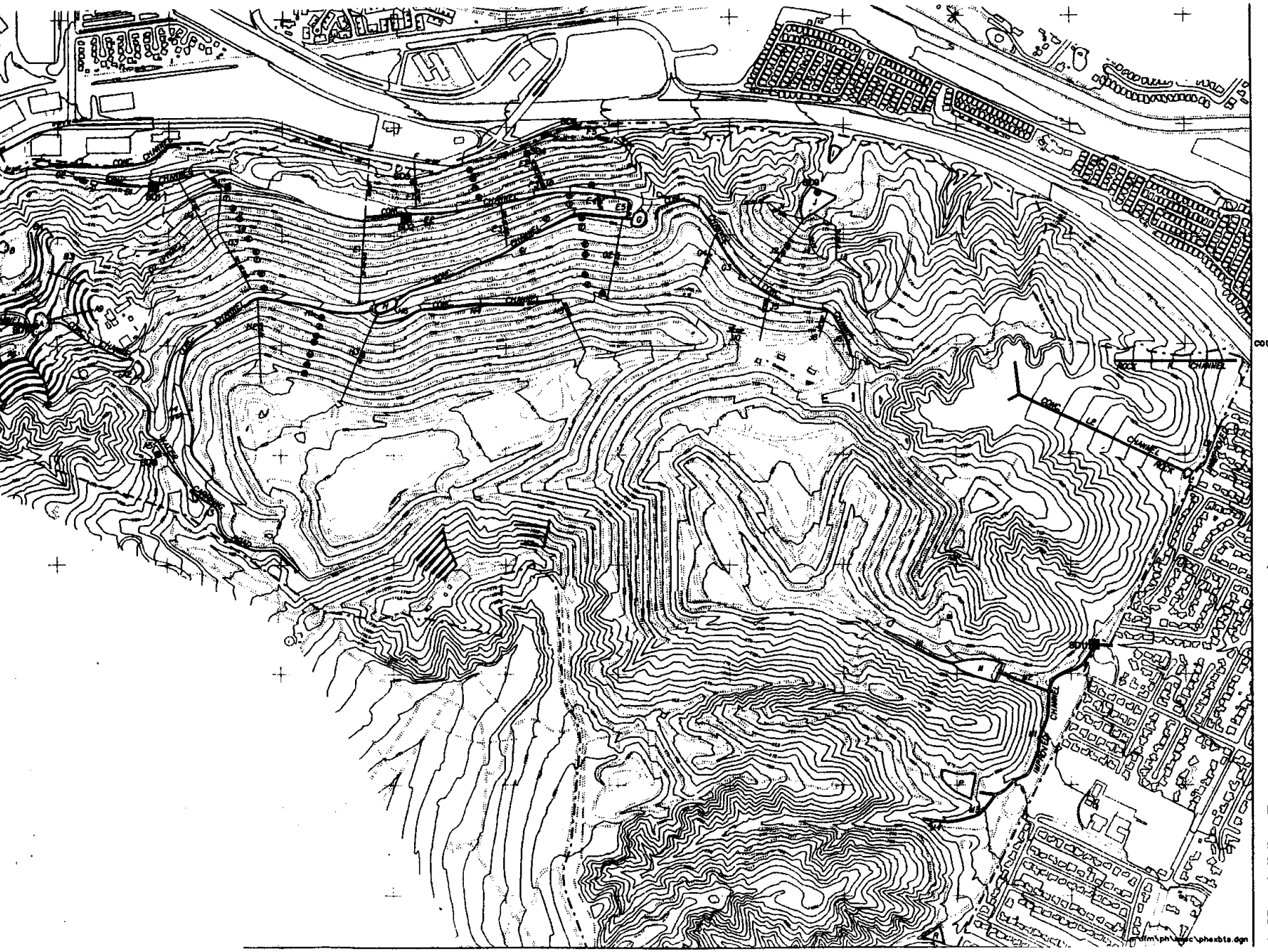


EXHIBIT 15

DRAINAGE SYSTEM AND SURFACE WATER SAMPLING LOCATIONS

PUENTE HILLS LANDFILL
SANITATION DISTRICTS, JUNE 1998

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN APRIL 17, 1996

downgradient monitoring location (SD9). The Eastern Canyons expansion area currently has one downgradient monitoring location (SD11).

During 1996, four sets of runoff samples were collected from locations SD1, SD2, and SD11 as part of the NPDES sampling. These samples were analyzed for general parameters, volatile organic compounds, and selected heavy metals, pesticides, and base neutral acid extractable compounds. One set of samples were collected from locations SDB, SD3, SD4, SD5, SD9, and SD10 as part of the Article 5 sampling. These samples were analyzed for general parameters and volatile organic compounds.

3.3 LIQUID COLLECTION AND REMOVAL SYSTEM (LCRS)

Liquid collection and removal systems (LCRS) were installed as part of the composite liner systems for Canyon 9 and the Eastern Canyons expansion area of the Puente Hills Landfill. Water collected from both LCRS is discharged to the sewer system pursuant to the site's industrial waste discharge permits. The monthly LCRS pumping rates for the Canyon 9 and Eastern Canyons LCRS are presented in Table 2. These systems functioned effectively in 1996. High flow rates to the Eastern Canyons LCRS during the winter months were due to rainfall. Much of the rainfall entered the Eastern Canyons LCRS from exposed bench drains located at the Phase 2 liner area of the landfill.

The Canyon 9 LCRS was sampled in April and October 1996 in accordance with RWQCB Order No. 93-062. The Eastern Canyons LCRS was sampled in April, July, October, and December 1996 pursuant to Order No. 93-062 and Order No. 93-070. The samples were analyzed for all constituents of concern. The purpose of this sampling is to determine the list of constituents of concern for monitoring wells downgradient of the Canyon 9 and Eastern Canyons expansion areas. The results of these constituents of concern scans were reported to the RWQCB in either the Constituents of Concern Reports submitted in August 1996 and February 1997, or in 1996 water quality quarterly monitoring reports submitted to the RWQCB.

3.4 REUSED WATER

At the Puente Hills Landfill, groundwater is collected upgradient of each barrier through a system of extraction wells. The extraction rates at each barrier during 1996 are summarized in Table 2. No water was collected upgradient of Barrier 2.

MRP No. 2294 requires that the extraction wells at the barriers be sampled and analyzed for a short list of water quality parameters. Prior to the fourth quarter of 1994, the Sanitation Districts collected composite samples from the extraction wells at Barriers 1 and 3 (Barrier 2 was dry) on a monthly basis for the specified analyses. However, since the extracted water from the barriers was not reused, nor are extraction wells point of compliance in the site's groundwater monitoring program, the Sanitation Districts proposed in the Subtitle D Report to discontinue extraction wells sampling.

TABLE 2
1996 LCRS FLOW RATES AND BARRIER EXTRACTION RATES
PUENTE HILLS LANDFILL

Month	Canyon 9 LCRS (gallons)	Eastern Canyons LCRS (gallons)	Barrier 1 (gallons)	Barrier 3 (gallons)	Barrier 4 [1] (gallons)
January	16,129	87,206	304,327	399,603	139,620
February	18,422	208,778	220,653	372,670	151,426
March	21,991	141,349	212,313	417,898	192,981
April	18,920	37,238	108,719	414,075	226,072
May	18,252	8,278	205,141	527,497	185,449
June	13,592	10,690	190,709	555,107	138,260
July	22,770	5,220	164,459	577,204	150,802
August	15,779	6,660	201,487	553,101	319,944
September	15,978	7,505	156,577	562,888	291,669
October	17,356	39,964	711,476 [2]	571,268	315,740
November	19,857	242,759	676,481	545,677	274,247
December	26,235	575,871	495,420	565,253	248,797
Total	225,281	1,371,518	3,647,762	6,062,241	2,635,007

(1) The Barrier 4 extraction volumes include the Eastern Canyons drain system volumes. The Eastern Canyons drain system includes the underdrain and horizontal drainage wells located beneath the liner.

(2) The increase in extraction volumes from Barrier 1 in October 1996 was a result of installing four additional extraction wells, E16A, E17A, E18A, and E19A, upgradient of the barrier.

The collected groundwater from Barriers 1 and 3 is discharged to the sewer system pursuant to industrial waste discharge permits. The Sanitation Districts began to collect the groundwater that builds up behind Barrier 4 following its installation in 1995. This groundwater was reused for dust control beginning the third quarter of 1995. During 1996, the Sanitation Districts sampled the extracted groundwater from Barrier 4 pursuant to MRP No. 7336, Section V. The extracted groundwater from Barrier 4 met the reused water requirements specified in Provision E of WDR Order No. 93-070. The test results of these samples along with the volume of extracted water reused for dust control were reported to the RWQCB in water quality quarterly monitoring reports for 1996.

3.5 DEWATERED BIOSOLIDS AND TREATED INCINERATOR ASH

The dewatered biosolids disposed of at the landfill originates at the Sanitation Districts' Joint Water Pollution Control Plant. Summaries of the monthly average biosolids percent solids content and tons disposed are presented in Table 3. Two different types of analyses are performed on a regular basis: a quarterly modified citrate extract procedure for metals analyses, and a semi-annual analysis for pesticides and VOCs. Monitoring performed during 1996 did not indicate any exceedances of Title 22 criteria for the identification of hazardous wastes for those analyses required in MRP Nos. 2294 and 7336, Section II (C). Results of biosolids analyses have been separately reported to the RWQCB in quarterly monitoring reports and are not included in this annual report.

During 1996, the Puente Hills Landfill began accepting lime cake sludge generated at the West Basin Reclamation Plant operated by the West Basin Municipal Water District. The West Basin Municipal Water District tests the sludge quarterly to demonstrate compliance with the trace metals Total Threshold Limit Concentration (TTLC) and Soluble Threshold Limit Concentration (STLC) contained in the permit (Order No. 90-046) for the Puente Hills Landfill. The total tons of sludge disposed and the analytical results for the sludge analyses have been separately reported by the West Basin Municipal Water District to the RWQCB in quarterly monitoring reports and are not included in this annual report.

Treated incinerator ash from Commerce Refuse to Energy Facility (Commerce) and the Southeast Resources Recovery Facility (SERRF) located in Long Beach was disposed at the Puente Hills Landfill during 1996. Summaries of the monthly tons of treated ash disposed are presented in Table 4. All incinerator ash accepted at the Puente Hills Landfill during 1996 was treated by a solidification/stabilization process. This process forms a concrete or aggregate like material designed to conform with applicable water quality objectives. Treated ash has been classified as a nonhazardous waste by the California Department of Toxic Substances Control.

In accordance with MRP No. 7336, the treated ash from Commerce and SERRF was analyzed by the Waste Extraction Test (WET) with citrate buffer and deionized water extraction on a quarterly basis. These results and disposal summaries have been separately submitted to RWQCB in quarterly monitoring reports and are not included in this annual report.

TABLE 3
1996 BIOSOLIDS DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Tonnages	Solids Content (%)
January	12,335	25.9
February	10,845	26.4
March	11,512	26.8
April	11,364	26.7
May	10,680	26.3
June	9,565	26.5
July	12,829	26.5
August	11,504	26.1
September	10,552	26.3
October	10,375	26.1
November	9,858	26.1
December	12,436	26.0

TABLE 4
1996 TREATED INCINERATOR ASH DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Tonnages
January	17,860
February	13,972
March	15,202
April	16,754
May	15,718
June	17,831
July	19,305
August	17,658
September	17,022
October	16,395
November	16,189
December	15,118

4.0 WATER QUALITY MONITORING RESULTS

This section discusses primarily the monitoring results obtained from the groundwater and surface water monitoring program. All monitoring data presented in this annual report have previously been submitted to the RWQCB in quarterly monitoring reports and the semi-annual constituents of concern monitoring reports for the LCRS liquid.

4.1 MONITORING DATA SUMMARY

Water quality monitoring results for 1996 are presented in the Appendix (Tables A.1 through A.9) of this report. The Appendix includes in tabular form, the data collected from each monitoring facility. In addition, graphs presenting five years of data for each constituent at each groundwater monitoring well are included pursuant to the requirement in Order No. 93-062. Graphs were prepared for constituents which were analyzed for during 1996 for monitoring wells at Barriers 1, 2, 3, and 4, and offsite monitoring well M16A. If there were no detections of a particular constituent at a particular well during 1996, the graph was not plotted unless the constituent was detected at or above the detection limit in at least two monitoring periods since 1992. The tabulated and graphed data are grouped as follows:

- Barrier 1 downgradient monitoring wells (MW4, MW5, and RMW6; MW10 was dry in 1996);
- Barrier 2 downgradient monitoring wells (M24A, M27B, and M29B; M28A and M30B were dry);
- Barrier 3 downgradient monitoring wells (M31A, R32B, M33A, and R34B);
- Barrier 4 downgradient monitoring wells (M41A, M42A, and M43A);
- Offsite monitoring well (M16A);
- Liquid collection and removal systems (LCRS for Canyon 9 and LCS2 for Eastern Canyons);
- Surface runoff monitoring locations (SDB, SD1, SD2, SD3, SD4, SD5, SD9, SD10, and SD11);
- Reused water; and
- Equipment and trip blanks (BLNK or EQIP).

A computer diskette containing all monitoring results collected in 1996 is included with the transmittal of this report to the RWQCB. The data are in the Microsoft® Excel version 5.0 format. Incomplete analyses were the result of insufficient sample volume. Laboratory analyses, including laboratory methods and method detection limits (MDL), followed the program outlined in the Subtitle D Report and two Sanitation Districts' transmittals to the RWQCB on September 22, 1994 and November 21, 1994 regarding this issue. Changes in the method detection limits are a result of matrix interference or changes in the regulatory MDL. All laboratory analyses were conducted at laboratories certified by the California Department of Health Services Environmental Laboratory Accreditation Program for such analyses. Laboratory analyses follow the methods approved by the

United States Environmental Protection Agency. The QA/QC data were previously provided in quarterly monitoring or constituents of concern reports.

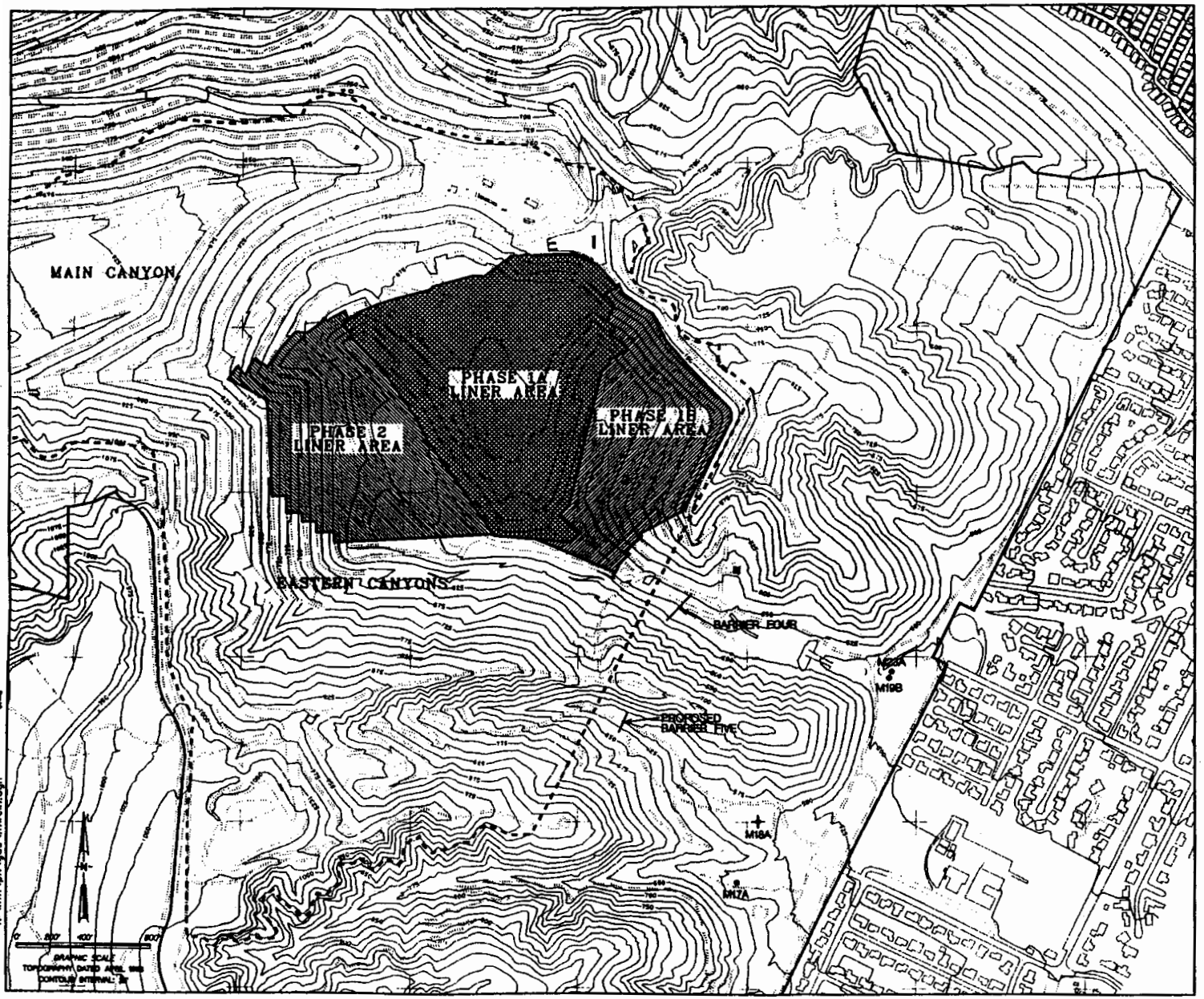
4.2 BACKGROUND WATER QUALITY

Background water quality is a critical element in a groundwater detection monitoring program. It is used to determine whether a release has occurred at a waste management unit and, if so, the nature of the release. Based on background water quality data, concentration limits can be derived for each water quality indicator parameter. A tentative release from the landfill is indicated if the groundwater monitoring results from a downgradient compliance well exceed the concentration limits.

The Sanitation Districts have submitted a detailed proposal for determination of background water quality conditions for the Main Canyon and Canyon 9 in 1994 in the Subtitle D Report. The Sanitation Districts' approaches are based on extensive monitoring data collected from wells not affected by landfilling operations and from experimental studies. These data characterize the range of background water quality in different portions, i.e., Main Canyon, Canyon 9, and Eastern Canyons, of the Puente Hills Landfill. An updated discussion of the site's background water quality and the Sanitation Districts proposal for characterizing background water quality for the Main Canyon and Canyon 9 is included in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*, submitted to the RWQCB on November 15, 1996. The Sanitation Districts proposal for characterizing background water quality for the Eastern Canyons will be included in the Eastern Canyons water quality detection monitoring program report that will be submitted to the RWQCB in 1997. This section summarizes the approaches proposed by the Sanitation Districts to characterize background water quality conditions for the detection monitoring wells in the Main Canyon, Canyon 9, and the Eastern Canyons.

Main Canyon

The background water quality for the Main Canyon detection monitoring wells was based on historical data from monitoring wells M17A, M18A, M19B, and M23A (shown in Exhibit 16) at the Puente Hills Landfill. These wells are located in areas that are geochemically similar to the formation in which the Main Canyon compliance wells are screened. Data from 1987 to 1994 from these background wells were used to statistically calculate concentration limits for the Main Canyon detection monitoring wells (MW4, MW5, R32B, and R34B) in 1994; details of the statistical procedures used and the concentration limits are presented in the Subtitle D Report. The concentration limits were updated and presented in *Amended Report of Waste Discharge - Evaluation Monitoring Program, Puente Hills Landfill*, submitted to the RWQCB on May 30, 1995. Table 5 summarizes these concentration limits.



LEGEND

- PROPERTY LINE
- PERMITTED LANDFILL OPERATIONS LIMIT
- BACKGROUND MONITORING WELL
- ABANDONED BACKGROUND MONITORING WELL

EXHIBIT 16

BACKGROUND MONITORING WELLS

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

Canyon 9

The background water quality for the Canyon 9 area was determined based on historical monitoring data collected from M24A, M27B, and M29B before waste disposal. The Sanitation Districts monitored these wells for approximately nine months, on a monthly basis, prior to waste disposal in Canyon 9. These data were used to calculate concentration limits for intrawell comparison with monitoring data collected after waste placement. The Subtitle D Report contains a detailed description of the statistical methods used to derive the concentration limits. The concentration limits were updated in *Amended Report of Waste Discharge - Evaluation Monitoring Program, Puente Hills Landfill* and are summarized in Table 5.

Eastern Canyons

The background water quality for detection monitoring wells M41A, M42A, and M43A, located downgradient of Barrier 4, will be based on an "intra-well" comparison method after sufficient data have been collected from the wells. Because the waste disposal area is lined with a composite liner system exceeding the Subtitle D design criteria, the Sanitation Districts expect that the landfill will not affect water quality at M41A, M42A, and M43A. As a result, historical monitoring data collected after waste placement continue to represent background water quality. This can be verified by examining for any detection of volatile organic compounds (VOCs), which are typical landfill contaminants; and evaluating LCRS liquid water quality data. There have been no confirmed detections of VOCs at M41A, M42A, or M43A to date.

4.3 GROUNDWATER MONITORING RESULTS

The groundwater monitoring results for the detection monitoring wells and evaluation monitoring wells are discussed below. The water quality parameters are discussed according to the following categories: (1) general parameters (pH, conductivity, total dissolved solids, hardness, cations, anions, and organic matter); (2) metals; (3) volatile organic compounds; and (4) base neutral/acid extractable compounds (BNAs), pesticides, and herbicides. Data are analyzed to identify statistical outliers which may be due to sampling anomalies or laboratory errors. Outliers are included in this report and are presented in tabular and graphical data summary, but are excluded from further evaluation or statistical analyses.

4.3.1 Detection Monitoring

The detection monitoring results are discussed according to barrier location. In the following discussion of site water quality, monitoring results from 1996 for detection monitoring wells are compared against the statistically derived concentration limits summarized in Table 5 in Section 4.2. It is assumed that there is no naturally occurring anthropogenic constituents of concern in site background groundwater.

TABLE 5
PROPOSED CONCENTRATION LIMITS FOR NATURALLY OCCURRING CONSTITUENTS OF CONCERN PUENTE HILLS LANDFILL

CONSTITUENTS		BARRIER 1 (1)		BARRIER 3 (1)		BARRIER 2 (2)		
		MW4	MW5	R32B	R34B	M24A	M27B	M29B
General								
FIELD PH	PH	6.42*	6.42*	6.42*	6.42*	6.57*	6.46*	6.75*
CONDUCTIVITY	UMHOS/CM	5345	5345	5345	5345	1296	1150	2420
TOTAL DISSOLVED SOLIDS	MG/L	5160	5160	5160	5160	954	924	1570
TOTAL HARDNESS	MG/L	2490	2490	2490	2490	676	664	1250
TOTAL CYANIDE	MG/L	0.02	0.02	0.02	0.02	0.01	ND	0.01
BORON	MG/L	1.63	1.63	1.63	1.63	0.575	0.666	0.615
TOTAL ALKALINITY	MG/L	719	719	719	719	307	325	309
Anions								
SULFATE	MG/L	2960	2960	2960	2960	430	415	729
CHLORIDE	MG/L	310	310	310	310	50	50	160
FLUORIDE	MG/L	1.29	1.29	1.29	1.29	1.26	21.2	1.36
BICARBONATE ALKALINITY	MG/L	719	719	719	719	307	325	318
NITRATE NITROGEN	MG/L	22.3	22.3	22.3	22.3	0.205	0.246	0.381
Cations								
SODIUM	MG/L	530	530	530	530	54	39	86
IRON	MG/L	117	117	117	117	16.8	44.3	26.4
MANGANESE	MG/L	0.24	0.24	0.24	0.24	0.78	0.84	1.5
CALCIUM-HARDNESS	MG/L	1240	1240	1240	1240	493	470	808
MAGNESIUM-HARDNESS	MG/L	1270	1270	1270	1270	176	159	388
POTASSIUM	MG/L	11	11	11	11	8.0	7.0	8.0
Organic Matter								
SOLUBLE COD	MG/L	31	31	31	31	9.74	11.3	18.2
TOTAL ORGANIC CARBON	MG/L	13	13	13	13	5.4	8.4	5.0
AMMONIA NITROGEN	MG/L	0.4	0.4	0.4	0.4	0.3	0.2	0.8
OIL & GREASE	MG/L	3.0	3.0	3.0	3.0	3.0	7.0	5.0
Filtered Metals								
ANTIMONY	MG/L	0.0068	0.0068	0.0068	0.0068	0.0066	0.0064	0.0060
ARSENIC	MG/L	0.003	0.003	0.003	0.003	0.001	0.003	0.002
BARIUM	MG/L	0 05	0.05	0.05	0.05	0.07	0.06	0.06
COPPER	MG/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02
NICKEL	MG/L	2.0	2.0	2.0	2.0	0.06	0.04	0.1
SELENIUM	MG/L	0.03	0.03	0.03	0.03	0.003	0.003	0.002
ZINC	MG/L	0.17	0.17	0.17	0.17	2.2	0.098	0.089

NOTES:

(1) Concentration limits calculated based on monitoring data from background wells M17A, M18A, M19B, and M23A.

(2) Concentration limits calculated based on intrawell comparison.

* - Lower concentration limit.

The lower field pH concentration limits for Barriers One, Two, and Three were calculated using the same method as described in Puente Hills Landfill Water Quality Monitoring System Report, dated August 9, 1994.

4.3.1.1 Barrier 1

For Barrier 1 detection monitoring wells MW4 and MW5, the levels of all monitored general parameters in 1996 were within the concentration limits listed in Table 5. No VOCs were detected from these wells in 1996. There were no water quality concerns related to the metals, BNAs, pesticides or herbicides. Therefore, these compounds were not analyzed at these wells in 1996.

In conclusion, the water quality results for 1996 from MW4 and MW5 show no change in water quality and do not indicate any landfill effect. These wells will remain in the detection monitoring program.

4.3.1.2 Barrier 2

For Barrier 2 detection monitoring wells M24A, M27B, and M29B, the levels of all monitored general parameters in 1996 were within the concentration limits listed in Table 5, except for sulfate and total dissolved solids (TDS) at M24A and M27B. The 1996 sulfate and TDS levels at M24A and M27B were slightly higher than the calculated concentration limits. The TDS concentrations are related to the sulfate concentrations. There were no detection of other water quality parameters indicative of landfill effect, such as volatile organic compounds, at these wells. Therefore, the elevated TDS and sulfate levels are due to natural fluctuation of groundwater quality, not landfill effect. The Sanitation Districts will propose updated limits for sulfate and TDS for M24A and M27B.

There were no water quality concerns related to the metals, BNAs, pesticides or herbicides. Therefore, these compounds were not analyzed at these wells in 1996.

In conclusion, the water quality results for 1996 from M24A, M27B, and M29B do not indicate any landfill effect. These wells will remain in the detection monitoring program.

4.3.1.3 Barrier 3

For Barrier 3 detection monitoring wells R32B and R34B, the levels of all monitored general parameters in 1996 were within the concentration limits listed in Table 5. No VOCs were detectecd from these wells in 1996. There were no water quality concerns related to the metals, BNAs, pesticides or herbicides. Therefore, these compounds were not analyzed at these wells in 1996.

In conclusion, the water quality results for 1996 from R32B and R34B show no change in water quality and do not indicate any landfill effect. These wells will remain in the detection monitoring program.

4.3.1.4 Barrier 4

For Barrier 4 detection monitoring wells M41A, M42A, and M43A, the levels of some the monitored general parameters in 1996 show increasing or decreasing trends. The trends in the

general parameter concentrations are not believed to be due to landfill effect because there were no confirmed detections of other water quality parameters indicative of landfill effect, such as VOCs. VOCs are excellent indicators of landfill effect, especially in the early stages of refuse decomposition. The fluctuations in the general parameter concentrations may be due to natural or man-made conditions. Naturally occurring, long term, seasonal trends are commonly observed in groundwater monitoring data. Construction activities such as landfill excavation or the installation of a barrier may affect groundwater recharge patterns, resulting in permanent changes in down-canyon groundwater quality. The Sanitation Districts propose to collect more water quality monitoring data from these wells prior to calculating statistical concentration limits for the general parameters.

The 1996 fourth quarter sample for monitoring well M43A observed concentrations for several water quality parameter (for example, conductivity, TDS, sulfate, and bicarbonate alkalinity) that were lower than those previously observed. The sampling crew observed that rain water had possibly entered the well through the surface completion when sampling the well. The surface completion for the monitoring well was subsequently modified to ensure rain water would not enter the monitoring well during future rain events. The fourth quarter data for M43A will be treated as outliers.

During 1996, both unfiltered and filtered groundwater samples from the Barrier 4 monitoring wells were analyzed for metals. Unfiltered samples were analyzed for total metals while field filtered samples were analyzed for soluble metals. The unfiltered sample may contain sediment from the formation which can contain high concentrations of metals. The analysis of an unfiltered sample with a small amount of sediment will yield higher metal concentration levels than those that actually exist in the dissolved portion of the groundwater sample. For this reason, the evaluation of metals analysis results uses only filtered metals concentrations for any indication of landfill impact on groundwater quality. During 1996, the filtered metal concentrations from the Barrier 4 monitoring wells were below MCL levels and were within the range of background water quality concentrations as defined by the 1993 mineral leaching study results (summarized in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program).* This indicates that metals are not a water quality concern. The Sanitation Districts propose to collect more water quality monitoring data from these wells prior to calculating statistical concentration limits for the metals that are naturally present.

During 1996, there were no VOC detections at the Barrier 4 monitoring wells except for methylene chloride which was detected in monitoring wells M41A and M42A during the second quarter of 1996. The methylene chloride detections were below the practical quantitation limit. Methylene chloride is a common laboratory contaminant and was detected in two of the seven trip blanks collected during the second quarter of 1996. Because there were no other VOCs detected at these two wells and because the methylene chloride detections were not corroborated by subsequent sampling, the Sanitation Districts believe that these methylene chloride detections from these two wells are not indications of landfill effect.

During 1996, groundwater samples from the Barrier 4 monitoring wells were analyzed for BNAs, pesticides and herbicides. There were no detections of these compounds except for phthalates. Diethylhexyl phthalate and di-n-butyl phthalate were the only compounds detected in the water quality samples. Phthalates are widely used plasticizers and are commonly found in laboratory control blanks. The detection of these compounds is therefore not indicative of landfill effect.

In conclusion, the 1996 monitoring results for the Barrier 4 monitoring wells show no landfill effect. These monitoring wells will remain in the detection monitoring program.

4.3.2 Evaluation Monitoring Program

The evaluation monitoring program wells currently include three onsite monitoring wells RMW6, M31A, and M33A and one offsite well M16A (refer to Exhibit 12). During 1996, the levels of all monitored general parameters from these wells show no statistically significant change in water quality. The concentration levels of the general parameters were within the range of background water quality concentrations as defined by background monitoring wells M17A, M18A, M19B, and M23A. This indicates that these wells are not affected by a leachate release.

Low levels of volatile organic compounds were detected at monitoring well RMW6 downgradient of Barrier 1 and the two alluvial wells downgradient of Barrier 3 (M31A and M33A). Trichloroethylene, vinyl chloride, p-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, and cis-1,2-dichloroethylene were detected at Barrier 1 monitoring well RMW6 during 1996. Four of these VOCs, vinyl chloride, p-dichlorobenzene, 1,2 dichloroethane, and cis-1,2-dichloroethylene were detected at concentrations above the maximum contaminant levels (MCLs) for drinking water. Low levels of methylene chloride, trichloroethylene, vinyl chloride, 1,2-dichloroethane, and cis-1,2-dichloroethylene were detected at Barrier 3 monitoring wells M31A and M33A in 1996. Vinyl chloride and cis-1,2-dichloroethylene were detected above the MCL at M31A, and vinyl chloride and 1,2-dichloroethane were detected above the MCL at M33A.

During 1996, the Sanitation Districts also continued to monitored offsite monitoring well, M16A, as part of the evaluation monitoring program. Monitoring results from this well can be used to determine the potential effects from the Puente Hills Landfill on downgradient groundwater resources. Monitoring data collected in 1996 from this well indicated that this well was not affected by the Puente Hills Landfill, but was affected by the contaminants in the San Gabriel Groundwater Basin. Several VOCs commonly found in the San Gabriel Groundwater Basin due to industrial activities were detected at M16A. These VOCs included tetrachloroethylene, 1,1-dichloroethylene, and 1,1,1-trichloroethane. The VOCs typically detected at onsite monitoring wells RMW6, M31A, and M33A, however, were not detected at M16A.

In conclusion, the only water quality concerns at the Puente Hills Landfill are VOCs. However, at offsite monitoring well M16A, which is located 1,200 feet downgradient of the site, there is no VOC detected in the groundwater that is associated with the Puente Hills Landfill. Some

VOCs are detected at M16A, but these VOCs are related to contamination found in the San Gabriel Groundwater Basin due to industrial activities.

4.4 SURFACE WATER MONITORING RESULTS

The surface runoff monitoring consists of obtaining runoff water samples at locations SDB, SD1, SD2, SD3, SD4, SD5, SD9, SD10, and SD11. The results for the surface runoff monitoring for 1996 are presented in Table A.7. The concentrations of general parameters and metals found in the surface runoff samples were comparable to water that had been in contact with typical surface soils. Several of the soluble metal results exceeded the MCL levels. Soluble antimony results exceeded the MCL levels at SDB and SD2; soluble lead results exceeded the MCL levels at SD1 and SD11; soluble beryllium exceeded the MCL levels at SD1 and SD2; and soluble thallium exceeded the MCL level at SD1 and SD2. The high soluble antimony concentrations observed at SD2 is not considered to be a problem because high levels of soluble antimony were also observed at background location SDB. The high soluble lead concentrations that were observed at SD1 and SD11 correspond to samples that had high suspended solids levels. The high soluble lead concentrations were observed in samples collected in January and March of 1996 from locations SD1 and SD11 and were not corroborated by subsequent sampling in November and December of 1996. The soluble beryllium and thallium concentrations are one time detections and were not confirmed by subsequent sampling.

No VOCs, pesticides, herbicides organophosphorus, or BNA compounds were detected above the method detection limit except for acetone. Acetone was detected three times at locations SD1 and SD2; once at locations SDB, SD3, SD9, and SD10; once in an equipment blank, and once in a trip blank. The detections ranged from 10 to 37 ug/l, well below the practical quantitation limit of 100 ug/l. Acetone is a common laboratory contaminant. Because there were no other VOCs detected in the runoff samples, and because acetone was detected in an equipment blank, a trip blank and in background sample location SDB; the detection of acetone in the runoff samples is not considered to be related to the landfill.

5.0 COMPLIANCE RECORD

RWQCB Order No. 93-062, §13(B)(2)(c) requires a comprehensive discussion of the compliance record, and of any corrective actions taken or planned which may be needed to bring the discharger into full compliance with the landfill's waste discharge requirements. As discussed in Section 1.0, operations at the Puente Hills Landfill follow the conditions specified in various waste discharge requirements and monitoring and reporting programs issued by the RWQCB. In 1996, the Sanitation Districts were in full compliance with these conditions. This section discusses the Sanitation Districts' compliance with these operating conditions.

The requirements in various permits issued by the RWQCB that are applicable to the operations of the Puente Hills Landfill during 1996 can be summarized into three major categories: landfill operations, water quality monitoring and response program, and containment systems. The Sanitation Districts' compliance with these conditions in 1996 is discussed below:

5.1 LANDFILL OPERATIONS

During 1996, the Puente Hills Landfill accepted only nonhazardous solid wastes, inert solid wastes, biosolids, water treatment sludge, and treated municipal solid waste incinerator ash. As discussed in Sections 3.4 and 3.5 of this report, biosolids from the Sanitation Districts' Joint Water Pollution Control Plant and treated incinerator ash from Commerce Refuse-to-Energy Facility and Southeast Resource Recovery Facility were tested in 1996; the monitoring results indicate that the these wastes meet the disposal requirements in WDR Order Nos. 91-035 and 93-070. The minimum solids-to-liquids ratio of 5:1 by weight was always maintained in 1996. In fact, the typical solids-to-liquids ratio at the Puente Hills Landfill during 1996 was over 20:1. The site did not accept any of the unacceptable wastes specified in WDR Order Nos. 91-035 or 93-070.

Landfill gas condensate is collected at the Puente Hills Landfill, treated, and discharged to the sewer system pursuant to industrial waste discharge permits for the site. Liquid collected from the Canyon 9 LCRS and the Eastern Canyons LCRS is discharged to the sewer system pursuant to an industrial waste discharge permit. In 1996, the quality of the discharged wastewater met the discharge requirements specified in this industrial waste discharge permit. No LCRS liquid or condensate was reused on site in 1996.

The Sanitation Districts operate the Puente Hills Landfill in accordance with all other requirements for disposal site operations set forth in WDR Order Nos. 90-046 and 93-070. A periodic waste-load checking program has been implemented at the landfill to ensure that unauthorized hazardous materials are not disposed at the landfill. Surface water drainage controls are installed at the landfill to adequately divert rainfall runoff away from the site to prevent ponding over the waste-filled areas of the landfill and control the potential for cover erosion. Any surface water that leaves the site is permitted by a National Pollutant Discharge Elimination System (NPDES) permit. The Sanitation Districts adequately cover all waste at the end of each operating day. The County of Los Angeles Department of Health Services conducts a solid waste facility inspection of

the Puente Hills Landfill on a monthly basis. The California Integrated Waste Management Board and the RWQCB also conduct periodic inspections of the site. All Federal, State, County and City sanitary health codes, rules, regulations, and ordinances pertinent to the disposal of wastes at the landfill are complied with in the operation and maintenance of the landfill.

5.2 WATER QUALITY MONITORING AND RESPONSE PROGRAM

The Subtitle D Report submitted by the Sanitation Districts to the RWQCB on August 9, 1994 includes a complete water quality monitoring program for the Puente Hills Landfill. The report presents, for both groundwater and surface water monitoring, the detection monitoring systems, monitoring parameters, constituents of concern, monitoring and reporting frequency, sampling and analysis plans (including both field and laboratory quality assurance and quality control program), statistical methods for data analysis, and concentration limits developed for all monitoring parameters and constituents of concern (if available data allowed the calculations of these limits). The water quality monitoring program was amended based on the Sanitation Districts' discussion with the RWQCB staff on November 7, 1994. Two letters dated November 21, 1994 (one on Laboratory Analyses and Reporting of Water Quality and Ash Sampling Results, the other on Water Quality Monitoring and Reporting Program) documented the meeting discussion. The Sanitation Districts have been implementing the program described in the Subtitle D Report since the fourth quarter of 1994 for the Main Canyon and Canyon 9 areas of the Puente Hills Landfill. Quarterly monitoring reports were submitted to the RWQCB in 1996 to present detailed water quality monitoring activities and monitoring results at the Puente Hills Landfill. Each quarterly report includes waste disposal information, results from the waste load checking programs, sludge and treated ash analysis results, descriptions of water and wastewater management, groundwater monitoring data including sampling information, surface water monitoring data, if any, and a discussion of water quality monitoring results. Also included in the report as an appendix are all laboratory analysis results and quality assurance/quality control information required by Order No. 93-062, § 13(A).

There were few modifications to the water quality monitoring program in 1996. As previously discussed, the Sanitation Districts Consultant, ENVIRON Corporation, prepared *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill* in July 1996. This report was submitted to the RWQCB on July 31, 1996. The Sanitation Districts completed *Hydrogeologic Investigation Along Subsurface Barrier Systems, Water Quality Report, Puente Hills Landfill* and submitted it to the RWQCB on September 20, 1996. Based on the results in these reports, the Sanitation Districts submitted *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* to the RWQCB on November 15, 1996. The report proposed revised groundwater detection and evaluation monitoring programs for the Main Canyon and Canyon 9 portions of the Puente Hills Landfill. The revised detection monitoring program proposed four existing monitoring wells and five new monitoring wells (refer to Exhibit 13). The revised evaluation monitoring program includes five existing wells and four new wells (refer to Exhibit 14). The purpose of the evaluation monitoring wells is to define the extent of the volatile organic compounds in the groundwater and to ensure that the beneficial uses of the basin

groundwater are not affected by the landfill. The RWQCB approved the evaluation monitoring program portion of the report on December 30, 1996.

For the Eastern Canyons expansion area, the Sanitation Districts continued to monitor detection monitoring wells M41A, M42A, and M43A downgradient of Barrier 4. In 1995, the Sanitation Districts' consultant, International Technology Corporation, conducted a hydrogeologic investigation along the alignment of the proposed Barrier 5. Results from this investigation are included in *Geotechnical and Hydrogeologic Investigation, Canyon 5, Puente Hills Landfill*, prepared by International Technology Corporation in January 1996. As discussed in a letter dated March 4, 1996 to the RWQCB, the Sanitation Districts began monitoring three piezometers installed as part of this study beginning in the second quarter of 1996 to obtain background water quality at the mouth of Canyon 5. The results of the analysis from these monitoring wells will be analyzed and presented to the RWQCB before waste disposal begins in Canyon 5.

Also in 1995, the Sanitation Districts acquired the services of Dames & Moore to conduct a comprehensive geotechnical and hydrogeologic study in the Eastern Canyons. A report, *Puente Hills Landfill Geotechnical Investigation and Hydrogeological Study, Phase 2 and Phases 3 through 5 Expansion Areas*, was completed by Dames & Moore on January 24, 1997. As part of this study, Dames & Moore installed 44 piezometers in identified groundwater bearing zones in various geologic formations. The piezometers that encountered groundwater were sampled in 1996 and will be sampled in 1997 to collect background water quality data. These monitoring data will be analyzed and submitted to the RWQCB, and are not included in this report. Based on the hydrogeologic portions of the Dames & Moore report and other previously conducted geologic and hydrogeologic investigations, the Sanitation Districts are currently preparing a report to propose the groundwater detection monitoring system for the entire Eastern Canyons expansion area that meets both the federal and state regulatory requirements.

5.3 CONTAINMENT SYSTEMS

Containment systems installed at the Puente Hills Landfill during 1996 include the Phase 1B and Phase 2 liner systems (shown in Exhibit 11). These containment systems were installed as part of the expansion into the Eastern Canyons. The following technical design plans and construction quality assurance/quality control documents were submitted to the RWQCB for the Phase 1B liner system before construction:

1) "Technical Design Report to Accompany Detailed Plans, Standard and Special Provisions for the Phase I, Canyons 3/4, Eastern Canyons Expansion Area, Puente Hills Landfill" (Text and Appendices 1-14, 2 Volumes), dated March 1995;
2) "Final Report Phase 1B Subgrade Slope Stabilization Design Report, Eastern Canyons Expansion Area, Puente Hills Sanitary Landfill", GeoSyntec Consultants, Inc., dated April 26, 1995;
3) "Special Provisions for Construction of Puente Hills Landfill Slope Stabilization - Phase 1B", dated May 1995;

4) "Special Provisions for Construction of Puente Hills Landfill Composite Liner System, Phase 1B", dated October 1995;
5) Design Drawings and Specifications, Puente Hills Landfill Composite Liner System - Phase 1B (Eleven Drawings, No. 69D-g-74), dated October 26, 1995;
6) "Request for Proposal for Construction Quality Assurance During the Phase 1B Composite Liner Installation at the Puente Hills Landfill", dated November 1995;
7) Addenda, "Draft Report of Construction Quality Assurance Slope Stabilization Phase 1B, Puente Hills Landfill", dated October 1995;

The RWQCB reviewed these documents and approved the technical design plans for the Phase 1B liner system in a letter dated November 20, 1995. Construction of the Phase 1B liner system took place from January 26, 1996 to June 6, 1996. The construction quality assurance services for the Phase 1B liner system were performed by the Sanitation Districts' consultant GeoSyntec Consultants. The final construction quality assurance report for the Phase 1B liner was completed on November 26, 1996.

During 1996, the Sanitation Districts completed the design and installation of the Phase 2 liner system for the Eastern Canyons area. The following technical design plans were submitted to the RWQCB for the Phase 2 liner system before construction:

1) "Special Provisions for Construction of Puente Hills Landfill Composite Liner System - Phase 2", dated May 1996;
2) "Puente Hills Landfill, Composite Liner System - Phase 2" (Drawing No. 69D-g-79), dated May 2, 1996;
3) "Geotechnical Report, Phase 2 Subgrade Slope Stability Analyses, Eastern Canyons Expansion Area, Puente Hills Landfill", dated April 1996;

The RWQCB reviewed these documents and approved the technical design plans for the Phase 2 liner system in a letter dated July 2, 1996. Construction of the Phase 1B liner system took place from July 15, 1996 to November 6, 1996. The construction quality assurance services for the Phase 2 liner system were performed by the Sanitation Districts' consultant Golder Construction Services, Inc. The final construction quality assurance report for the Phase 2 liner was completed in January 1997 and delivered to the RWQCB on February 25, 1997.

During 1996, the Sanitation Districts enhanced the groundwater extraction at Barrier 1 by installing four additional extraction wells upgradient of the barrier. The Sanitation Districts informed the RWQCB of its intent to install the four wells in a letter dated July 15, 1996; and the proposal was approved by the RWQCB in a letter dated July 16, 1996. The Sanitation Districts' consultant Dames & Moore, installed the extraction wells. The as-built report, *Installation of Groundwater Extraction Wells - Barrier No. 1, Puente Hills Landfill*, dated October 30, 1996 was submitted to the RWQCB on November 11, 1996.

APPENDIX

WATER QUALITY MONITORING DATA

PUENTE HILLS LANDFILL, 1996

TABLE A.1

WATER QUALITY DATA

BARRIER 1 MONITORING WELLS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ13243 03/13/96		WELL MW4 SJ17891 06/10/96		WELL MW4 SJ21490 09/09/96		WELL MW4 SJ25312 12/16/96	
FIELD PARAMETERS									
DEPTH TO WATER	FT	43.5		44.51		43.98		44.08	
DEPTH TO BOTTOM	FT	44.58		45.26		44.61		44.58	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	19		19		20		20	
GENERAL									
PH	PH	6.83		B					
TOTAL DISSOLVED SOLIDS	MG/L	1823		B					
ANIONS									
NITRATE NITROGEN	MG/L N	2.17	A	B					
SULFATE	MG/L SO4	720	A	B					
CHLORIDE	MG/L CL	105	A	B					
METALS									
THALLIUM	MG/L TL	<0.002							
TIN	MG/L SN	< 0.06							
VANADIUM	MG/L V	< 0.05							
VOLATILE ORGANIC COMPOUNDS									
BROMOCHLOROMETHANE	UG/L	< 1		< 1		< 1		< 1	
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01		< 0.01					
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1		< 1		< 1		< 1	
METHYL IODIDE	UG/L	< 1		< 1		< 1		< 1	
METHYLENE BROMIDE	UG/L	< 1		< 1		< 1		< 1	
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1		< 1		< 1		< 1	
1,2,3-TRICHLOROPROPANE	UG/L	< 1		< 1		< 1		< 1	
METHYLENE CHLORIDE	UG/L	< 1		< 1		< 1		< 1	
CHLOROFORM	UG/L	< 1		< 1		< 1		< 1	
1,1,1-TRICHLOROETHANE	UG/L	< 1		< 1		< 1		< 1	
CARBON TETRACHLORIDE	UG/L	< 0.3		< 0.3		< 0.3		< 0.3	
1,1-DICHLOROETHENE	UG/L	< 1		< 1		< 1		< 1	
TRICHLOROETHYLENE	UG/L	< 1		< 1		< 1		< 1	
TETRACHLOROETHYLENE	UG/L	< 1		< 1		< 1		< 1	
BROMODICHLOROMETHANE	UG/L	< 1		< 1		< 1		< 1	
DIBROMOCHLOROMETHANE	UG/L	< 1		< 1		< 1		< 1	
BROMOFORM	UG/L	< 1		< 1		< 1		< 1	

FOOTNOTES : A-AVERAGE B-SAMPLE LOST

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ13243 03/13/96	WELL MW4 SJ17891 06/10/96	WELL MW4 SJ21490 09/09/96	WELL MW4 SJ25312 12/16/96
VOLATILE ORGANIC COMPOUNDS					
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01		
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-SAMPLE LOST

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW5 SJ13244 03/13/96	WELL MW5 SJ17892 06/10/96	WELL MW5 SJ21491 09/09/96	WELL MW5 SJ25313 12/16/96
FIELD PARAMETERS					
DEPTH TO WATER	FT	59.37	59.83	59.4	60.78
DEPTH TO BOTTOM	FT	61.66	62.35	61.9	61.63
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	20	19	19
FIELD WATER TEMPERATURE	DEG C		23.9	26.2	
FIELD PH	PH		7.3	7.55	
FIELD CONDUCTIVITY	UMHOS/CM		821	965	
FIELD DISSOLVED O2	MG/L		1.3	2.1	
FIELD DISSOLVED CO2	MG/L		36.4	49.1	
GENERAL					
PH	PH	7.41	7.55 B	7.65	7.89
TOTAL DISSOLVED SOLIDS	MG/L	360	530	568	628
ANIONS					
NITRATE NITROGEN	MG/L N	0.10 A	0.06 A	< 0.05 A	0.20 A
SULFATE	MG/L SO4	20.8 A	29.0 A	30.8 A	51.5 A
CHLORIDE	MG/L CL	9.9 A	23.3 A	36.2 A	43.2 A
METALS					
THALLIUM	MG/L TL	<0.002			
TIN	MG/L SN	< 0.06			
VANADIUM	MG/L V	< 0.05			
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL MW5 SJ13244 03/13/96	WELL MW5 SJ17892 06/10/96	WELL MW5 SJ21491 09/09/96	WELL MW5 SJ25313 12/16/96
VOLATILE ORGANIC COMPOUNDS						
TRICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1
BROMOFORM	UG/L		< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ13245 03/13/96	WELL RMW6 SJ17900 06/10/96	WELL RMW6 SJ21492 09/09/96	WELL RMW6 SJ21493 09/09/96	WELL RMW6 SJ25314 12/16/96
FIELD PARAMETERS						
DEPTH TO WATER	FT	54.02	52.68	53.23		56.48
DEPTH TO BOTTOM	FT	90.92	90.86	91.18		90.82
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	19	20	20		20
FIELD WATER TEMPERATURE	DEG C	21.74	22.74	24.99		21.21
FIELD PH	PH	6.43	6.55	6.66		6.54
FIELD CONDUCTIVITY	UMHOS/CM	2761	2721	2768		2473
FIELD DISSOLVED O2	MG/L	1.4	2.3	0.43		0.49
GENERAL						
PH	PH	6.92	7.08	7.01	7.10	7.02
TOTAL DISSOLVED SOLIDS	MG/L	2181	2103	2122	2120 B	1896
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A
SULFATE	MG/L SO4	922 A	884 A	929 A	917 A	807 A
CHLORIDE	MG/L CL	148 A	142 A	150 A	148 A	134 A
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	4	4	3	4	3
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	3	3	2	2	1

FOOTNOTES : A-AVERAGE B-DUP & SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ13245 03/13/96	WELL RMW6 SJ17900 06/10/96	WELL RMW6 SJ21492 09/09/96	WELL RMW6 SJ21493 09/09/96	WELL RMW6 SJ25314 12/16/96
VOLATILE ORGANIC COMPOUNDS						
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	6	7	7	7	6
1,1-DICHLOROETHANE	UG/L	5	4	4	4	3
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	3	3	2	2	2
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	69	65	55	60	41
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-DUP & SPIKE

TABLE A.2

WATER QUALITY DATA

BARRIER 2 MONITORING WELLS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ13375 03/15/96	WELL M24A SJ17901 06/10/96	WELL M24A SJ21480 09/09/96	WELL M24A SJ24779 12/03/96	WELL M24A SJ24780 12/03/96
FIELD PARAMETERS						
DEPTH TO WATER	FT	55.63	57.17	56.9	57.73	
DEPTH TO BOTTOM	FT	85.35	85.35	84.96	85.35	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	20	21	20	20	
FIELD WATER TEMPERATURE	DEG C	21.34	23.26	22.7	19.41	
FIELD PH	PH	6.66	6.75	6.76	6.77	
FIELD CONDUCTIVITY	UMHOS/CM	1573	1684	1555	1696	
FIELD DISSOLVED O2	MG/L	1	0.54	0.53	0.96	
GENERAL						
PH	PH	7.18	7.16	7.17	7.31 B	7.27
TOTAL DISSOLVED SOLIDS	MG/L	1274	1353	1335	1334 C	1339
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A
SULFATE	MG/L SO4	605 A	662 A	664 A	657 A	658 A
CHLORIDE	MG/L CL	14.3 A	13.2 A	14.1 A	13.5 A	13.6 A
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M24A SJ13375 03/15/96	WELL M24A SJ17901 06/10/96	WELL M24A SJ21480 09/09/96	WELL M24A SJ24779 12/03/96	WELL M24A SJ24780 12/03/96
VOLATILE ORGANIC COMPOUNDS							
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ13369 03/15/96	WELL M27B SJ17914 06/10/96	WELL M27B SJ17915 06/10/96	WELL M27B SJ21531 09/10/96	WELL M27B SJ21532 09/10/96	WELL M27B SJ25304 12/16/96
FIELD PARAMETERS							
DEPTH TO WATER	FT	57.07	57.14		57.8		58.6
DEPTH TO BOTTOM	FT	82.98	82.3		82.18		82.3
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1		< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	18	20		20		17
FIELD WATER TEMPERATURE	DEG C	20.3	26.93		22.11		21.03
FIELD PH	PH	6.88	6.82		6.72		6.67
FIELD CONDUCTIVITY	UMHOS/CM	1094	1280		1449		1563
FIELD DISSOLVED O2	MG/L	0.8	1.31		1.25		0.76
GENERAL							
PH	PH	7.24 A	7.21 A	7.25	7.66 A	7.55	7.28
TOTAL DISSOLVED SOLIDS	MG/L	858 B	958	978	1284	1262	1203
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 C	< 0.05 C	< 0.05 C	< 0.05 C	< 0.05 C	< 0.05 C
SULFATE	MG/L SO4	348 C	405 C	410 C	616 C	614 C	576 C
CHLORIDE	MG/L CL	14.7 C	15.7 C	15.6 C	20.1 C	20.1 C	19.1 C
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M27B SJ13369 03/15/96	WELL M27B SJ17914 06/10/96	WELL M27B SJ17915 06/10/96	WELL M27B SJ21531 09/10/96	WELL M27B SJ21532 09/10/96	WELL M27B SJ25304 12/16/96
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ13370 03/15/96	WELL M29B SJ13371 03/15/96	WELL M29B SJ17916 06/10/96	WELL M29B SJ21302 09/04/96	WELL M29B SJ21303 09/04/96	WELL M29B SJ25305 12/16/96
FIELD PARAMETERS							
DEPTH TO WATER	FT	59.47		59.34	57.7		60.9
DEPTH TO BOTTOM	FT	101.2		100.5	100.6		100.4
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1	< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	19		20	20		21
FIELD WATER TEMPERATURE	DEG C	21.07		22.74	21.59		19.91
FIELD PH	PH	7.05		7	7.05		6.92
FIELD CONDUCTIVITY	UMHOS/CM	901		959	939		968
FIELD DISSOLVED O2	MG/L	1.08		1.22	0.83		1.85
GENERAL							
PH	PH	7.46	7.42	7.27	7.29 B	7.36	7.55
TOTAL DISSOLVED SOLIDS	MG/L	670	675	655	657	662	653
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	0.08 A
SULFATE	MG/L SO4	219 A	219 A	223 A	222 A	224 A	219 A
CHLORIDE	MG/L CL	29.0 A	28.9 A	27.8 A	27.2 A	27.2 A	25.4 A
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M29B SJ13370 03/15/96	WELL M29B SJ13371 03/15/96	WELL M29B SJ17916 06/10/96	WELL M29B SJ21302 09/04/96	WELL M29B SJ21303 09/04/96	WELL M29B SJ25305 12/16/96
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA

BARRIER 3 MONITORING WELLS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ13559 03/20/96	WELL M31A SJ18501 06/24/96	WELL M31A SJ18502 06/24/96	WELL M31A SJ21367 09/05/96	WELL M31A SJ24964 12/06/96	WELL M31A SJ24965 12/06/96
FIELD PARAMETERS							
DEPTH TO WATER	FT	45.95	48.04		48.6	48.9	
DEPTH TO BOTTOM	FT	76.39	76.39		76.3	76.39	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1		< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	21	17		16	19	
FIELD WATER TEMPERATURE	DEG C	22.92	21.29		21.74	20.27	
FIELD PH	PH	6.4	6.32		6.58	6.56	
FIELD CONDUCTIVITY	UMHOS/CM	3025	3254		3396	3558	
FIELD DISSOLVED O2	MG/L	0.34	0.27		0.18	0.38	
GENERAL							
PH	PH	6.91	7.00	6.96	7.17	7.04 B	7.10
TOTAL DISSOLVED SOLIDS	MG/L	2554	3072	3068	3146	2980	2990
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05 A	< 0.05 A	0.12 A	< 0.05 A	0.06 A
SULFATE	MG/L SO4	1020 A	1360 A	1360 A	1430 A	1300 A	1300 A
CHLORIDE	MG/L CL	194 A	193 A	193 A	187 A	185 A	185 A
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	3	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	1	3	4	3	2	2
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	0.5	0.5	0.6	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M31A SJ13559 03/20/96	WELL M31A SJ18501 06/24/96	WELL M31A SJ18502 06/24/96	WELL M31A SJ21367 09/05/96	WELL M31A SJ24964 12/06/96	WELL M31A SJ24965 12/06/96
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		0.5	0.4	0.4	< 0.3	< 0.3	< 0.3
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		5	11	14	7	4	4
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ13230 03/13/96	WELL R32B SJ18516 06/24/96	WELL R32B SJ21364 09/05/96	WELL R32B SJ21365 09/05/96	WELL R32B SJ24984 12/06/96
FIELD PARAMETERS						
DEPTH TO WATER	FT	33.59	34.77	34.83		35.06
DEPTH TO BOTTOM	FT	130.3	129.6	129.6		129.5
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	11	16	15		17
FIELD WATER TEMPERATURE	DEG C	20.78	23.15	24.2		20.38
FIELD PH	PH	7.21	7.28	7.25		7.19
FIELD CONDUCTIVITY	UMHOS/CM	3400	3656	3414		3636
FIELD DISSOLVED O2	MG/L	0.22	0.18	0.25		0.24
GENERAL						
PH	PH	7.57 A	7.61	7.81 A	7.77	7.69
TOTAL DISSOLVED SOLIDS	MG/L	3106	2922 C	3014	3006	3060
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05 B	< 0.05 B	< 0.05 B	< 0.05 B	< 0.05 B
SULFATE	MG/L SO4	1630 B	1590 B	1600 B	1610 B	1580 B
CHLORIDE	MG/L CL	268 B	271 B	273 B	274 B	262 B
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL R32B SJ13230 03/13/96	WELL R32B SJ18516 06/24/96	WELL R32B SJ21364 09/05/96	WELL R32B SJ21365 09/05/96	WELL R32B SJ24984 12/06/96
VOLATILE ORGANIC COMPOUNDS							
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ13560 03/20/96	WELL M33A SJ13561 03/20/96	WELL M33A SJ18503 06/24/96	WELL M33A SJ21368 09/05/96	WELL M33A SJ24701 12/02/96	WELL M33A SJ24702 12/02/96
FIELD PARAMETERS							
DEPTH TO WATER	FT	47.79		49.63	50.1	50.45	
DEPTH TO BOTTOM	FT	81.03		81.05	80.9	80.91	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	21		18	18	17	
FIELD WATER TEMPERATURE	DEG C	22.69		22.17	22.35	20.14	
FIELD PH	PH	6.45		6.52	6.76	6.67	
FIELD CONDUCTIVITY	UMHOS/CM	2505		2353	2478	2551	
FIELD DISSOLVED O2	MG/L	0.65		0.16	0.23	0.46	
GENERAL							
PH	PH	6.99	7.08	7.19	7.30	7.05 C	7.08
TOTAL DISSOLVED SOLIDS	MG/L	1961	1956 B	1857	1860 B	1899	1923
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05 A	0.22 A	0.17 A	< 0.05 A	< 0.05 A
SULFATE	MG/L SO4	651 A	648 A	630 A	608 A	615 A	623 A
CHLORIDE	MG/L CL	202 A	200 A	187 A	186 A	196 A	197 A
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	0.6	0.6	0.6	< 0.3	0.4	0.4

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M33A SJ13560 03/20/96	WELL M33A SJ13561 03/20/96	WELL M33A SJ18503 06/24/96	WELL M33A SJ21368 09/05/96	WELL M33A SJ24701 12/02/96	WELL M33A SJ24702 12/02/96
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		1	1	1	< 0.3	0.8	0.9
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		1	1	1	< 1	2	2
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ13231 03/13/96	WELL R34B SJ13232 03/13/96	WELL R34B SJ18515 06/24/96	WELL R34B SJ21622 09/11/96	WELL R34B SJ21623 09/11/96	WELL R34B SJ24985 12/06/96
FIELD PARAMETERS							
DEPTH TO WATER	FT	47.79		50.35	49.6		49.76
DEPTH TO BOTTOM	FT	130.1		129.7	129.6		129.8
PERCENT METHANE IN GAS	%CH4	0.8		< 0.1	< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	12		21	17		19
FIELD WATER TEMPERATURE	DEG C	20.17		22.23	25.54		20.27
FIELD PH	PH	7.17		7.26	7.18		7.12
FIELD CONDUCTIVITY	UMHOS/CM	3410		3696	3222		3684
FIELD DISSOLVED O2	MG/L	0.57		0.83	0.47		0.31
GENERAL							
PH	PH	7.52	7.56	7.65	7.70	7.71	7.69
TOTAL DISSOLVED SOLIDS	MG/L	3117	3114	3004	2948	2962	3016 B
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A
SULFATE	MG/L SO4	1620 A	1610 A	1600 A	1500 A	1640 A	1600 A
CHLORIDE	MG/L CL	286 A	284 A	285 A	267 A	280 A	282 A
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-AVERAGE B-DUP & SPIKE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL R34B SJ13231 03/13/96	WELL R34B SJ13232 03/13/96	WELL R34B SJ18515 06/24/96	WELL R34B SJ21622 09/11/96	WELL R34B SJ21623 09/11/96	WELL R34B SJ24985 12/06/96
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-DUP & SPIKE

TABLE A.4

WATER QUALITY DATA

BARRIER 4 MONITORING WELLS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ13374 03/15/96	WELL M41A SJ17740 06/05/96	WELL M41A SJ19310 07/16/96	WELL M41A SJ21318 09/04/96	WELL M41A SJ24710 12/02/96
FIELD PARAMETERS						
DEPTH TO WATER	FT	43.49	43.3	45.2	48.65	45.55
DEPTH TO BOTTOM	FT	59.27	59.27	58.8	58.82	59.1
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	18	21	19	20
FIELD WATER TEMPERATURE	DEG C	19.4	24.03	21.38	21.3	19.8
FIELD PH	PH	7.08	7.2	6.98	7.07	6.98
FIELD CONDUCTIVITY	UMHOS/CM	2980	3072	3315	3324	3755
FIELD DISSOLVED O2	MG/L	1.18	0.57	0.35	2.57	0.54
DISSOLVED CO2	MG/L	54	40		55	68
GENERAL						
PH	PH	7.95	7.56		7.65	7.71
CONDUCTIVITY	UMHOS/CM	2900 A	2970		3440 A	3570
TOTAL DISSOLVED SOLIDS	MG/L	2260	2354		2656	2901
TOTAL HARDNESS	MG/L CACO3	909 D	946		895	951
TOTAL CYANIDE	MG/L CN	<0.002	0.002		<0.002	<0.002
BORON	MG/L B	1.35	1.29		1.49	1.58
ANIONS						
NITRATE NITROGEN	MG/L N	0.09 B	< 0.05 B		0.67 B	0.25 B
SULFATE	MG/L SO4	1150 B	1180 B		1440 B	1560 B
CHLORIDE	MG/L CL	129 B	128 B		139 B	135 B
TOTAL ALKALINITY	MG/L CACO3	369 A	362		367	369
BICARBONATE ALKALINITY	MG/L CACO3	369	362		367	369
TOTAL SULFIDE	MG/L S	< 0.1 C	< 0.1		< 0.1	< 0.1
FLUORIDE	MG/L F	1.21	0.94		0.73	0.69 A
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3	444 F	464		442	494
MAGNESIUM-HARDNESS	MG/L CACO3	465 F	482		453	457
SODIUM	MG/L NA	391 F	404		548	575
POTASSIUM	MG/L K	12.0 F	12.2		10.2	11.1
IRON	MG/L FE	3.06 F	3.31		2.65	0.17
MANGANESE	MG/L MN	0.24 F	0.25		0.13	0.09
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1		< 0.1	< 0.1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-CALCULATED VALUE E-CHECK NOTES TO USER
F-DUPLICATE SPIKE G-10% RULE EXCEEDED

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ13374 03/15/96	WELL M41A SJ17740 06/05/96	WELL M41A SJ19310 07/16/96	WELL M41A SJ21318 09/04/96	WELL M41A SJ24710 12/02/96
ORGANIC MATTER						
TOTAL BOD	MG/L O	< 0.7	1		2	< 0.7 A
SOLUBLE BOD	MG/L O	< 0.7 A	1		1	< 0.7
TOTAL COD	MG/L O	10 A	8		8	< 2
SOLUBLE COD	MG/L O	8	7		6	< 2
TOTAL ORGANIC CARBON	MG/L C	3.1	2.0		1.5 F	1.6
OIL & GREASE	MG/L EXTRAC	2.2	< 1		< 1	< 1 F
TOTAL ORGANIC HALOGEN(TOX	UG/L	27 E	23 G		10	21 G
METALS						
ARSENIC	MG/L AS	.0031	.0035		.0041	.0041
BARIUM	MG/L BA	0.04 F	0.04		0.04	0.02
CADMIUM	MG/L CD	<0.003 F	<0.003		<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01 F	< 0.01		< 0.01	< 0.01
COBALT	MG/L CO	< 0.01 F	< 0.01		< 0.01	< 0.01
COPPER	MG/L CU	< 0.01 F	< 0.01		< 0.01	< 0.01
LEAD	MG/L PB	< 0.02 F	< 0.02		< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001		<.0001	<.0001
NICKEL	MG/L NI	< 0.02 F	< 0.02		< 0.02	< 0.02
SELENIUM	MG/L SE	<.0010	<.0010		<.0010	<.0010
SILVER	MG/L AG	< 0.01 F	< 0.01		< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01 F	0.03		0.02	< 0.01
ANTIMONY	MG/L SB	.0008	.0005		.0007	.0006
BERYLLIUM	MG/L BE	<.0005 F	<.0005 F		<.0005	<.0005 F
THALLIUM	MG/L TL	<0.002 F	<0.002 F		<0.002	<0.001 F
TIN	MG/L SN	< 0.06 F	< 0.06		< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05 F	< 0.05		< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L		< 0.05		< 0.05	< 0.05
DINOSEB	UG/L		< 0.1		< 0.1	< 0.1
THIONAZIN	UG/L		< 1		< 1	< 1
DIMETHOATE	UG/L		< 1		< 1	< 1
DISULFOTON	UG/L		< 1		< 1	< 1
METHYL PARATHION	UG/L		< 1		< 1	< 1
ETHYL PARATHION	UG/L		< 1		< 1	< 1
PHORATE	UG/L		< 1		< 1	< 1
PP'-DDE	UG/L		< 0.01		< 0.01	< 0.01
PP'-DDD	UG/L		< 0.01		< 0.01	< 0.01
PP'-DDT	UG/L		< 0.01		< 0.01	< 0.01

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-CALCULATED VALUE E-CHECK NOTES TO USER
F-DUPLICATE SPIKE G-10% RULE EXCEEDED

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ13374 03/15/96	WELL M41A SJ17740 06/05/96	WELL M41A SJ19310 07/16/96	WELL M41A SJ21318 09/04/96	WELL M41A SJ24710 12/02/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L		< 0.01		< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L		< 0.01		< 0.01	< 0.01
HEPTACHLOR	UG/L		< 0.01		< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L		< 0.01		< 0.01	< 0.01
ALDRIN	UG/L		< 0.01		< 0.01	< 0.01
DIELDRIN	UG/L		< 0.01		< 0.01	< 0.01
ENDRIN	UG/L		< 0.01		< 0.01	< 0.01
TOXAPHENE	UG/L		< 0.5		< 0.5	< 0.5
METHOXYCLOR	UG/L		< 0.01		< 0.01	< 0.01
2,4-D(ACID)	UG/L		< 0.5		< 0.5	< 0.5
2,4,5-TP(SILVEX)	UG/L		< 0.05		< 0.05	< 0.05
AROCLOR 1242	UG/L		< 0.1		< 0.1	< 0.1
AROCLOR 1254	UG/L		< 0.05		< 0.05	< 0.05
BETA-BHC	UG/L		< 0.01		< 0.01	< 0.01
DELTA-BHC	UG/L		< 0.01		< 0.01	< 0.01
ENDOSULFAN I	UG/L		< 0.01		< 0.01	< 0.01
ENDOSULFAN II	UG/L		< 0.01		< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L		< 0.1		< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L		< 0.01		< 0.01	< 0.01
AROCLOR 1016	UG/L		< 0.1		< 0.1	< 0.1
AROCLOR 1221	UG/L		< 0.1		< 0.1	< 0.1
AROCLOR 1232	UG/L		< 0.1		< 0.1	< 0.1
AROCLOR 1248	UG/L		< 0.1		< 0.1	< 0.1
AROCLOR 1260	UG/L		< 0.1		< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L		< 0.05		< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L		< 1		< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1		< 1	< 1
CHLOROPRENE	UG/L		< 1		< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01		< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1		< 1	< 1
1,3-DICHLOROPROPANE	UG/L		< 0.3		< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L		< 1		< 1	< 1
1,1-DICHLOROPROPENE	UG/L		< 1		< 1	< 1
ISOBUTYL ALCOHOL	UG/L		< 10		< 10	< 10
METHACRYLONITRILE	UG/L		< 10		< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1		< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1		< 1	< 1
PROPIONITRILE	UG/L		< 10		< 10	< 10

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-CALCULATED VALUE E-CHECK NOTES TO USER
F-DUPLICATE SPIKE G-10% RULE EXCEEDED

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ13374 03/15/96	WELL M41A SJ17740 06/05/96	WELL M41A SJ19310 07/16/96	WELL M41A SJ21318 09/04/96	WELL M41A SJ24710 12/02/96
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	
METHYL METHACRYLATE	UG/L		< 10	< 10	< 10	
ETHYL METHACRYLATE	UG/L		< 5	< 5	< 5	
METHYLENE CHLORIDE	UG/L	< 1	2	< 1	< 1	
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	
M-DICHLOROBENZENE	UG/L		< 1	< 1	< 1	
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	
TOLUENE	UG/L	< 1	< 1	< 1	< 1	
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	
2-CHLOROETHYLVINYLETHER	UG/L		< 1	< 1	< 1	
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	
ACROLEIN	UG/L		< 10	< 10	< 10	
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	
ACETONITRILE	UG/L		< 20	< 20	< 20	
FREON 12 (CCL2F2)	UG/L		< 1	< 1	< 1	
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-CALCULATED VALUE E-CHECK NOTES TO USER
F-DUPLICATE SPIKE G-10% RULE EXCEEDED

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M41A SJ13374 03/15/96	WELL M41A SJ17740 06/05/96	WELL M41A SJ19310 07/16/96	WELL M41A SJ21318 09/04/96	WELL M41A SJ24710 12/02/96
VOLATILE ORGANIC COMPOUNDS							
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01		< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10		< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1		< 1	< 1
2-BUTANONE	UG/L		< 10	< 10		< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10		< 10	< 10
STYRENE	UG/L		< 1	< 1		< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L			< 2		< 2	< 2
M+P-XYLENE	UG/L		< 1	< 1		< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1		< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5		< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L			< 4	< 9	< 4	< 4
2-ACETYLAMINOFLUORENE	UG/L			< 3	< 7	< 3	< 3
4-AMINOBIPHENYL	UG/L			< 5	< 12	< 5	< 5
BENZYL ALCOHOL	UG/L			< 5	< 12	< 5	< 5
P-CHLOROANILINE	UG/L			< 6	< 14	< 6	< 6
CHLOROBENZILATE	UG/L			< 3	< 7	< 3	< 3
DIALLATE	UG/L			< 4	< 9	< 4	< 4
DIBENZOFURAN	UG/L			< 4	< 9	< 4	< 4
2,6-DICHLOROPHENOL	UG/L			< 3	< 7	< 5	< 3
P(DIMETHYLAMINO)AZOBENZEN	UG/L			< 4	< 9	< 4	< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			< 15	< 35	< 15	< 15
3,3'-DIMETHYLBENZIDINE	UG/L			< 4	< 9	< 4	< 4
M-DINITROBENZENE	UG/L			< 4	< 9	< 14	< 4
DIPHENYLAMINE	UG/L			< 10	< 23	< 10	< 10
ETHYL METHANESULFONATE	UG/L			< 4	< 9	< 4	< 4
FAMPHUR	UG/L			< 50	< 120	< 1	< 50
HEXACHLOROPROPENE	UG/L			< 20	< 47	< 20	< 20
ISODRIN	UG/L			< 5	< 12	< 5	< 5
ISOSAFROLE	UG/L			< 5	< 12	< 5	< 5
KEPONE	UG/L			< 50	< 120	< 50	< 50
METHAPYRILENE	UG/L			< 5	< 12	< 5	< 5
3-METHYLCHOLANTHRENE	UG/L			< 13	< 30	< 13	< 13
METHYL METHANESULFONATE	UG/L			< 11	< 26	< 11	< 11
2-METHYLNAPHTHALENE	UG/L			< 5	< 12	< 5	< 5
1,4-NAPHTHOQUINONE	UG/L			< 8	< 19	< 8	< 8
1-NAPHTHYLAMINE	UG/L			< 4	< 9	< 2	< 4
2-NAPHTHYLAMINE	UG/L			< 4	< 9	< 1	< 4
O-NITROANILINE	UG/L			< 4	< 9	< 4	< 4

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-CALCULATED VALUE E-CHECK NOTES TO USER
F-DUPLICATE SPIKE G-10% RULE EXCEEDED

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ13374 03/15/96	WELL M41A SJ17740 06/05/96	WELL M41A SJ19310 07/16/96	WELL M41A SJ21318 09/04/96	WELL M41A SJ24710 12/02/96
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L		< 4	< 9	< 4	< 4
P-NITROANILINE	UG/L		< 4	< 9	< 4	< 4
N-NITROSODI-N-BUTYLAMINE	UG/L		< 5	< 12	< 15	< 5
N-NITROSODIETHYLAMINE	UG/L		< 5	< 12	< 5	< 5
N-NITROSOMETHYLETHYLAMINE	UG/L		< 6	< 14	< 6	< 6
N-NITROSOPIPERIDINE	UG/L		< 5	< 12	< 5	< 5
N-NITROSOPYRROLIDINE	UG/L		< 5	< 12	< 5	< 5
5-NITRO-O-TOLUIDINE	UG/L		< 5	< 12	< 5	< 5
PENTACHLOROBENZENE	UG/L		< 4	< 9	< 4	< 4
PENTACHLORONITROBENZENE	UG/L		< 4	< 9	< 4	< 4
PHENACETIN	UG/L		< 4	< 9	< 4	< 4
P-PHENYLENEDIAMINE	UG/L		< 20	< 47	< 20	< 20
PRONAMIDE	UG/L		< 5	< 12	< 5	< 5
SAFROLE	UG/L		< 5	< 12	< 5	< 5
1,2,4,5-TETRACHLOROBENZEN	UG/L		< 5	< 12	< 5	< 5
2,3,4,6-TETRACHLOROPHENOL	UG/L		< 5	< 12	< 5	< 5
O-TOLUIDINE	UG/L		< 5	< 12	< 5	< 5
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		< 5	< 12	< 5	< 5
SYM-TRINITROBENZENE	UG/L		< 48	< 110	< 48	< 48
ACENAPHTHENE	UG/L		< 2	< 5	< 2	< 2
ACENAPHTHYLENE	UG/L		< 2	< 5	< 2	< 2
ANTHRACENE	UG/L		< 2	< 5	< 2	< 2
BENZIDINE	UG/L		< 62	< 140	< 62	< 62
BENZO(A)ANTHRACENE	UG/L		< 2	< 5	< 2	< 2
BENZO(A)PYRENE	UG/L		< 0.3	< 0.7	< 0.3	< 0.3
BENZO(B)FLUORANTHENE	UG/L		< 2	< 5	< 2	< 2
BENZO(G,H,I,)PERYLENE	UG/L		< 1	< 2	< 1	< 1
BENZO(K)FLUORANTHENE	UG/L		< 2	< 5	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L		< 2	< 5	< 2	< 2
BIS(2-CHLOROETHYL)ETHER	UG/L		< 1	< 2	< 1	< 1
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 7	< 16	< 7	< 7
DIETHYLHEXYL PHTHALATE	UG/L	< 1	100	< 2	< 1	< 1
4-BROMOPHENYL PHENYLETHER	UG/L		< 2	< 5	< 2	< 2
BUTYLBENZYL PHTHALATE	UG/L		< 2	< 5	< 2	< 2
2-CHLORONAPHTHALENE	UG/L		< 3	< 7	< 3	< 3
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2	< 5	< 2	< 2
CHRYSENE	UG/L		< 1	< 2	< 1	< 1
DIBENZO(A,H)ANTHRACENE	UG/L		< 1	< 2	< 1	< 1
3,3'-DICHLOROBENZIDINE	UG/L		< 14	< 33	< 14	< 14
DIETHYL PHTHALATE	UG/L		< 2	< 5	< 2	< 2
DIMETHYL PHTHALATE	UG/L		< 2	< 5	< 2	< 2

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-CALCULATED VALUE E-CHECK NOTES TO USER
F-DUPLICATE SPIKE G-10% RULE EXCEEDED

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ13374 03/15/96		WELL M41A SJ17740 06/05/96		WELL M41A SJ19310 07/16/96		WELL M41A SJ21318 09/04/96		WELL M41A SJ24710 12/02/96	
ACID-BASE NEUTRAL EXTRACTABLE											
DI-N-BUTYL PHTHALATE	UG/L			1	<	2	<	1	<	1	
2,4-DINITROTOLUENE	UG/L		<	2	<	5	<	2	<	2	
2,6-DINITROTOLUENE	UG/L		<	2	<	5	<	2	<	2	
DI-N-OCTYL PHTHALATE	UG/L		<	2	<	5	<	2	<	2	
FLUORANTHENE	UG/L		<	2	<	5	<	2	<	2	
FLUORENE	UG/L		<	2	<	5	<	2	<	2	
HEXACHLOROBENZENE	UG/L		<	1	<	2	<	1	<	1	
HEXACHLOROBUTADIENE	UG/L		<	4	<	9	<	4	<	4	
HEXACHLOROCYCLOPENTADIENE	UG/L		<	30	<	70	<	30	<	30	
HEXACHLOROETHANE	UG/L		<	4	<	9	<	4	<	4	
INDENO(1,2,3-C,D)PYRENE	UG/L		<	2	<	5	<	2	<	2	
ISOPHORONE	UG/L		<	1	<	2	<	1	<	1	
NAPHTHALENE	UG/L		<	3	<	7	<	3	<	3	
NITROBENZENE	UG/L		<	2	<	5	<	2	<	2	
N-NITROSODIMETHYLAMINE	UG/L		<	1	<	2	<	1	<	1	
N-NITROSODI-N-PROPYLAMINE	UG/L		<	3	<	7	<	3	<	3	
PHENANTHRENE	UG/L		<	2	<	5	<	2	<	2	
PYRENE	UG/L		<	1	<	2	<	1	<	1	
2-CHLOROPHENOL	UG/L		<	2	<	5	<	2	<	2	
1,2,4-TRICHLOROBENZENE	UG/L		<	4	<	9	<	4	<	4	
2,4-DICHLOROPHENOL	UG/L		<	2	<	5	<	2	<	2	
2,4-DIMETHYLPHENOL	UG/L		<	2	<	5	<	2	<	2	
2,4-DINITROPHENOL	UG/L		<	19	<	44	<	19	<	19	
2-METHYL-4,6DINITROPHENOL	UG/L		<	2	<	5	<	2	<	2	
2-NITROPHENOL	UG/L		<	3	<	7	<	3	<	3	
4-NITROPHENOL	UG/L		<	18	<	42	<	18	<	18	
4-CHLORO-3-METHYLPHENOL	UG/L		<	2	<	5	<	2	<	2	
PENTACHLOROPHENOL	UG/L		<	0.1			<	0.1	<	0.1	
PHENOL	UG/L		<	2	<	5	<	2	<	2	
2,4,6-TRICHLOROPHENOL	UG/L		<	2	<	5	<	2	<	2	
N-NITROSODIPHENYLAMINE	UG/L		<	2	<	5	<	2	<	2	
O-CRESOL	UG/L		<	4	<	9	<	4	<	4	
M+P CRESOL	UG/L		<	3	<	7	<	3	<	3	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-CALCULATED VALUE E-CHECK NOTES TO USER
F-DUPLICATE SPIKE G-10% RULE EXCEEDED

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M41A SJ13373 03/15/96	WEFI M41A SJ17737 06/05/96	WEFI M41A SJ21317 09/04/96	WEFI M41A SJ24709 12/02/96
CATIONS					
IRON	MG/L FE	< 0.02	0.04	< 0.02	< 0.02 A
MANGANESE	MG/L MN	0.18	0.185	0.10	0.09 A
METALS					
ARSENIC	MG/L AS	.0030	.0026	.0034	.0042
BARIUM	MG/L BA	0.02	0.02	0.03	0.02 A
CADMIUM	MG/L CD	0.003	<0.003	<0.003	<0.003 A
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01 A
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01 A
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01 A
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02 A
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02 A
SELENIUM	MG/L SE	<.0010	<.0010	<.0010	<.0010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01 A
ZINC	MG/L ZN	< 0.01	0.02	0.02	< 0.01 A
ANTIMONY	MG/L SB	.0007	<.0005	.0006	.0005
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005 A	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 A	<0.001
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06 A
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05 A

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ13553 03/20/96	WELL M42A SJ17749 06/05/96	WELL M42A SJ21637 09/11/96	WELL M42A SJ24799 12/03/96
FIELD PARAMETERS					
DEPTH TO WATER	FT	40.51	40.41	40.38	39.61
DEPTH TO BOTTOM	FT	58.12	57.47	57.47	57.4
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	14	17	19	17
FIELD WATER TEMPERATURE	DEG C	22.57	22.5	22.47	21.07
FIELD PH	PH	7.32	7.34	7.28	7.07
FIELD CONDUCTIVITY	UMHOS/CM	3702	3516	3965	4179
FIELD DISSOLVED O2	MG/L	0.64	0.25	0.3	0.34
DISSOLVED CO2	MG/L	31	29	32	49
GENERAL					
PH	PH	7.74	7.68	7.55	7.23
CONDUCTIVITY	UMHOS/CM	3620 A	3660	3800	3760
TOTAL DISSOLVED SOLIDS	MG/L	2767	2815	3056 A	3485
TOTAL HARDNESS	MG/L CACO3	723 D	786	1024	1209
TOTAL CYANIDE	MG/L CN	<0.002	<0.002	<0.002	<0.002
BORON	MG/L B	1.52	1.57	1.55	1.63
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05 C	< 0.05 C	0.21 C
SULFATE	MG/L SO4	1440 C	1500 C	1730 C	1740 C
CHLORIDE	MG/L CL	159 C	156 C	154 C	143 C
TOTAL ALKALINITY	MG/L CACO3	374	362	349	329
BICARBONATE ALKALINITY	MG/L CACO3	374	362	349	329
TOTAL SULFIDE	MG/L S	< 0.1 B	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	1.01	0.84	0.62	0.65
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	380	407	542 F	662 F
MAGNESIUM-HARDNESS	MG/L CACO3	343	379	482 F	547 F
SODIUM	MG/L NA	640	631	611 F	673 F
POTASSIUM	MG/L K	13.5	13.2	14.5 F	15.8 F
IRON	MG/L FE	1.91	1.20	0.93 F	0.56 F
MANGANESE	MG/L MN	0.10	0.03	0.05 F	0.05 F
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ13553 03/20/96	WELL M42A SJ17749 06/05/96	WELL M42A SJ21637 09/11/96	WELL M42A SJ24799 12/03/96
ORGANIC MATTER					
TOTAL BOD	MG/L O	1 A	1	1 A	< 0.7
SOLUBLE BOD	MG/L O	1	< 0.7	1	< 0.7
TOTAL COD	MG/L O	10 A	10	10 A	11 A
SOLUBLE COD	MG/L O	8	8	10	9
TOTAL ORGANIC CARBON	MG/L C	2.9 C	2.1	1.8 F	1.6
OIL & GREASE	MG/L EXTRAC	4.1	< 1	< 1	< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L	28 E	13 E	33 G	39 G
METALS					
ARSENIC	MG/L AS	.0087	.0080	.0037	.0033
BARIUM	MG/L BA	0.03	0.02	0.02 F	0.02 F
CADMIUM	MG/L CD	<0.003	<0.003	<0.003 F	<0.003 F
TOTAL CHROMIUM	MG/L CR	0.02	< 0.01	< 0.01 F	< 0.01 F
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01 F	< 0.01 F
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01 F	< 0.01 F
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02 F	< 0.02 F
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	0.02	< 0.02	< 0.02 F	< 0.02 F
SELENIUM	MG/L SE	<.0010	<.0010	<.0010	<.0010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01 F	< 0.01 F
ZINC	MG/L ZN	0.02	0.02	0.01 F	0.01 F
ANTIMONY	MG/L SB	.0014	.0010	.0009	.0009
BERYLLIUM	MG/L BE	<.0005 F	<.0005	<.0005	<.0005 F
THALLIUM	MG/L TL	<0.002 F	<0.002	<0.002	<0.001 F
TIN	MG/L SN	< 0.06	< 0.06	< 0.06 F	< 0.06 F
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05 F	< 0.05 F
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L		< 0.05	< 0.05	< 0.05
DINOSEB	UG/L		< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L		< 1	< 1	< 1
DIMETHOATE	UG/L		< 1	< 1	< 1
DISULFOTON	UG/L		< 1	< 1	< 1
METHYL PARATHION	UG/L		< 1	< 1	< 1
ETHYL PARATHION	UG/L		< 1	< 1	< 1
PHORATE	UG/L		< 1	< 1	< 1
PP'-DDE	UG/L		< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L		< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L		< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ13553 03/20/96	WELL M42A SJ17749 06/05/96	WELL M42A SJ21637 09/11/96	WELL M42A SJ24799 12/03/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L		< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L		< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L		< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L		< 0.01	< 0.01	< 0.01
ALDRIN	UG/L		< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L		< 0.01	< 0.01	< 0.01
ENDRIN	UG/L		< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L		< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L		< 0.01	< 0.01	< 0.01
2,4-D(ACID)	UG/L		< 0.5	< 0.5	< 0.5
2,4,5-TP(SILVEX)	UG/L		< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L		< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L		< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L		< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L		< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L		< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L		< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L		< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L		< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L		< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L		< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L		< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L		< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L		< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L		< 10	< 10	< 10
METHACRYLONITRILE	UG/L		< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L		< 10	< 10	< 10

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ13553 03/20/96	WELL M42A SJ17749 06/05/96	WELL M42A SJ21637 09/11/96	WELL M42A SJ24799 12/03/96
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L		< 10	< 10	< 10
ETHYL METHACRYLATE	UG/L		< 5	< 5	< 5
METHYLENE CHLORIDE	UG/L	< 1	3	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L		< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L		< 10	< 10	< 10
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L		< 20	< 20	< 20
FREON 12 (CCL2F2)	UG/L		< 1	< 1	< 1
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ13553 03/20/96	WELL M42A SJ17749 06/05/96	WELL M42A SJ21637 09/11/96	WELL M42A SJ24799 12/03/96
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L		< 2	< 2	< 2
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L		< 4	< 4	< 4
2-ACETYLAMINOFLUORENE	UG/L		< 3	< 3	< 3
4-AMINOBIPHENYL	UG/L		< 5	< 5	< 5
BENZYL ALCOHOL	UG/L		< 5	< 5	< 5
P-CHLOROANILINE	UG/L		< 6	< 6	< 6
CHLOROBENZILATE	UG/L		< 3	< 3	< 3
DIALLATE	UG/L		< 4	< 4	< 4
DIBENZOFURAN	UG/L		< 4	< 4	< 4
2,6-DICHLOROPHENOL	UG/L		< 3	< 3	< 5
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4	< 4	< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15	< 15	< 15
3,3'-DIMETHYLBENZIDINE	UG/L		< 4	< 4	< 4
M-DINITROBENZENE	UG/L		< 4	< 4	< 4
DIPHENYLAMINE	UG/L		< 10	< 10	< 10
ETHYL METHANESULFONATE	UG/L		< 4	< 4	< 4
FAMPHUR	UG/L		< 50	< 50	< 50
HEXACHLOROPROPENE	UG/L		< 20	< 20	< 20
ISODRIN	UG/L		< 5	< 5	< 5
ISOSAFROLE	UG/L		< 5	< 5	< 5
KEPONE	UG/L		< 50	< 50	< 50
METHAPYRILENE	UG/L		< 5	< 5	< 5
3-METHYLCHOLANTHRENE	UG/L		< 13	< 13	< 13
METHYL METHANESULFONATE	UG/L		< 11	< 11	< 11
2-METHYLNAPHTHALENE	UG/L		< 5	< 5	< 5
1,4-NAPHTHOQUINONE	UG/L		< 8	< 8	< 8
1-NAPHTHYLAMINE	UG/L		< 4	< 4	< 2
2-NAPHTHYLAMINE	UG/L		< 4	< 4	< 1
O-NITROANILINE	UG/L		< 4	< 4	< 4

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ13553 03/20/96	WELL M42A SJ17749 06/05/96	WELL M42A SJ21637 09/11/96	WELL M42A SJ24799 12/03/96
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L		< 4	< 4	< 4
P-NITROANILINE	UG/L		< 4	< 4	< 4
N-NITROSODI-N-BUTYLAMINE	UG/L		< 5	< 5	< 5
N-NITROSODIETHYLAMINE	UG/L		< 5	< 5	< 5
N-NITROSOMETHYLETHYLAMINE	UG/L		< 6	< 6	< 6
N-NITROSOPIPERIDINE	UG/L		< 5	< 5	< 5
N-NITROSOPYRROLIDINE	UG/L		< 5	< 5	< 5
5-NITRO-O-TOLUIDINE	UG/L		< 5	< 5	< 5
PENTACHLOROBENZENE	UG/L		< 4	< 4	< 4
PENTACHLORONITROBENZENE	UG/L		< 4	< 4	< 4
PHENACETIN	UG/L		< 4	< 4	< 4
P-PHENYLENEDIAMINE	UG/L		< 20	< 20	< 20
PRONAMIDE	UG/L		< 5	< 5	< 5
SAFROLE	UG/L		< 5	< 5	< 5
1,2,4,5-TETRACHLOROBENZEN	UG/L		< 5	< 5	< 5
2,3,4,6-TETRACHLOROPHENOL	UG/L		< 5	< 5	< 5
O-TOLUIDINE	UG/L		< 5	< 5	< 5
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		< 5	< 5	< 5
SYM-TRINITROBENZENE	UG/L		< 48	< 48	< 48
ACENAPHTHENE	UG/L		< 2	< 2	< 2
ACENAPHTHYLENE	UG/L		< 2	< 2	< 2
ANTHRACENE	UG/L		< 2	< 2	< 2
BENZIDINE	UG/L		< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L		< 2	< 2	< 2
BENZO(A)PYRENE	UG/L		< 0.3	< 0.3	< 0.3
BENZO(B)FLUORANTHENE	UG/L		< 2	< 2	< 2
BENZO(G.H.I.)PERYLENE	UG/L		< 1	< 1	< 1
BENZO(K)FLUORANTHENE	UG/L		< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L		< 2	< 2	< 2
BIS(2-CHLOROETHYL)ETHER	UG/L		< 1	< 1	< 1
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 7	< 7	< 7
DIETHYLHEXYL PHTHALATE	UG/L		2	< 1	< 1
4-BROMOPHENYL PHENYLETHER	UG/L		< 2	< 2	< 2
BUTYLBENZYL PHTHALATE	UG/L		< 2	< 2	< 2
2-CHLORONAPHTHALENE	UG/L		< 3	< 3	< 3
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2	< 2	< 2
CHRYSENE	UG/L		< 1	< 1	< 1
DIBENZO(A,H)ANTHRACENE	UG/L		< 1	< 1	< 1
3,3'-DICHLOROBENZIDINE	UG/L		< 14	< 14	< 14
DIETHYL PHTHALATE	UG/L		< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L		< 2	< 2	< 2

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ13553 03/20/96	WELL M42A SJ17749 06/05/96	WELL M42A SJ21637 09/11/96	WELL M42A SJ24799 12/03/96
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L		< 1	< 1	< 1
2,4-DINITROTOLUENE	UG/L		< 2	< 2	< 2
2,6-DINITROTOLUENE	UG/L		< 2	< 2	< 2
DI-N-OCTYL PHTHALATE	UG/L		< 2	< 2	< 2
FLUORANTHENE	UG/L		< 2	< 2	< 2
FLUORENE	UG/L		< 2	< 2	< 2
HEXACHLOROBENZENE	UG/L		< 1	< 1	< 1
HEXACHLOROBUTADIENE	UG/L		< 4	< 4	< 4
HEXACHLOROCYCLOPENTADIENE	UG/L		< 30	< 30	< 30
HEXACHLOROETHANE	UG/L		< 4	< 4	< 4
INDENO(1,2,3-C,D)PYRENE	UG/L		< 2	< 2	< 2
ISOPHORONE	UG/L		< 1	< 1	< 1
NAPHTHALENE	UG/L		< 3	< 3	< 3
NITROBENZENE	UG/L		< 2	< 2	< 2
N-NITROSODIMETHYLAMINE	UG/L		< 1	< 1	< 1
N-NITROSODI-N-PROPYLAMINE	UG/L		< 3	< 3	< 3
PHENANTHRENE	UG/L		< 2	< 2	< 2
PYRENE	UG/L		< 1	< 1	< 1
2-CHLOROPHENOL	UG/L		< 2	< 2	< 2
1,2,4-TRICHLOROBENZENE	UG/L		< 4	< 4	< 4
2,4-DICHLOROPHENOL	UG/L		< 2	< 2	< 2
2,4-DIMETHYLPHENOL	UG/L		< 2	< 2	< 2
2,4-DINITROPHENOL	UG/L		< 19	< 19	< 19
2-METHYL-4,6DINITROPHENOL	UG/L		< 2	< 2	< 2
2-NITROPHENOL	UG/L		< 3	< 3	< 3
4-NITROPHENOL	UG/L		< 18	< 18	< 18
4-CHLORO-3-METHYLPHENOL	UG/L		< 2	< 2	< 2
PENTACHLOROPHENOL	UG/L		< 0.1	< 0.1	< 0.1
PHENOL	UG/L		< 2	< 2	< 2
2,4,6-TRICHLOROPHENOL	UG/L		< 2	< 2	< 2
N-NITROSODIPHENYLAMINE	UG/L		< 2	< 2	< 2
O-CRESOL	UG/L		< 4	< 4	< 4
M+P CRESOL	UG/L		< 3	< 3	< 3

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M42A SJ13551 03/20/96		WEFI M42A SJ17747 06/05/96		WEFI M42A SJ21636 09/11/96		WEFI M42A SJ24798 12/03/96	
CATIONS									
IRON	MG/L FE	< 0.02	B	< 0.02		< 0.02		< 0.02	
MANGANESE	MG/L MN	0.06	A	0.01		0.03		0.03	
METALS									
ARSENIC	MG/L AS	.0080		.0072		.0037		.0029	
BARIUM	MG/L BA	0.02	A	0.02		0.02		0.02	
CADMIUM	MG/L CD	<0.003	A	<0.003		<0.003		<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	B	< 0.01		< 0.01		< 0.01	
COBALT	MG/L CO	< 0.01	A	< 0.01		< 0.01		< 0.01	
COPPER	MG/L CU	< 0.01	A	< 0.01		< 0.01		< 0.01	
LEAD	MG/L PB	< 0.02	A	< 0.02		< 0.02		< 0.02	
MERCURY	MG/L HG	<.0001		<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.02	A	< 0.02		< 0.02		< 0.02	
SELENIUM	MG/L SE	<.0010		<.0010		<.0010		.0012	
SILVER	MG/L AG	< 0.01	A	< 0.01		< 0.01		< 0.01	
ZINC	MG/L ZN	0.01	B	0.02		0.01		< 0.01	
ANTIMONY	MG/L SB	.0014		.0008		.0009		.0008	
BERYLLIUM	MG/L BE	<.0005		<.0005		<.0005	A	<.0005	A
THALLIUM	MG/L TL	<0.002		<0.002		<0.002	A	<0.001	A
TIN	MG/L SN	< 0.06	A	< 0.06		< 0.06		< 0.06	
VANADIUM	MG/L V	< 0.05	A	< 0.05		< 0.05		< 0.05	

FOOTNOTES : A-DUPLICATE SPIKE B-INTERFERENCE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ13554 03/20/96		WELL M43A SJ17750 06/05/96		WELL M43A SJ21538 09/10/96		WELL M43A SJ24859 12/04/96	
FIELD PARAMETERS									
DEPTH TO WATER	FT	44.44		44.02		44.97		44.84	
DEPTH TO BOTTOM	FT	60.75		60.06		59.95		59.96	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1		< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	18		20		16		19	
FIELD WATER TEMPERATURE	DEG C	21.52		21.08		22.73		20.32	
FIELD PH	PH	7.42		7.35		7.32		7.2	
FIELD CONDUCTIVITY	UMHOS/CM	2873		2714		3286		1452	
FIELD DISSOLVED O2	MG/L	0.58		0.21		0.52		0.11	
DISSOLVED CO2	MG/L	29		32		40		25	
GENERAL									
PH	PH	7.78		7.43		7.86		7.50	
CONDUCTIVITY	UMHOS/CM	2770		2670	C	3090	C	1365	
TOTAL DISSOLVED SOLIDS	MG/L	2068		2128		2377		969	
TOTAL HARDNESS	MG/L CACO3	616	B	851		710		744	
TOTAL CYANIDE	MG/L CN	<0.002		<0.002		<0.002		0.003	
BORON	MG/L B	0.95	C	1.19		1.02		0.54	
ANIONS									
NITRATE NITROGEN	MG/L N	1.10	A	0.40	A	0.11	A	0.42	A
SULFATE	MG/L SO4	1000	A	1050	A	1210	A	478	A
CHLORIDE	MG/L CL	77.8	A	71.4	A	87.5	A	34.2	A
TOTAL ALKALINITY	MG/L CACO3	438		411		480		228	
BICARBONATE ALKALINITY	MG/L CACO3	436		411		480		228	
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1	F	< 0.1	
FLUORIDE	MG/L F	0.98	C	0.78		0.55		0.47	
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	285		402		340		352	
MAGNESIUM-HARDNESS	MG/L CACO3	331		449		370		392	
SODIUM	MG/L NA	499		375		557		166	
POTASSIUM	MG/L K	12.4		12.3		10.2		32.5	
IRON	MG/L FE	17.1		6.37		0.65		154	
MANGANESE	MG/L MN	0.29		0.15		0.07		2.12	
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.1		< 0.1		< 0.1		0.3	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ13554 03/20/96	WELL M43A SJ17750 06/05/96	WELL M43A SJ21538 09/10/96	WELL M43A SJ24859 12/04/96
ORGANIC MATTER					
TOTAL BOD	MG/L O	2	2	< 0.7	< 1 C
SOLUBLE BOD	MG/L O	1	1	< 0.7	1
TOTAL COD	MG/L O	14	12	11 C	43
SOLUBLE COD	MG/L O	12	7	9	21
TOTAL ORGANIC CARBON	MG/L C	3.9	1.6 E	1.0	69
OIL & GREASE	MG/L EXTRAC	42.3	< 1	< 1	< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L	14 D	20	14 D	17
METALS					
ARSENIC	MG/L AS	.0110	.0065	.0075	.0408
BARIUM	MG/L BA	0.12	0.05	0.02	0.72
CADMIUM	MG/L CD	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	0.02	< 0.01	< 0.01	0.22
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	0.05
COPPER	MG/L CU	0.02	0.01	< 0.01	0.19
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	0.06
MERCURY	MG/L HG	<.0001	<.0001	<.0001 E	.0003
NICKEL	MG/L NI	0.02	< 0.02	< 0.02	0.14
SELENIUM	MG/L SE	.0027	.0013	<.0010	.0032
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	0.07	0.03	0.08	0.49
ANTIMONY	MG/L SB	.0019	.0011	.0010	.0058
BERYLLIUM	MG/L BE	.0007	<.0005	<.0005 E	.0026 E
THALLIUM	MG/L TL	<0.002	<0.002	<0.002 E	<0.001 E
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06 A
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	0.32
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L		< 0.05	< 0.05	< 0.05
DINOSEB	UG/L		< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L		< 1	< 1	< 1
DIMETHOATE	UG/L		< 1	< 1	< 1
DISULFOTON	UG/L		< 1	< 1	< 1
METHYL PARATHION	UG/L		< 1	< 1	< 1
ETHYL PARATHION	UG/L		< 1	< 1	< 1
PHORATE	UG/L		< 1	< 1	< 1
PP'-DDE	UG/L		< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L		< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L		< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ13554 03/20/96	WELL M43A SJ17750 06/05/96	WELL M43A SJ21538 09/10/96	WELL M43A SJ24859 12/04/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L		< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L		< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L		< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L		< 0.01	< 0.01	< 0.01
ALDRIN	UG/L		< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L		< 0.01	< 0.01	< 0.01
ENDRIN	UG/L		< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L		< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L		< 0.01	< 0.01	< 0.01
2,4-D(ACID)	UG/L		< 0.5	< 0.5	< 0.5
2,4,5-TP(SILVEX)	UG/L		< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L		< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L		< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L		< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L		< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L		< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L		< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L		< 0.01	< 0.01	< 0.04
AROCLOR 1016	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L		< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L		< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L		< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L		< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L		< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L		< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L		< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L		< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L		< 10	< 10	< 10
METHACRYLONITRILE	UG/L		< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L		< 10	< 10	< 10

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ13554 03/20/96	WELL M43A SJ17750 06/05/96	WELL M43A SJ21538 09/10/96	WELL M43A SJ24859 12/04/96
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L		< 10	< 10	< 10
ETHYL METHACRYLATE	UG/L		< 5	< 5	< 5
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L		< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L		< 10	< 10	< 10
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L		< 20	< 20	< 20
FREON 12 (CCL2F2)	UG/L		< 1	< 1	< 1
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		WELL M43A SJ13554 03/20/96	WELL M43A SJ17750 06/05/96	WELL M43A SJ21538 09/10/96	WELL M43A SJ24859 12/04/96
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1	< 1	< 1	< 1
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10
STYRENE	UG/L		< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L			< 2	< 2	< 2
M+P-XYLENE	UG/L		< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L			< 4	< 4	< 4
2-ACETYLAMINOFLUORENE	UG/L			< 3	< 3	< 3
4-AMINOBIPHENYL	UG/L			< 5	< 5	< 5
BENZYL ALCOHOL	UG/L			< 5	< 5	< 5
P-CHLOROANILINE	UG/L			< 6	< 6	< 6
CHLOROBENZILATE	UG/L			< 3	< 3	< 3
DIALLATE	UG/L			< 4	< 4	< 4
DIBENZOFURAN	UG/L			< 4	< 4	< 4
2,6-DICHLOROPHENOL	UG/L			< 3	< 3	< 5
P(DIMETHYLAMINO)AZOBENZEN	UG/L			< 4	< 4	< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			< 15	< 15	< 15
3,3'-DIMETHYLBENZIDINE	UG/L			< 4	< 4	< 4
M-DINITROBENZENE	UG/L			< 4	< 4	< 4
DIPHENYLAMINE	UG/L			< 10	< 10	< 10
ETHYL METHANESULFONATE	UG/L			< 4	< 4	< 4
FAMPHUR	UG/L			< 50	< 50	< 50
HEXACHLOROPROPENE	UG/L			< 20	< 20	< 20
ISODRIN	UG/L			< 5	< 5	< 5
ISOSAFROLE	UG/L			< 5	< 5	< 5
KEPONE	UG/L			< 50	< 50	< 50
METHAPYRILENE	UG/L			< 5	< 5	< 5
3-METHYLCHOLANTHRENE	UG/L			< 13	< 13	< 13
METHYL METHANESULFONATE	UG/L			< 11	< 11	< 11
2-METHYLNAPHTHALENE	UG/L			< 5	< 5	< 5
1,4-NAPHTHOQUINONE	UG/L			< 8	< 8	< 8
1-NAPHTHYLAMINE	UG/L			< 4	< 4	< 2
2-NAPHTHYLAMINE	UG/L			< 4	< 4	< 1
O-NITROANILINE	UG/L			< 4	< 4	< 4

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ13554 03/20/96	WELL M43A SJ17750 06/05/96	WELL M43A SJ21538 09/10/96	WELL M43A SJ24859 12/04/96
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L		< 4	< 4	< 4
P-NITROANILINE	UG/L		< 4	< 4	< 4
N-NITROSODI-N-BUTYLAMINE	UG/L		< 5	< 5	< 5
N-NITROSODIETHYLAMINE	UG/L		< 5	< 5	< 5
N-NITROSOMETHYLETHYLAMINE	UG/L		< 6	< 6	< 6
N-NITROSOPIPERIDINE	UG/L		< 5	< 5	< 5
N-NITROSOPYRROLIDINE	UG/L		< 5	< 5	< 5
5-NITRO-O-TOLUIDINE	UG/L		< 5	< 5	< 5
PENTACHLOROBENZENE	UG/L		< 4	< 4	< 4
PENTACHLORONITROBENZENE	UG/L		< 4	< 4	< 4
PHENACETIN	UG/L		< 4	< 4	< 4
P-PHENYLENEDIAMINE	UG/L		< 20	< 20	< 20
PRONAMIDE	UG/L		< 5	< 5	< 5
SAFROLE	UG/L		< 5	< 5	< 5
1,2,4,5-TETRACHLOROBENZEN	UG/L		< 5	< 5	< 5
2,3,4,6-TETRACHLOROPHENOL	UG/L		< 5	< 5	< 5
O-TOLUIDINE	UG/L		< 5	< 5	< 5
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		< 5	< 5	< 5
SYM-TRINITROBENZENE	UG/L		< 48	< 48	< 48
ACENAPHTHENE	UG/L		< 2	< 2	< 2
ACENAPHTHYLENE	UG/L		< 2	< 2	< 2
ANTHRACENE	UG/L		< 2	< 2	< 2
BENZIDINE	UG/L		< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L		< 2	< 2	< 2
BENZO(A)PYRENE	UG/L		< 0.3	< 0.3	< 0.3
BENZO(B)FLUORANTHENE	UG/L		< 2	< 2	< 2
BENZO(G.H.I.)PERYLENE	UG/L		< 1	< 1	< 1
BENZO(K)FLUORANTHENE	UG/L		< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L		< 2	< 2	< 2
BIS(2-CHLOROETHYL)ETHER	UG/L		< 1	< 1	< 1
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 7	< 7	< 7
DIETHYLHEXYL PHTHALATE	UG/L		< 1	< 1	< 1
4-BROMOPHENYL PHENYLETHER	UG/L		< 2	< 2	< 2
BUTYLBENZYL PHTHALATE	UG/L		< 2	< 2	< 2
2-CHLORONAPHTHALENE	UG/L		< 3	< 3	< 3
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2	< 2	< 2
CHRYSENE	UG/L		< 1	< 1	< 1
DIBENZO(A,H)ANTHRACENE	UG/L		< 1	< 1	< 1
3,3'-DICHLOROBENZIDINE	UG/L		< 14	< 14	< 14
DIETHYL PHTHALATE	UG/L		< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L		< 2	< 2	< 2

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ13554 03/20/96		WELL M43A SJ17750 06/05/96		WELL M43A SJ21538 09/10/96		WELL M43A SJ24859 12/04/96	
ACID-BASE NEUTRAL EXTRACTABLE									
DI-N-BUTYL PHTHALATE	UG/L		<	1	<	1	<	1	
2,4-DINITROTOLUENE	UG/L		<	2	<	2	<	2	
2,6-DINITROTOLUENE	UG/L		<	2	<	2	<	2	
DI-N-OCTYL PHTHALATE	UG/L		<	2	<	2	<	2	
FLUORANTHENE	UG/L		<	2	<	2	<	2	
FLUORENE	UG/L		<	2	<	2	<	2	
HEXACHLOROBENZENE	UG/L		<	1	<	1	<	1	
HEXACHLOROBUTADIENE	UG/L		<	4	<	4	<	4	
HEXACHLOROCYCLOPENTADIENE	UG/L		<	30	<	30	<	30	
HEXACHLOROETHANE	UG/L		<	4	<	4	<	4	
INDENO(1,2,3-C,D)PYRENE	UG/L		<	2	<	2	<	2	
ISOPHORONE	UG/L		<	1	<	1	<	1	
NAPHTHALENE	UG/L		<	3	<	3	<	3	
NITROBENZENE	UG/L		<	2	<	2	<	2	
N-NITROSODIMETHYLAMINE	UG/L		<	1	<	1	<	1	
N-NITROSODI-N-PROPYLAMINE	UG/L		<	3	<	3	<	3	
PHENANTHRENE	UG/L		<	2	<	2	<	2	
PYRENE	UG/L		<	1	<	1	<	1	
2-CHLOROPHENOL	UG/L		<	2	<	2	<	2	
1,2,4-TRICHLOROBENZENE	UG/L		<	4	<	4	<	4	
2,4-DICHLOROPHENOL	UG/L		<	2	<	2	<	2	
2,4-DIMETHYLPHENOL	UG/L		<	2	<	2	<	2	
2,4-DINITROPHENOL	UG/L		<	19	<	19	<	19	
2-METHYL-4,6DINITROPHENOL	UG/L		<	2	<	2	<	2	
2-NITROPHENOL	UG/L		<	3	<	3	<	3	
4-NITROPHENOL	UG/L		<	18	<	18	<	18	
4-CHLORO-3-METHYLPHENOL	UG/L		<	2	<	2	<	2	
PENTACHLOROPHENOL	UG/L		<	0.1	<	0.1	<	0.1	
PHENOL	UG/L		<	2	<	2	<	2	
2,4,6-TRICHLOROPHENOL	UG/L		<	2	<	2	<	2	
N-NITROSODIPHENYLAMINE	UG/L		<	2	<	2	<	2	
O-CRESOL	UG/L		<	4	<	4	<	4	
M+P CRESOL	UG/L		<	3	<	3	<	3	

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M43A SJ13552 03/20/96	WEFI M43A SJ17748 06/05/96	WEFI M43A SJ21537 09/10/96	WEFI M43A SJ24858 12/04/96
CATIONS					
IRON	MG/L FE	< 0.02	< 0.02	< 0.02 A	< 0.02 A
MANGANESE	MG/L MN	0.01	0.031	0.06 A	0.26 A
METALS					
ARSENIC	MG/L AS	.0085	.0048	.0073	.0017
BARIUM	MG/L BA	0.02	0.02	0.02 A	0.08 A
CADMIUM	MG/L CD	<0.003	<0.003	<0.003 A	<0.003 A
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01 A	< 0.01 A
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01 A	< 0.01 A
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01 A	< 0.01 A
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02 A	< 0.02 A
MERCURY	MG/L HG	<.0001	<.0001 A	<.0001	<.0001 A
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02 A	< 0.02 A
SELENIUM	MG/L SE	.0026	.0013	<.0010	.0010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01 A	< 0.01 A
ZINC	MG/L ZN	< 0.01	0.02	0.04 A	< 0.01 A
ANTIMONY	MG/L SB	.0015	.0009	.0010	.0007
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.001
TIN	MG/L SN	< 0.06	< 0.06	< 0.06 A	< 0.06 A
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05 A	< 0.05 B

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE

TABLE A.5

WATER QUALITY DATA

OFFSITE MONITORING WELLS

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ13247 03/13/96	WELL M16A SJ17738 06/05/96	WELL M16A SJ17739 06/05/96	WELL M16A SJ21479 09/09/96	WELL M16A SJ24847 12/04/96	WELL M16A SJ24848 12/04/96
FIELD PARAMETERS							
DEPTH TO WATER	FT	37.33	42.08		45.9	43.2	
DEPTH TO BOTTOM	FT	85.21	85.08		85.11	85.08	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1		< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	19	17		19	17	
FIELD WATER TEMPERATURE	DEG C	20.83	21.87		22.44	20.31	
FIELD PH	PH	6.44	6.5		6.52	6.41	
FIELD CONDUCTIVITY	UMHOS/CM	1559	1674		1573	1616	
FIELD DISSOLVED O2	MG/L	2.7	2.3		2.62	2.7	
DISSOLVED CO2	MG/L	298	280				
GENERAL							
PH	PH	7.04	7.48 E	7.45	7.03 E	6.94 E	6.94
CONDUCTIVITY	UMHOS/CM	1520 A	1615	1608			
TOTAL DISSOLVED SOLIDS	MG/L	1127	1102	1105	1084	1094	1089
TOTAL HARDNESS	MG/L CACO3	734 C	808	802			
TOTAL CYANIDE	MG/L CN	<0.002	<0.002	<0.002			
BORON	MG/L B	0.63	0.59	0.68			
ANIONS							
NITRATE NITROGEN	MG/L N	27.5 B	30.6 B	30.4 B	43.7 B	46.9 B	46.6 B
SULFATE	MG/L SO4	199 B	218 B	217 B	188 B	175 B	174 B
CHLORIDE	MG/L CL	69.0 B	57.4 B	57.5 B	45.4 B	41.0 B	41.1 B
TOTAL ALKALINITY	MG/L CACO3	468	504 A	513			
BICARBONATE ALKALINITY	MG/L CACO3	468	504	513			
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1 E	< 0.1			
FLUORIDE	MG/L F	0.44	0.25	0.25			
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	517	562	559			
MAGNESIUM-HARDNESS	MG/L CACO3	217	246	243			
SODIUM	MG/L NA	69.2	70.2	69.9			
POTASSIUM	MG/L K	4.9	4.7	4.4			
IRON	MG/L FE	2.46	3.00 B	0.39 B			
MANGANESE	MG/L MN	0.06	0.085 B	0.012 B			
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1			

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ13247 03/13/96	WELL M16A SJ17738 06/05/96	WELL M16A SJ17739 06/05/96	WELL M16A SJ21479 09/09/96	WELL M16A SJ24847 12/04/96	WELL M16A SJ24848 12/04/96
ORGANIC MATTER							
TOTAL BOD	MG/L O	5	< 0.7 A	< 0.7			
SOLUBLE BOD	MG/L O	2 A	< 0.7	1			
TOTAL COD	MG/L O	< 2	4 A	4			
SOLUBLE COD	MG/L O	< 2	5	5			
TOTAL ORGANIC CARBON	MG/L C	0.97 D	1.2	0.75			
OIL & GREASE	MG/L EXTRAC	< 0.9 D	< 1	< 1			
TOTAL ORGANIC HALOGEN(TOX	UG/L	8.6 D	12 D	12			
METALS							
ARSENIC	MG/L AS	.0049	.0052	.0032			
BARIUM	MG/L BA	0.09	0.10 B	0.08 B			
CADMIUM	MG/L CD	<0.003	<0.003	<0.003			
TOTAL CHROMIUM	MG/L CR	0.02	0.02 B	< 0.01 B			
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01			
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01			
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02			
MERCURY	MG/L HG	.0002 D	.0001	<.0001			
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02			
SELENIUM	MG/L SE	.0188	.0190	.0186			
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01			
ZINC	MG/L ZN	0.03	0.02 B	0.01 B			
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005			
BERYLLIUM	MG/L BE	<.0005 D	<.0005	<.0005			
THALLIUM	MG/L TL	<0.002 D	<0.002	<0.002			
TIN	MG/L SN	< 0.06	< 0.06	< 0.06			
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05			
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	2	1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ13247 03/13/96	WELL M16A SJ17738 06/05/96	WELL M16A SJ17739 06/05/96	WELL M16A SJ21479 09/09/96	WELL M16A SJ24847 12/04/96	WELL M16A SJ24848 12/04/96
VOLATILE ORGANIC COMPOUNDS							
1,1-DICHLOROETHENE	UG/L	2	2	2	3	3	3
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	2	4	5	7	8	7
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE E-AVERAGE OF DUPS

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M16A SJ13246 03/13/96		WEFI M16A SJ17735 06/05/96		WEFI M16A SJ17736 06/05/96	
CATIONS							
IRON	MG/L FE	< 0.02	A	< 0.02		0.03	A
MANGANESE	MG/L MN	<0.003	A	<0.003		<0.003	A
METALS							
ARSENIC	MG/L AS	.0024		.0031		.0029	
BARIUM	MG/L BA	0.07	A	0.07		0.07	A
CADMIUM	MG/L CD	<0.003	A	<0.003	A	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	A	< 0.01		< 0.01	A
COBALT	MG/L CO	< 0.01	A	< 0.01		< 0.01	A
COPPER	MG/L CU	< 0.01	A	< 0.01		< 0.01	A
LEAD	MG/L PB	< 0.02	A	< 0.02	A	< 0.02	
MERCURY	MG/L HG	<.0001		<.0001		<.0001	
NICKEL	MG/L NI	< 0.02	A	< 0.02		< 0.02	A
SELENIUM	MG/L SE	.0199		.0185		.0184	
SILVER	MG/L AG	< 0.01	A	< 0.01	A	< 0.01	
ZINC	MG/L ZN	0.01	A	0.04		0.02	A
ANTIMONY	MG/L SB	<.0005		<.0005		<.0005	
BERYLLIUM	MG/L BE	<.0005		<.0005		<.0005	
THALLIUM	MG/L TL	<0.002		<0.002		<0.002	
TIN	MG/L SN	< 0.06	A	< 0.06		< 0.06	A
VANADIUM	MG/L V	< 0.05	A	< 0.05		< 0.05	A

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA

LIQUID COLLECTION AND REMOVAL SYSTEMS

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ15102 04/25/96		CNYN 9 LCRS SJ15104 04/25/96		CNYN 9 LCRS(F) SJ23484 10/28/96		CNYN 9 LCRS SJ23486 10/28/96	
GENERAL									
PH	PH			6.90				7.36	
CONDUCTIVITY	UMHOS/CM			7380				6980	
TOTAL DISSOLVED SOLIDS	MG/L			6520	A			5880	A
TOTAL HARDNESS	MG/L CACO3			3240				3000	
TOTAL CYANIDE	MG/L CN			0.002				<0.002	
BORON	MG/L B			3.08				3.01	
ANIONS									
NITRATE NITROGEN	MG/L N			< 0.05	B			< 0.05	B
SULFATE	MG/L SO4			2870	B			2340	B
CHLORIDE	MG/L CL			776	B			904	B
TOTAL ALKALINITY	MG/L CACO3			992				975	
BICARBONATE ALKALINITY	MG/L CACO3			992				975	
TOTAL SULFIDE	MG/L S			< 0.1	C			< 0.1	
FLUORIDE	MG/L F			0.68				0.50	
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3			1340				976	
MAGNESIUM-HARDNESS	MG/L CACO3			1900				1500	
SODIUM	MG/L NA			749				756	
POTASSIUM	MG/L K			19.2				19.5	
IRON	MG/L FE	1.16		16.6		0.22		2.60	
MANGANESE	MG/L MN	6.76		6.91		6.73		6.74	
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N			5.7				5.3	
TOTAL BOD	MG/L O			3				2	
SOLUBLE BOD	MG/L O			2				< 1	
TOTAL COD	MG/L O			126				96	
SOLUBLE COD	MG/L O			121				91	A
TOTAL ORGANIC CARBON	MG/L C			44				27	
OIL & GREASE	MG/L EXTRAC			< 1				1.0	
TOTAL ORGANIC HALOGEN(TOX	UG/L			340	D			190	D
METALS									
ARSENIC	MG/L AS	.0112		.0256		.0077		.0174	
BARIUM	MG/L BA	0.10		0.13		0.08		0.08	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ15102 04/25/96	CNYN 9 LCRS SJ15104 04/25/96	CNYN 9 LCRS(F) SJ23484 10/28/96	CNYN 9 LCRS SJ23486 10/28/96
METALS					
CADMIUM	MG/L CD	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	0.33	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	0.06	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001 E	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	0.02
SELENIUM	MG/L SE	.0012	.0020	<.0010	<.0010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01	0.11	< 0.01	< 0.01
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0005	<.0005	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002	<0.002	<0.002
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L		< 0.05		< 0.05
DINOSEB	UG/L		< 0.1		< 0.1
THIONAZIN	UG/L		< 1		< 1
DIMETHOATE	UG/L		< 1		< 1
DISULFOTON	UG/L		< 1		< 1
METHYL PARATHION	UG/L		< 1		< 1
ETHYL PARATHION	UG/L		< 1		< 1
PHORATE	UG/L		< 1		< 1
PP'-DDE	UG/L		< 0.01		< 0.01
PP'-DDD	UG/L		< 0.01		< 0.01
PP'-DDT	UG/L		< 0.01		< 0.01
ALPHA-BHC	UG/L		< 0.01		< 0.01
LINDANE (GAMMA-BHC)	UG/L		< 0.01		< 0.01
HEPTACHLOR	UG/L		< 0.01		< 0.01
HEPTACHLOR EPOXIDE	UG/L		< 0.01		< 0.01
ALDRIN	UG/L		< 0.01		< 0.01
DIELDRIN	UG/L		< 0.01		< 0.01
ENDRIN	UG/L		< 0.01		< 0.01
TOXAPHENE	UG/L		< 0.5		< 0.5
METHOXYCLOR	UG/L		< 0.01		< 0.01
2,4-D(ACID)	UG/L		< 0.5		< 0.5
2,4,5-TP(SILVEX)	UG/L		< 0.05		< 0.05
AROCLOR 1242	UG/L		< 0.1		< 0.1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ15102 04/25/96	CNYN 9 LCRS SJ15104 04/25/96	CNYN 9 LCRS(F) SJ23484 10/28/96	CNYN 9 LCRS SJ23486 10/28/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
AROCLOR 1254	UG/L		< 0.05		< 0.05
BETA-BHC	UG/L		< 0.01		< 0.01
DELTA-BHC	UG/L		< 0.01		< 0.01
ENDOSULFAN I	UG/L		< 0.01		< 0.01
ENDOSULFAN II	UG/L		< 0.01		< 0.01
ENDOSULFAN SULFATE	UG/L		< 0.1		< 0.1
ENDRIN ALDEHYDE	UG/L		< 0.01		< 0.01
AROCLOR 1016	UG/L		< 0.1		< 0.1
AROCLOR 1221	UG/L		< 0.1		< 0.1
AROCLOR 1232	UG/L		< 0.1		< 0.1
AROCLOR 1248	UG/L		< 0.1		< 0.1
AROCLOR 1260	UG/L		< 0.1		< 0.1
TECHNICAL CHLORDANE	UG/L		< 0.05		< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L		< 1		< 1
BROMOCHLOROMETHANE	UG/L		< 1		< 1
CHLOROPRENE	UG/L		< 1		< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L		< 0.01		< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L		< 1		< 1
1,3-DICHLOROPROPANE	UG/L		< 0.3		< 0.3
2,2-DICHLOROPROPANE	UG/L		< 1		< 1
1,1-DICHLOROPROPENE	UG/L		< 1		< 1
ISOBUTYL ALCOHOL	UG/L		< 10		< 10
METHACRYLONITRILE	UG/L		< 10		< 10
METHYL IODIDE	UG/L		< 1		< 1
METHYLENE BROMIDE	UG/L		< 1		< 1
PROPIONITRILE	UG/L		< 10		< 10
1,1,1,2-TETRACHLOROETHANE	UG/L		< 1		< 1
1,2,3-TRICHLOROPROPANE	UG/L		< 1		< 1
METHYL METHACRYLATE	UG/L		< 10		< 10
ETHYL METHACRYLATE	UG/L		< 5		< 5
METHYLENE CHLORIDE	UG/L		< 1		< 1
CHLOROFORM	UG/L		< 1		< 1
1,1,1-TRICHLOROETHANE	UG/L		< 1		< 1
CARBON TETRACHLORIDE	UG/L		< 0.3		< 0.3
1,1-DICHLOROETHENE	UG/L		< 1		< 1
TRICHLOROETHYLENE	UG/L		< 1		< 1
TETRACHLOROETHYLENE	UG/L		< 1		< 1
BROMODICHLOROMETHANE	UG/L		< 1		< 1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ15102 04/25/96	CNYN 9 LCRS SJ15104 04/25/96	CNYN 9 LCRS(F) SJ23484 10/28/96	CNYN 9 LCRS SJ23486 10/28/96
VOLATILE ORGANIC COMPOUNDS					
DIBROMOCHLOROMETHANE	UG/L		< 1		< 1
BROMOFORM	UG/L		< 1		< 1
CHLOROBENZENE	UG/L		< 1		< 1
VINYL CHLORIDE	UG/L		< 0.3		< 0.3
O-DICHLOROBENZENE	UG/L		4		1
M-DICHLOROBENZENE	UG/L		< 1		< 1
P-DICHLOROBENZENE	UG/L		9		4
1,1-DICHLOROETHANE	UG/L		2		1
1,1,2-TRICHLOROETHANE	UG/L		< 1		< 1
1,2-DICHLOROETHANE	UG/L		0.9		< 0.3
BENZENE	UG/L		< 0.5		< 0.5
TOLUENE	UG/L		< 1		< 1
ETHYL BENZENE	UG/L		< 1		< 1
VINYL ACETATE	UG/L		< 10		< 10
O-XYLENE	UG/L		2		< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1		< 1
BROMOMETHANE	UG/L		< 1		< 1
CHLOROETHANE	UG/L		< 1		< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1		< 1
CHLOROMETHANE	UG/L		< 1		< 1
1,2-DICHLOROPROPANE	UG/L		< 1		< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1		< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1		< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5		< 0.5
ACROLEIN	UG/L		< 10		< 10
ACRYLONITRILE	UG/L		< 10		< 10
ACETONITRILE	UG/L		< 20		< 20
FREON 12 (CCL2F2)	UG/L		< 1		< 1
FREON 11 (CCL3F)	UG/L		< 1		< 1
1,2-DIBROMOETHANE	UG/L		< 0.01		< 0.01
ACETONE	UG/L		< 10		< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		23		6
2-BUTANONE	UG/L		< 10		< 10
4-METHYL-2-PENTANONE	UG/L		< 10		< 10
STYRENE	UG/L		< 1		< 1
2,4,5-TRICHLOROPHENOL	UG/L		< 2		< 2
M+P-XYLENE	UG/L		4		< 1
CARBON DISULFIDE	UG/L CS2		< 1		< 1
2-HEXANONE	UG/L C6H12O		< 5		< 5

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ15102 04/25/96		CNYN 9 LCRS SJ15104 04/25/96		CNYN 9 LCRS(F) SJ23484 10/28/96		CNYN 9 LCRS SJ23486 10/28/96	
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L			<	4			<	4
2-ACETYLAMINOFLUORENE	UG/L			<	3			<	3
4-AMINOBIPHENYL	UG/L			<	5			<	5
BENZYL ALCOHOL	UG/L			<	5			<	5
P-CHLOROANILINE	UG/L			<	6			<	6
CHLOROBENZILATE	UG/L			<	3			<	3
DIALLATE	UG/L			<	4			<	4
DIBENZOFURAN	UG/L			<	4			<	4
2,6-DICHLOROPHENOL	UG/L			<	3			<	3
P(DIMETHYLAMINO)AZOBENZEN	UG/L			<	4			<	4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L			<	15			<	15
3,3'-DIMETHYLBENZIDINE	UG/L			<	4			<	4
M-DINITROBENZENE	UG/L			<	4			<	4
DIPHENYLAMINE	UG/L			<	10			<	10
ETHYL METHANESULFONATE	UG/L			<	4			<	4
FAMPHUR	UG/L			<	50			<	50
HEXACHLOROPROPENE	UG/L			<	20			<	20
ISODRIN	UG/L			<	5			<	5
ISOSAFROLE	UG/L			<	5			<	5
KEPONE	UG/L			<	50			<	50
METHAPYRILENE	UG/L			<	5			<	5
3-METHYLCHOLANTHRENE	UG/L			<	13			<	13
METHYL METHANESULFONATE	UG/L			<	11			<	11
2-METHYLNAPHTHALENE	UG/L			<	5			<	5
1,4-NAPHTHOQUINONE	UG/L			<	8			<	8
1-NAPHTHYLAMINE	UG/L			<	4			<	4
2-NAPHTHYLAMINE	UG/L			<	4			<	4
O-NITROANILINE	UG/L			<	4			<	4
M-NITROANILINE	UG/L			<	4			<	4
P-NITROANILINE	UG/L			<	4			<	4
N-NITROSODI-N-BUTYLAMINE	UG/L			<	5			<	5
N-NITROSODIETHYLAMINE	UG/L			<	5			<	5
N-NITROSOMETHYLETHYLAMINE	UG/L			<	6			<	6
N-NITROSOPIPERIDINE	UG/L			<	5			<	5
N-NITROSOPYRROLIDINE	UG/L			<	5			<	5
5-NITRO-O-TOLUIDINE	UG/L			<	5			<	5
PENTACHLOROBENZENE	UG/L			<	4			<	4
PENTACHLORONITROBENZENE	UG/L			<	4			<	4
PHENACETIN	UG/L			<	4			<	4
P-PHENYLENEDIAMINE	UG/L			<	20			<	20
PRONAMIDE	UG/L			<	5			<	5

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-10%.RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ15102 04/25/96	CNYN 9 LCRS SJ15104 04/25/96	CNYN 9 LCRS(F) SJ23484 10/28/96	CNYN 9 LCRS SJ23486 10/28/96
ACID-BASE NEUTRAL EXTRACTABLE					
SAFROLE	UG/L		< 5		< 5
1,2,4,5-TETRACHLOROBENZEN	UG/L		< 5		< 5
2,3,4,6-TETRACHLOROPHENOL	UG/L		< 5		< 5
O-TOLUIDINE	UG/L		< 5		< 5
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		< 5		< 5
SYM-TRINITROBENZENE	UG/L		< 48		< 48
ACENAPHTHENE	UG/L		< 2		< 2
ACENAPHTHYLENE	UG/L		< 2		< 2
ANTHRACENE	UG/L		< 2		< 2
BENZIDINE	UG/L		< 62		< 62
BENZO(A)ANTHRACENE	UG/L		< 2		< 2
BENZO(A)PYRENE	UG/L		< 0.3		< 0.3
BENZO(B)FLUORANTHENE	UG/L		< 2		< 2
BENZO(G.H.I.)PERYLENE	UG/L		< 1		< 1
BENZO(K)FLUORANTHENE	UG/L		< 2		< 2
BIS(2-CL-ETHOXY)METHANE	UG/L		< 2		< 2
BIS(2-CHLOROETHYL)ETHER	UG/L		< 1		< 1
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 7		< 7
DIETHYLHEXYL PHTHALATE	UG/L		< 1		< 1
4-BROMOPHENYL PHENYLETHER	UG/L		< 2		< 2
BUTYLBENZYL PHTHALATE	UG/L		< 2		< 2
2-CHLORONAPHTHALENE	UG/L		< 3		< 3
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2		< 2
CHRYSENE	UG/L		< 1		< 1
DIBENZO(A,H)ANTHRACENE	UG/L		< 1		< 1
3,3'-DICHLOROBENZIDINE	UG/L		< 14		< 14
DIETHYL PHTHALATE	UG/L		< 2		< 2
DIMETHYL PHTHALATE	UG/L		< 2		< 2
DI-N-BUTYL PHTHALATE	UG/L		< 1		< 1
2,4-DINITROTOLUENE	UG/L		< 2		< 2
2,6-DINITROTOLUENE	UG/L		< 2		< 2
DI-N-OCTYL PHTHALATE	UG/L		< 2		< 2
FLUORANTHENE	UG/L		< 2		< 2
FLUORENE	UG/L		< 2		< 2
HEXACHLOROBENZENE	UG/L		< 1		< 1
HEXACHLOROBUTADIENE	UG/L		< 4		< 4
HEXACHLOROCYCLOPENTADIENE	UG/L		< 30		< 30
HEXACHLOROETHANE	UG/L		< 4		< 4
INDENO(1,2,3-C,D)PYRENE	UG/L		< 2		< 2
ISOPHORONE	UG/L		< 1		< 1
NAPHTHALENE	UG/L		< 3		< 3

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS(F) SJ15102 04/25/96		CNYN 9 LCRS SJ15104 04/25/96		CNYN 9 LCRS(F) SJ23484 10/28/96		CNYN 9 LCRS SJ23486 10/28/96	
ACID-BASE NEUTRAL EXTRACTABLE									
NITROBENZENE	UG/L			<	2			<	2
N-NITROSODIMETHYLAMINE	UG/L			<	1			<	1
N-NITROSODI-N-PROPYLAMINE	UG/L			<	3			<	3
PHENANTHRENE	UG/L			<	2			<	2
PYRENE	UG/L			<	1			<	1
2-CHLOROPHENOL	UG/L			<	2			<	2
1,2,4-TRICHLOROBENZENE	UG/L			<	4			<	4
2,4-DICHLOROPHENOL	UG/L			<	2			<	2
2,4-DIMETHYLPHENOL	UG/L				3			<	2
2,4-DINITROPHENOL	UG/L			<	19			<	19
2-METHYL-4,6DINITROPHENOL	UG/L			<	2			<	2
2-NITROPHENOL	UG/L			<	3			<	3
4-NITROPHENOL	UG/L			<	18			<	18
4-CHLORO-3-METHYLPHENOL	UG/L			<	2			<	2
PENTACHLOROPHENOL	UG/L			<	0.1			<	0.1
PHENOL	UG/L			<	2			<	2
2,4,6-TRICHLOROPHENOL	UG/L			<	2			<	2
N-NITROSODIPHENYLAMINE	UG/L			<	2			<	2
O-CRESOL	UG/L			<	4			<	4
M+P CRESOL	UG/L			<	3			<	3

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AVERAGE OF DUPS D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ15103 04/25/96	EASTERN CANYONS LCS2 SJ15105 04/25/96	EASTERN CANYONS LCS2(2) SJ18955 07/05/96	EASTERN CANYONS LCS2 SJ18956 07/05/96	EASTERN CANYONS LCS2(F) SJ23483 10/28/96	EASTERN CANYONS LCS2 SJ23485 10/28/96	EASTERN CANYONS LCS2(F) SJ24934 12/05/96	EASTERN CANYONS LCS2 SJ24935 12/05/96
GENERAL									
PH	PH		7.66		6.85 D		7.90		7.49
CONDUCTIVITY	UMHOS/CM		1446		2020 E		1422		1266
TOTAL DISSOLVED SOLIDS	MG/L		1108		1313		1008		832
TOTAL HARDNESS	MG/L CACO3		674		1106 A		614		591
TOTAL CYANIDE	MG/L CN		<0.002		0.003		<0.002		0.004
BORON	MG/L B		0.20		0.47		0.5		0.37
ANIONS									
NITRATE NITROGEN	MG/L N		0.95 A		< 0.05 A		30.6 A		4.41 A
SULFATE	MG/L SO4		425 A		60.9 A		378 A		187 A
CHLORIDE	MG/L CL		20.7 A		51.7 A		37.0 A		24.3 A
TOTAL ALKALINITY	MG/L CACO3		390		1100		242		462
BICARBONATE ALKALINITY	MG/L CACO3		390		1100		242		462
TOTAL SULFIDE	MG/L S		< 0.1		< 0.1 D		< 0.1		< 0.1
FLUORIDE	MG/L F		0.40		0.23 E		0.58		0.61
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3		447		747		380		350 C
MAGNESIUM-HARDNESS	MG/L CACO3		227		359		222		241 C
SODIUM	MG/L NA		84.5		92.3		81.2		73.2 C
POTASSIUM	MG/L K		8.1		10.6		12.6		9.2 C
IRON	MG/L FE	< 0.02	0.04	5.9 C	3.8	< 0.02 C	0.13	< 0.02	0.06 C
MANGANESE	MG/L MN	0.02	0.03	10.9 C	11.7	0.006 C	0.02	0.005	<0.003 C
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N		0.1		2.1		0.1		< 0.1
TOTAL BOD	MG/L O		< 0.7		40		< 0.7 E		< 0.7
SOLUBLE BOD	MG/L O		< 0.7		41		< 0.7		< 0.7
TOTAL COD	MG/L O		27		77		8		7
SOLUBLE COD	MG/L O		27		87		8		8
TOTAL ORGANIC CARBON	MG/L C		3.7		34		1.3		2.4
OIL & GREASE	MG/L EXTRAC		< 1		< 1		< 1		< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L		42 B		230 B		63		74
METALS									
ARSENIC	MG/L AS	<.0010	<.0010	.0085	.0054	<.0010	<.0010	<.0010	<.0010
BARIUM	MG/L BA	0.20	0.20	0.38 C	0.41	0.11 C	0.11	0.14	0.14 C

FOOTNOTES : A-AVERAGE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ15103 04/25/96	EASTERN CANYONS LCS2 SJ15105 04/25/96	EASTERN CANYONS LCS2(2) SJ18955 07/05/96	EASTERN CANYONS LCS2 SJ18956 07/05/96	EASTERN CANYONS LCS2(F) SJ23483 10/28/96	EASTERN CANYONS LCS2 SJ23485 10/28/96	EASTERN CANYONS LCS2(F) SJ24934 12/05/96	EASTERN CANYONS LCS2 SJ24935 12/05/96
METALS									
CADMIUM	MG/L CD	<0.003	<0.003	<0.003 C	<0.003	<0.003 C	<0.003	<0.003	<0.003 C
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01 C	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C
COBALT	MG/L CO	< 0.01	< 0.01	0.02 C	0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01 C	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02 C	< 0.02	< 0.02 C	< 0.02	< 0.02	< 0.02 C
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02 C	< 0.02	< 0.02 C	< 0.02	< 0.02	< 0.02 C
SELENIUM	MG/L SE	.0031	.0030	<.0010	<.0010	<.0010	<.0010	.0011	.0011
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01 C	< 0.01	< 0.01 C	< 0.01	< 0.01	< 0.01 C
ZINC	MG/L ZN	0.01	0.01	0.02 C	< 0.01	0.01 C	< 0.01	< 0.01	< 0.01 C
ANTIMONY	MG/L SB	.0007	.0008	<.0005	<.0005	<.0005	.0007	.0010	.0010
BERYLLIUM	MG/L BE	<.0005	<.0005 C	<.0005	<.0005 C	<.0005	<.0005 C	<.0005	<.0005
THALLIUM	MG/L TL	<0.002	<0.002 C	<0.002	<0.002 C	<0.002	<0.002 C	<0.001	<0.001
TIN	MG/L SN	< 0.06	< 0.06	< 0.06 C	< 0.06	< 0.06 C	< 0.06	< 0.06	< 0.06 C
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05 C	< 0.05	< 0.05 C	< 0.05	< 0.05	< 0.05 C
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L		< 0.5		< 0.5		< 0.05		< 0.05
DINOSEB	UG/L		< 0.1		< 1		< 0.1		< 0.1
THIONAZIN	UG/L		< 1		< 1		< 1		< 1
DIMETHOATE	UG/L		< 1		< 1		< 1		< 1
DISULFOTON	UG/L		< 1		< 1		< 1		< 1
METHYL PARATHION	UG/L		< 1		< 1		< 1		< 1
ETHYL PARATHION	UG/L		< 1		< 1		< 1		< 1
PHORATE	UG/L		< 1		< 1		< 1		< 1
PP'-DDE	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
PP'-DDD	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
PP'-DDT	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
ALPHA-BHC	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
LINDANE (GAMMA-BHC)	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
HEPTACHLOR	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
HEPTACHLOR EPOXIDE	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
ALDRIN	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
DIELDRIN	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
ENDRIN	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
TOXAPHENE	UG/L		< 0.5		< 0.5		< 0.5		< 0.5
METHOXYCLOR	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
2,4-D(ACID)	UG/L		< 5		< 5		< 0.5		< 0.5
2,4,5-TP(SILVEX)	UG/L		< 0.5		< 0.5		< 0.05		< 0.05
AROCLOR 1242	UG/L		< 0.1		< 0.1		< 0.1		< 0.1

FOOTNOTES : A-AVERAGE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ15103 04/25/96	EASTERN CANYONS LCS2 SJ15105 04/25/96	EASTERN CANYONS LCS2(2) SJ18955 07/05/96	EASTERN CANYONS LCS2 SJ18956 07/05/96	EASTERN CANYONS LCS2(F) SJ23483 10/28/96	EASTERN CANYONS LCS2 SJ23485 10/28/96	EASTERN CANYONS LCS2(F) SJ24934 12/05/96	EASTERN CANYONS LCS2 SJ24935 12/05/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
AROCLOR 1254	UG/L		< 0.05		< 0.05		< 0.05		< 0.05
BETA-BHC	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
DELTA-BHC	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
ENDOSULFAN I	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
ENDOSULFAN II	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
ENDOSULFAN SULFATE	UG/L		< 0.1		< 0.1		< 0.1		< 0.1
ENDRIN ALDEHYDE	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
AROCLOR 1016	UG/L		< 0.1		< 0.1		< 0.1		< 0.1
AROCLOR 1221	UG/L		< 0.1		< 0.1		< 0.1		< 0.1
AROCLOR 1232	UG/L		< 0.1		< 0.1		< 0.1		< 0.1
AROCLOR 1248	UG/L		< 0.1		< 0.1		< 0.1		< 0.1
AROCLOR 1260	UG/L		< 0.1		< 0.1		< 0.1		< 0.1
TECHNICAL CHLORDANE	UG/L		< 0.05		< 0.05		< 0.05		< 0.05
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L		< 1		< 10		< 1		< 1
BROMOCHLOROMETHANE	UG/L		< 1		< 1		< 1		< 1
CHLOROPRENE	UG/L		< 1		< 1		< 1		< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L		< 1		< 1		< 1		< 1
1,3-DICHLOROPROPANE	UG/L		< 0.3		< 0.3		< 0.3		< 0.3
2,2-DICHLOROPROPANE	UG/L		< 1		< 1		< 1		< 1
1,1-DICHLOROPROPENE	UG/L		< 1		< 1		< 1		< 1
ISOBUTYL ALCOHOL	UG/L		< 10		< 10		< 10		< 10
METHACRYLONITRILE	UG/L		< 10		< 10		< 10		< 10
METHYL IODIDE	UG/L		< 1		< 1		< 1		< 1
METHYLENE BROMIDE	UG/L		< 1		< 1		< 1		< 1
PROPIONITRILE	UG/L		< 10		< 10		< 10		< 10
1,1,1,2-TETRACHLOROETHANE	UG/L		< 1		< 1		< 1		< 1
1,2,3-TRICHLOROPROPANE	UG/L		< 1		< 1		< 1		< 1
METHYL METHACRYLATE	UG/L		< 10		< 10		< 10		< 10
ETHYL METHACRYLATE	UG/L		< 5		< 10		< 5		< 5
METHYLENE CHLORIDE	UG/L		< 1		16		< 1		20
CHLOROFORM	UG/L		< 1		< 1		< 1		< 1
1,1,1-TRICHLOROETHANE	UG/L		< 1		5		< 1		2
CARBON TETRACHLORIDE	UG/L		< 0.3		< 0.3		< 0.3		< 0.3
1,1-DICHLOROETHENE	UG/L		< 1		< 1		< 1		< 1
TRICHLOROETHYLENE	UG/L		< 1		< 1		< 1		< 1
TETRACHLOROETHYLENE	UG/L		< 1		< 1		< 1		< 1
BROMODICHLOROMETHANE	UG/L		< 1		< 1		< 1		< 1

FOOTNOTES : A-AVERAGE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ15103 04/25/96	EASTERN CANYONS LCS2 SJ15105 04/25/96	EASTERN CANYONS LCS2(2) SJ18955 07/05/96	EASTERN CANYONS LCS2 SJ18956 07/05/96	EASTERN CANYONS LCS2(F) SJ23483 10/28/96	EASTERN CANYONS LCS2 SJ23485 10/28/96	EASTERN CANYONS LCS2(F) SJ24934 12/05/96	EASTERN CANYONS LCS2 SJ24935 12/05/96
VOLATILE ORGANIC COMPOUNDS									
DIBROMOCHLOROMETHANE	UG/L		< 1		< 1		< 1		< 1
BROMOFORM	UG/L		< 1		< 1		< 1		< 1
CHLOROBENZENE	UG/L		< 1		< 1		< 1		< 1
VINYL CHLORIDE	UG/L		< 0.3		< 0.3		< 0.3		< 0.3
O-DICHLOROBENZENE	UG/L		< 1		< 1		< 1		< 1
M-DICHLOROBENZENE	UG/L		< 1		< 1		< 1		< 1
P-DICHLOROBENZENE	UG/L		< 1		< 1		< 1		< 1
1,1-DICHLOROETHANE	UG/L		< 1		15		< 1		2
1,1,2-TRICHLOROETHANE	UG/L		< 1		< 1		< 1		< 1
1,2-DICHLOROETHANE	UG/L		< 0.3		< 0.3		< 0.3		< 0.3
BENZENE	UG/L		< 0.5		< 0.5		< 0.5		< 0.5
TOLUENE	UG/L		< 1		1		< 1		< 1
ETHYL BENZENE	UG/L		< 1		< 1		< 1		< 1
VINYL ACETATE	UG/L		< 10		< 10		< 10		< 10
O-XYLENE	UG/L		< 1		< 1		< 1		< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L		< 1		< 1		< 1		< 1
BROMOMETHANE	UG/L		< 1		< 1		< 1		< 1
CHLOROETHANE	UG/L		< 1		< 1		< 1		< 1
2-CHLOROETHYLVINYLETHER	UG/L		< 1		< 1		< 1		< 1
CHLOROMETHANE	UG/L		< 1		< 1		< 1		< 1
1,2-DICHLOROPROPANE	UG/L		< 1		< 1		< 1		< 1
CIS-1,3-DICHLOROPROPENE	UG/L		< 1		< 1		< 1		< 1
TRANS-1,3-DICHLOROPROPENE	UG/L		< 1		< 1		< 1		< 1
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5		< 0.5		< 0.5		< 0.5
ACROLEIN	UG/L		< 10		< 10		< 10		< 10
ACRYLONITRILE	UG/L		< 10		< 10		< 10		< 10
ACETONITRILE	UG/L		< 20		< 20		< 20		< 20
FREON 12 (CCL2F2)	UG/L		< 1		4		< 1		< 1
FREON 11 (CCL3F)	UG/L		< 1		3		< 1		1
1,2-DIBROMOETHANE	UG/L		< 0.01		< 0.01		< 0.01		< 0.01
ACETONE	UG/L		< 10		43		< 10		< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 1		< 1		< 1		< 1
2-BUTANONE	UG/L		< 10		17		< 10		< 10
4-METHYL-2-PENTANONE	UG/L		< 10		< 10		< 10		< 10
STYRENE	UG/L		< 1		< 1		< 1		< 1
2,4,5-TRICHLOROPHENOL	UG/L		< 2		< 2		< 2		< 2
M+P-XYLENE	UG/L		< 1		< 1		< 1		< 1
CARBON DISULFIDE	UG/L CS2		< 1		< 1		< 1		< 1
2-HEXANONE	UG/L C6H12O		< 5		< 5		< 5		< 5

FOOTNOTES : A-AVERAGE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ15103 04/25/96	EASTERN CANYONS LCS2 SJ15105 04/25/96	EASTERN CANYONS LCS2(2) SJ18955 07/05/96	EASTERN CANYONS LCS2 SJ18956 07/05/96	EASTERN CANYONS LCS2(F) SJ23483 10/28/96	EASTERN CANYONS LCS2 SJ23485 10/28/96	EASTERN CANYONS LCS2(F) SJ24934 12/05/96	EASTERN CANYONS LCS2 SJ24935 12/05/96
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
2-ACETYLAMINOFLUORENE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-AMINOBIPHENYL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
BENZYL ALCOHOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
P-CHLOROANILINE	UG/L	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
CHLOROBENZILATE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
DIALLATE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
DIBENZOFURAN	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
2,6-DICHLOROPHENOL	UG/L	< 3	< 4	< 4	< 4	< 3	< 3	< 5	< 4
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15
3,3'-DIMETHYLBENZIDINE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
M-DINITROBENZENE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
DIPHENYLAMINE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ETHYL METHANESULFONATE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
FAMPHUR	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
HEXACHLOROPROPENE	UG/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
ISODRIN	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
ISOSAFROLE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
KEPONE	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
METHAPYRILENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
3-METHYLCHOLANTHRENE	UG/L	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13
METHYL METHANESULFONATE	UG/L	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11
2-METHYLNAPHTHALENE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,4-NAPHTHOQUINONE	UG/L	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
1-NAPHTHYLAMINE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 2	< 4
2-NAPHTHYLAMINE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 1	< 4
O-NITROANILINE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
M-NITROANILINE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
P-NITROANILINE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
N-NITROSODI-N-BUTYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
N-NITROSODIETHYLAMINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
N-NITROSOMETHYLETHYLAMINE	UG/L	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
N-NITROSOPIPERIDINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
N-NITROSOPYRROLIDINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
5-NITRO-O-TOLUIDINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
PENTACHLOROBENZENE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
PENTACHLORONITROBENZENE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
PHENACETIN	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
P-PHENYLENEDIAMINE	UG/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
PRONAMIDE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-AVERAGE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ15103 04/25/96	EASTERN CANYONS LCS2 SJ15105 04/25/96	EASTERN CANYONS LCS2(2) SJ18955 07/05/96	EASTERN CANYONS LCS2 SJ18956 07/05/96	EASTERN CANYONS LCS2(F) SJ23483 10/28/96	EASTERN CANYONS LCS2 SJ23485 10/28/96	EASTERN CANYONS LCS2(F) SJ24934 12/05/96	EASTERN CANYONS LCS2 SJ24935 12/05/96
ACID-BASE NEUTRAL EXTRACTABLE									
SAFROLE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4,5-TETRACHLOROBENZEN	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2,3,4,6-TETRACHLOROPHENOL	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
O-TOLUIDINE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
SYM-TRINITROBENZENE	UG/L	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48
ACENAPHTHENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
ACENAPHTHYLENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
ANTHRACENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
BENZIDINE	UG/L	< 62	< 62	< 62	< 62	< 62	< 62	< 62	< 62
BENZO(A)ANTHRACENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
BENZO(A)PYRENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZO(B)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
BENZO(G.H.I.)PERYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BENZO(K)FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
BIS(2-CL-ETHOXY)METHANE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
BIS(2-CHLOROETHYL)ETHER	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
DIETHYLHEXYL PHTHALATE	UG/L	3	< 1	< 1	< 1	< 1	2	2	2
4-BROMOPHENYL PHENYLETHER	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
BUTYLBENZYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-CHLORONAPHTHALENE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-CHLOROPHENYLPHENYLETHER	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
CHRYSENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBENZO(A,H)ANTHRACENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3,3'-DICHLOROBENZIDINE	UG/L	< 14	< 14	< 14	< 14	< 14	< 14	< 14	< 14
DIETHYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
DIMETHYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
DI-N-BUTYL PHTHALATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-DINITROTOLUENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,6-DINITROTOLUENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
DI-N-OCTYL PHTHALATE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
FLUORANTHENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
FLUORENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
HEXACHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
HEXACHLOROBUTADIENE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
HEXACHLOROCYCLOPENTADIENE	UG/L	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
HEXACHLOROETHANE	UG/L	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
INDENO(1,2,3-C,D)PYRENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
ISOPHORONE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NAPHTHALENE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

FOOTNOTES : A-AVERAGE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE

TABLE A.6

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ15103 04/25/96	EASTERN CANYONS LCS2 SJ15105 04/25/96	EASTERN CANYONS LCS2(2) SJ18955 07/05/96	EASTERN CANYONS LCS2 SJ18956 07/05/96	EASTERN CANYONS LCS2(F) SJ23483 10/28/96	EASTERN CANYONS LCS2 SJ23485 10/28/96	EASTERN CANYONS LCS2(F) SJ24934 12/05/96	EASTERN CANYONS LCS2 SJ24935 12/05/96
ACID-BASE NEUTRAL EXTRACTABLE									
NITROBENZENE	UG/L		< 2		< 2		< 2		< 2
N-NITROSODIMETHYLAMINE	UG/L		< 1		< 1		< 1		< 1
N-NITROSODI-N-PROPYLAMINE	UG/L		< 3		< 3		< 3		< 3
PHENANTHRENE	UG/L		< 2		< 2		< 2		< 2
PYRENE	UG/L		< 1		< 1		< 1		< 1
2-CHLOROPHENOL	UG/L		< 2		< 2		< 2		< 2
1,2,4-TRICHLOROBENZENE	UG/L		< 4		< 4		< 4		< 4
2,4-DICHLOROPHENOL	UG/L		< 2		< 2		< 2		< 2
2,4-DIMETHYLPHENOL	UG/L		< 2		< 2		< 2		< 2
2,4-DINITROPHENOL	UG/L		< 19		< 19		< 19		< 19
2-METHYL-4,6DINITROPHENOL	UG/L		< 2		< 2		< 2		< 2
2-NITROPHENOL	UG/L		< 3		< 3		< 3		< 3
4-NITROPHENOL	UG/L		< 18		< 18		< 18		< 18
4-CHLORO-3-METHYLPHENOL	UG/L		< 2		< 2		< 2		< 2
PENTACHLOROPHENOL	UG/L		< 0.1		< 0.1		< 0.1		< 0.1
PHENOL	UG/L		< 2		4		< 2		< 2
2,4,6-TRICHLOROPHENOL	UG/L		< 2		< 2		< 2		< 2
N-NITROSODIPHENYLAMINE	UG/L		< 2		< 2		< 2		< 2
O-CRESOL	UG/L		< 4		< 4		< 4		< 4
M+P CRESOL	UG/L		< 3		4		< 3		< 3

FOOTNOTES : A-AVERAGE B-CHECK NOTES TO USER C-DUPLICATE SPIKE D-AVERAGE OF DUPS E-DUP & SPIKE

TABLE A.7

WATER QUALITY DATA

SURFACE RUNOFF MONITORING RESULTS

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ11415 01/31/96	RUN EQIP SJ12253 02/20/96	RUN EQIP SJ12261 02/20/96	RUN EQIP SJ12859 03/05/96	RUN EQIP SJ24390 11/21/96	RUN EQIP SJ25044 12/09/96	RUN SDB SJ12260 02/20/96	RUN SD1 SJ10642 01/16/96	RUN SD1 SJ11412 01/31/96	RUN SD1 SJ24387 11/21/96
GENERAL											
PH	PH	7.8	6.2	6.5	7.2	6.1	7.7	7.2	7.5	7.3	7.4
CONDUCTIVITY	UMHOS/CM	2.64	5.01	2.33	1.64	< 4	< 4	1950	493	461	1050
SUSPENDED SOLIDS	MG/L	< 4	< 4	< 4	< 4	5	< 4	1070	11400	9610	28800
TOTAL DISSOLVED SOLIDS	MG/L	< 10		19	< 10	< 10	< 10	1500	406	317	700
TOTAL HARDNESS	MG/L CACO3			< 5				615	320		
TOTAL CYANIDE	MG/L CN			< 0.01				< 0.01	0.01		
BORON	MG/L B			< 0.5				< 0.05	0.31		
ANIONS											
NITRATE NITROGEN	MG/L N	< 0.05		< 0.03	< 0.03	< 0.1	< 0.1	3.06	2.34	2.15	3.8
SULFATE	MG/L SO4			< 1				384	176		
CHLORIDE	MG/L CL			< 1				325	17		
TOTAL ALKALINITY	MG/L CACO3			< 10 B				110	130		
BICARBONATE ALKALINITY	MG/L CACO3			< 10 B				110	130		
TOTAL SULFIDE	MG/L S			< 0.1				0.1	< 0.1		
FLUORIDE	MG/L F			< 0.1				0.46	0.6		
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3			< 1.25				512.5	425		
MAGNESIUM-HARDNESS	MG/L CACO3			< 2.06				204.8	593		
SODIUM	MG/L NA			< 1				117	30.3		
POTASSIUM	MG/L K			< 0.05				69.0	36.1		
IRON	MG/L FE			< 0.1				36.9	370		
MANGANESE	MG/L MN			< 0.02				0.68	4.32		
SOLUBLE IRON	MG/L FE			< 0.1				< 0.1	< 0.10		
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N			< 0.05				1.17	0.78		
TOTAL BOD	MG/L O			< 5				33	84		
SOLUBLE BOD	MG/L O			< 5				14.4	7		
TOTAL COD	MG/L O			< 10				214	128		
SOLUBLE COD	MG/L O			< 10				161	56.5		
TOTAL ORGANIC CARBON	MG/L C	< 1	< 1	< 1	< 1	< 0.5	< 0.5	68	17	38	30
OIL & GREASE	MG/L EXTRAC	< 5	< 5	< 5	< 5	< 3	< 3	< 5	< 5	< 5	7.3
TOTAL ORGANIC HALOGEN(TOX	UG/L			21.8 A				31 A	37.5 A		

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ11415 01/31/96	RUN EQIP SJ12253 02/20/96	RUN EQIP SJ12261 02/20/96	RUN EQIP SJ12859 03/05/96	RUN EQIP SJ24390 11/21/96	RUN EQIP SJ25044 12/09/96	RUN SDB SJ12260 02/20/96	RUN SD1 SJ10642 01/16/96	RUN SD1 SJ11412 01/31/96	RUN SD1 SJ24387 11/21/96
METALS											
ARSENIC	MG/L AS	<0.003		<0.003	<0.003	<0.001	<0.001	.0128	0.015	.0294	0.042
BARIUM	MG/L BA	< 0.02		< 0.02	< 0.02	.0021	.0033	0.26	0.38	1.06	2.9
CADMIUM	MG/L CD	< 0.01		< 0.01	< 0.01	<.0005	<.0005	< 0.01	< 0.01	0.03	0.013
TOTAL CHROMIUM	MG/L CR	< 0.02		< 0.02	< 0.02	<0.002	<0.002	0.05	0.12	0.13	0.42
COBALT	MG/L CO	< 0.05		< 0.05	< 0.05	<0.002	<0.002	< 0.05	< 0.05	0.06	0.31
COPPER	MG/L CU	< 0.02		< 0.02	< 0.02	<0.002	.0023	0.09	0.14	0.57	0.5
LEAD	MG/L PB	< 0.1		< 0.2	< 0.2	.0027	.0017	< 0.2	0.24	1.16	0.27
MERCURY	MG/L HG	<.0005		<.0005	<.0005	<.0002	<.0002	.0007	<.0005	<.0005	.0027
NICKEL	MG/L NI	< 0.05		< 0.05	< 0.05	<0.005	<0.005	< 0.05	0.13	0.18	0.54
SELENIUM	MG/L SE	< 0.01		< 0.01	< 0.01	<0.005	<0.005	< 0.01	< 0.01	< 0.01	0.19
SILVER	MG/L AG	< 0.02		< 0.02	< 0.02	<.0005	<.0005	< 0.02	0.03	< 0.02	<.0025
ZINC	MG/L ZN	0.07		< 0.02	< 0.02	0.013	0.022	0.28	0.71	3.35	3
ANTIMONY	MG/L SB	<0.003		.0042 A	<0.003	<0.001	<0.001	0.015	0.004	0.013	<0.005
BERYLLIUM	MG/L BE	<0.002		<0.002	<0.003	<0.001	<0.001	<0.002	0.012	0.013	.0056
THALLIUM	MG/L TL			0.003				<0.003	0.005		
TIN	MG/L SN	< 0.05		< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	
VANADIUM	MG/L V	< 0.05		< 0.05	< 0.05	< 0.01	< 0.01	0.07	0.17	0.22	1.3
SOLUBLE ARSENIC	MG/L AS	<0.003		<0.003	<0.003	<0.001	<0.001	.0046	<0.003	<0.003	.0017
SOLUBLE BARIUM	MG/L BA	< 0.02		< 0.02	< 0.02	<0.002	<0.002	0.08	< 0.02	0.03	0.043
SOLUBLE ANTIMONY	MG/L SB	<0.003		<0.003	<0.003	<0.001	<0.001	0.014	<0.003	<0.003	.0013
SOLUBLE CADMIUM	MG/L CD	< 0.01		< 0.01	< 0.01	<.0005	<.0005	< 0.01	< 0.01	< 0.01	<.0005
SOLUBLE CHROMIUM	MG/L CR	< 0.02		< 0.02	< 0.02	<0.002	<0.002	< 0.02	< 0.02	< 0.02	<0.002
SOLUBLE COBALT	MG/L CO	< 0.05		< 0.05	< 0.05	<0.002	<0.002	< 0.05	< 0.05	< 0.05	<0.002
SOLUBLE COPPER	MG/L CU	< 0.02		< 0.02	< 0.02	<0.002	<0.002	0.03	< 0.02	< 0.02	.0098
SOLUBLE LEAD	MG/L PB	< 0.1		< 0.20	< 0.2	<.0005	.0005	< 0.20	< 0.1	0.13	<.0005
SOLUBLE MANGANESE	MG/L MN			< 0.02				0.23	< 0.02		
SOLUBLE MERCURY	MG/L HG	<.0005		<.0005	<.0005	<.0002	<.0002	<.0005	<.0005	<.0005	<.0002
SOLUBLE NICKEL	MG/L NI	< 0.05		< 0.05	< 0.05	<0.005	<0.005	< 0.05	0.06	< 0.05	.0089
SOLUBLE SELENIUM	MG/L SE	< 0.01		< 0.01	< 0.01	<0.005	<0.005	< 0.01	< 0.01	< 0.01	<0.005
SOLUBLE BERYLLIUM	MG/L BE	<0.002		<0.003	<0.003	<0.001	<0.001	<0.003	0.005	<0.002	<0.001
SOLUBLE SILVER	MG/L AG	< 0.02		< 0.02	< 0.02	<.0005	<.0005	< 0.02	< 0.02	< 0.02	<.0005
SOLUBLE ZINC	MG/L ZN	0.07		< 0.02	< 0.02	0.011	0.011	0.04	0.09	0.06	0.016
SOLUBLE THALLIUM	MG/L TL			0.003				<0.003	0.004		
SOLUBLE TIN	MG/L SN	< 0.05		< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	
SOLUBLE VANADIUM	MG/L V	< 0.05		< 0.05	< 0.05	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.01
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L	< 0.02			< 0.02					<.0266	
PP'-DDD	UG/L	< 0.02			< 0.02					<.0266	
PP'-DDT	UG/L	< 0.02			< 0.02					<.0266	

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ11415 01/31/96	RUN EQIP SJ12253 02/20/96	RUN EQIP SJ12261 02/20/96	RUN EQIP SJ12859 03/05/96	RUN EQIP SJ24390 11/21/96	RUN EQIP SJ25044 12/09/96	RUN SDB SJ12260 02/20/96	RUN SD1 SJ10642 01/16/96	RUN SD1 SJ11412 01/31/96	RUN SD1 SJ24387 11/21/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
LINDANE (GAMMA-BHC)	UG/L	< 0.02			< 0.02	< 0.02	< 0.02			<.0266	< 0.02
HEPTACHLOR	UG/L	< 0.01			< 0.01					<.0133	
ALDRIN	UG/L	< 0.02			< 0.02					<.0266	
DIELDRIN	UG/L	< 0.02			< 0.02					<.0266	
TECHNICAL CHLORDANE	UG/L	< 0.2			< 0.2					<0.266	
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.05	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		RUN EQIP SJ11415 01/31/96	RUN EQIP SJ12253 02/20/96	RUN EQIP SJ12261 02/20/96	RUN EQIP SJ12859 03/05/96	RUN EQIP SJ24390 11/21/96	RUN EQIP SJ25044 12/09/96	RUN SDB SJ12260 02/20/96	RUN SD1 SJ10642 01/16/96	RUN SD1 SJ11412 01/31/96	RUN SD1 SJ24387 11/21/96
VOLATILE ORGANIC COMPOUNDS												
1,2-DICHLOROPROPANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
FREON 11 (CCL3F)	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01
ACETONE	UG/L		< 10	< 10	< 10	< 10	< 10	12	15	11	21	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M+P-XYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON DISULFIDE	UG/L	CS2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-HEXANONE	UG/L	C6H12O	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ACID-BASE NEUTRAL EXTRACTABLE												
DIETHYLHEXYL PHTHALATE	UG/L		< 4			< 4					< 4	
CHRYSENE	UG/L		< 5			< 5					< 5	
DIETHYL PHTHALATE	UG/L		< 5			< 5					< 5	
FLUORANTHENE	UG/L		< 5			< 5					< 5	
PHENANTHRENE	UG/L		< 5			< 5					< 5	
PYRENE	UG/L		< 5			< 5					< 5	
4-NITROPHENOL	UG/L		< 10			< 10					< 10	
PHENOL	UG/L		< 5			< 5	< 5	< 5			< 5	< 5
N-NITROSODIPHENYLAMINE	UG/L		< 5			< 5					< 5	

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD1 SJ25041 12/09/96	RUN SD10 SJ12251 02/20/96	RUN SD11 SJ11414 01/31/96	RUN SD11 SJ12829 03/04/96	RUN SD11 SJ24389 11/21/96	RUN SD11 SJ25043 12/09/96	RUN SD2 SJ10643 01/16/96	RUN SD2 SJ11413 01/31/96	RUN SD2 SJ24388 11/21/96	RUN SD2 SJ25042 12/09/96
GENERAL											
PH	PH	6.9	7	7.3	7.3	7.6	8.5	7	7.3	7.3	7.6
CONDUCTIVITY	UMHOS/CM	620	1120	1980	1920	1560	585	478	832	1130	770
SUSPENDED SOLIDS	MG/L	1950	1900	57100	590	29300	94	8660	8300	8100	2500
TOTAL DISSOLVED SOLIDS	MG/L	590		1490	1630	1180	440	358	208	770	660
TOTAL HARDNESS	MG/L CACO3							380			
TOTAL CYANIDE	MG/L CN							0.01			
BORON	MG/L B							0.39			
ANIONS											
NITRATE NITROGEN	MG/L N	< 0.2		2.86	1.35	4.2	4.3	0.98	0.97	1.9	1.2
SULFATE	MG/L SO4							126			
CHLORIDE	MG/L CL							24			
TOTAL ALKALINITY	MG/L CACO3							190			
BICARBONATE ALKALINITY	MG/L CACO3							190			
TOTAL SULFIDE	MG/L S							< 0.1			
FLUORIDE	MG/L F							0.4			
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3							513			
MAGNESIUM-HARDNESS	MG/L CACO3							548			
SODIUM	MG/L NA							31.7			
POTASSIUM	MG/L K							33.0			
IRON	MG/L FE							327			
MANGANESE	MG/L MN							4.19			
SOLUBLE IRON	MG/L FE							< 0.10			
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N							0.34			
TOTAL BOD	MG/L O							120			
SOLUBLE BOD	MG/L O							9			
TOTAL COD	MG/L O							413			
SOLUBLE COD	MG/L O							73.3			
TOTAL ORGANIC CARBON	MG/L C	300	41	19	11	17	47	42	31	74	150
OIL & GREASE	MG/L EXTRAC	27	< 5	< 5	< 5	< 3	< 3	< 5	< 5	32	53
TOTAL ORGANIC HALOGEN(TOX	UG/L							44.2 A			

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD1 SJ25041 12/09/96	RUN SD10 SJ12251 02/20/96	RUN SD11 SJ11414 01/31/96	RUN SD11 SJ12829 03/04/96	RUN SD11 SJ24389 11/21/96	RUN SD11 SJ25043 12/09/96	RUN SD2 SJ10643 01/16/96	RUN SD2 SJ11413 01/31/96	RUN SD2 SJ24388 11/21/96	RUN SD2 SJ25042 12/09/96
METALS											
ARSENIC	MG/L AS	0.021		0.029	.0114	0.042	0.041	.0172	.0168	0.036	0.13
BARIUM	MG/L BA	0.98		0.63	0.14	2.3	1.5	0.52	0.54	1.1	5.96
CADMIUM	MG/L CD	0.01		0.02	< 0.01	0.014	.0054	< 0.01	< 0.01	0.013	0.049
TOTAL CHROMIUM	MG/L CR	0.11		0.06	0.03	0.65	0.28	0.12	0.1	0.15	0.71
COBALT	MG/L CO	0.041		0.16	< 0.05	0.38	0.12	< 0.05	0.06	0.061	0.33
COPPER	MG/L CU	0.34		0.25	0.04	0.63	0.29	< 0.02	0.15	0.39	1.6
LEAD	MG/L PB	0.35		1.07	0.16 B	0.19	0.18	0.41	0.18	0.35	2
MERCURY	MG/L HG	.0007		<.0005	<.0005	0.003	.0003	0.001	<.0005	.0018	.0037
NICKEL	MG/L NI	0.13		0.25	< 0.05	0.74	0.29	0.13	0.14	0.2	0.7
SELENIUM	MG/L SE	<0.025		0.013	< 0.01	<0.025	<0.025	< 0.01	< 0.01	<0.025	<0.025
SILVER	MG/L AG	.0027		< 0.02	< 0.02	<.0025	<.0025	< 0.02	< 0.02	.0026	0.014
ZINC	MG/L ZN	2.7		0.5	0.16	2.2	0.83	0.71	1.14	2.2	7.94
ANTIMONY	MG/L SB	.0071		<0.003	.0052	<0.005	<0.005	0.004	<0.003	<0.005	<0.005
BERYLLIUM	MG/L BE	<0.005		0.11	<0.003	.0063	<0.005	0.011	0.014	.0083	.0064
THALLIUM	MG/L TL							0.011			
TIN	MG/L SN			< 0.05	< 0.05			< 0.05	< 0.05		
VANADIUM	MG/L V	0.14		0.21	0.06	1.6	0.36	0.15	0.19	0.43	0.92
SOLUBLE ARSENIC	MG/L AS	.0043		<0.003	<0.003	<0.001	.0015	<0.003	<0.003	.0045	.0043
SOLUBLE BARIUM	MG/L BA	0.085		0.06	0.03	0.043	0.043	0.03	0.05	0.056	0.048
SOLUBLE ANTIMONY	MG/L SB	.0057		<0.003	<0.003	<0.001	<0.001	<0.003	<0.003	.0036	.0062
SOLUBLE CADMIUM	MG/L CD	.0005		< 0.01	< 0.01	<.0005	<.0005	< 0.01	< 0.01	<.0005	<.0005
SOLUBLE CHROMIUM	MG/L CR	0.011		< 0.02	< 0.02	.0049	0.011	< 0.02	< 0.02	<0.002	.0058
SOLUBLE COBALT	MG/L CO	.0045		< 0.05	< 0.05	<0.002	<0.002	< 0.05	< 0.05	<0.002	<0.002
SOLUBLE COPPER	MG/L CU	0.011		< 0.02	< 0.02	0.012	.0036	< 0.02	< 0.02	.0038	0.01
SOLUBLE LEAD	MG/L PB	.0025		0.18	0.11 B	.0006	<.0005	< 0.1	< 0.1	<.0005	<.0005
SOLUBLE MANGANESE	MG/L MN							0.08			
SOLUBLE MERCURY	MG/L HG	<.0002		<.0005	<.0005	<.0002	<.0002	<.0005	<.0005	<.0002	<.0002
SOLUBLE NICKEL	MG/L NI	0.028		< 0.05	< 0.05	.0081	<0.005	< 0.05	< 0.05	0.013	0.021
SOLUBLE SELENIUM	MG/L SE	<0.005		0.013	< 0.01	.0082	<0.005	< 0.01	< 0.01	.0053	.0096
SOLUBLE BERYLLIUM	MG/L BE	<0.001		<0.002	<0.003	<0.001	<0.001	0.005	<0.002	<0.001	<0.001
SOLUBLE SILVER	MG/L AG	<.0005		< 0.02	< 0.02	<.0005	<.0005	< 0.02	< 0.02	<.0005	<.0005
SOLUBLE ZINC	MG/L ZN	0.33		0.08	0.03	0.037	.0083	< 0.02	0.07	0.016	0.076
SOLUBLE THALLIUM	MG/L TL							0.011			
SOLUBLE TIN	MG/L SN			< 0.05	< 0.05			< 0.05	< 0.05		
SOLUBLE VANADIUM	MG/L V	< 0.01		< 0.05	< 0.05	< 0.01	< 0.01	< 0.05	< 0.05	< 0.01	< 0.01
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
PP'-DDE	UG/L			<.0266	< 0.02				<.0266		
PP'-DDD	UG/L			<.0266	< 0.02				<.0266		
PP'-DDT	UG/L			<.0266	< 0.02				<.0266		

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD1 SJ25041 12/09/96	RUN SD10 SJ12251 02/20/96	RUN SD11 SJ11414 01/31/96	RUN SD11 SJ12829 03/04/96	RUN SD11 SJ24389 11/21/96	RUN SD11 SJ25043 12/09/96	RUN SD2 SJ10643 01/16/96	RUN SD2 SJ11413 01/31/96	RUN SD2 SJ24388 11/21/96	RUN SD2 SJ25042 12/09/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS											
LINDANE (GAMMA-BHC)	UG/L	< 0.1		<.0266	< 0.02	< 0.02	< 0.02		<.0266	< 0.1	< 0.02
HEPTACHLOR	UG/L			<.0133	< 0.01				<.0133		
ALDRIN	UG/L			<.0266	< 0.02				<.0266		
DIELDRIN	UG/L			<.0266	< 0.02				<.0266		
TECHNICAL CHLORDANE	UG/L			<0.266	< 0.2				<0.266		
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.05	< 0.1	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		RUN SD1 SJ25041 12/09/96	RUN SD10 SJ12251 02/20/96	RUN SD11 SJ11414 01/31/96	RUN SD11 SJ12829 03/04/96	RUN SD11 SJ24389 11/21/96	RUN SD11 SJ25043 12/09/96	RUN SD2 SJ10643 01/16/96	RUN SD2 SJ11413 01/31/96	RUN SD2 SJ24388 11/21/96	RUN SD2 SJ25042 12/09/96
VOLATILE ORGANIC COMPOUNDS												
1,2-DICHLOROPROPANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
FREON 11 (CCL3F)	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.05	< 0.1	< 0.01	< 0.01	< 0.01	< 0.05	< 0.05	< 0.01
ACETONE	UG/L		15	15	< 10	< 10	< 10	< 10	37	< 10	29	35
CIS-1,2-DICHLOROETHYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-BUTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M+P-XYLENE	UG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON DISULFIDE	UG/L	CS2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-HEXANONE	UG/L	C6H12O	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ACID-BASE NEUTRAL EXTRACTABLE												
DIETHYLHEXYL PHTHALATE	UG/L				< 4	< 4				< 4		
CHRYSENE	UG/L				< 5	< 5				< 5		
DIETHYL PHTHALATE	UG/L				< 5	< 5				< 5		
FLUORANTHENE	UG/L				< 5	< 5				< 5		
PHENANTHRENE	UG/L				< 5	< 5				< 5		
PYRENE	UG/L				< 5	< 5				< 5		
4-NITROPHENOL	UG/L				< 10	< 10				< 10		
PHENOL	UG/L		< 20		< 5	< 5	< 5	< 10		< 5	< 5	< 10
N-NITROSODIPHENYLAMINE	UG/L				< 5	< 5				< 5		

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD3 SJ12257 02/20/96	RUN SD4 SJ12258 02/20/96	RUN SD5 SJ12259 02/20/96	RUN SD9 SJ12252 02/20/96	RUN TRIP SJ10644 01/16/96	RUN TRIP SJ11416 01/31/96	RUN TRIP SJ12254 02/20/96	RUN TRIP SJ12830 03/04/96	RUN TRIP SJ24391 11/21/96	RUN TRIP SJ25045 12/09/96
GENERAL											
PH	PH	7.5	7.3	7.3	7.5						
CONDUCTIVITY	UMHOS/CM	628	378	277	2020						
SUSPENDED SOLIDS	MG/L	467	600	813	3380						
ORGANIC MATTER											
TOTAL ORGANIC CARBON	MG/L C	16	4	9	16						
OIL & GREASE	MG/L EXTRAC	< 5	< 5	< 5	< 5						
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
METHYL IODIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE BROMIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	UG/L	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.7

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD3 SJ12257 02/20/96	RUN SD4 SJ12258 02/20/96	RUN SD5 SJ12259 02/20/96	RUN SD9 SJ12252 02/20/96	RUN TRIP SJ10644 01/16/96	RUN TRIP SJ11416 01/31/96	RUN TRIP SJ12254 02/20/96	RUN TRIP SJ12830 03/04/96	RUN TRIP SJ24391 11/21/96	RUN TRIP SJ25045 12/09/96
VOLATILE ORGANIC COMPOUNDS											
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
FREON 11 (CCL3F)	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	32	< 10	< 10	10	< 10	< 10	< 10	< 10	10	11
CIS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M+P-XYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON DISULFIDE	UG/L CS2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-HEXANONE	UG/L C6H12O	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-AMENDED TEST RESULT B-VALUE >MDL, <RL

TABLE A.8

WATER QUALITY DATA

REUSED WATER MONITORING RESULTS

TABLE A.8

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS(F) SJ12771 03/01/96	EFFL REUS SJ12756 03/01/96	EFFI REUS(F) SJ17792 06/06/96	EFFL REUS SJ17793 06/06/96	EFFI REUS(F) SJ21308 09/04/96	EFFL REUS SJ21309 09/04/96	EFFI REUS(F) SJ24936 12/05/96	EFFL REUS SJ24937 12/05/96
GENERAL									
PH	PH		8.12 B		7.93		7.38		7.48
CONDUCTIVITY	UMHOS/CM		2560 C		2600		2600		2680
TOTAL DISSOLVED SOLIDS	MG/L		2163		2151		2121 C		2240
TOTAL HARDNESS	MG/L CACO3		1197 E		1204		1346		1365
TOTAL CYANIDE	MG/L CN		<0.002		<0.002		<0.002		0.003
BORON	MG/L B		0.64		0.81		0.32 C		0.61
GROSS ALPHA RADIOACTIVITY	PCI/L		4.1				4.7		
GROSS BETA RADIOACTIVITY	PCI/L						4.5		
ANIONS									
NITRATE NITROGEN	MG/L N		9.99 D		10.8 D		6.65 D		3.86 D
SULFATE	MG/L SO4		1010 D		1050 D		1140 D		1140 D
CHLORIDE	MG/L CL		86.5 D		106 D		103 D		98.5 D
TOTAL ALKALINITY	MG/L CACO3		374 C		351		342		335
BICARBONATE ALKALINITY	MG/L CACO3		374		351		342		335
TOTAL SULFIDE	MG/L S		< 0.1 B		< 0.1		< 0.1 B		< 0.1
FLUORIDE	MG/L F		1.23		1.29		1.13		0.95
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3		547 A		574 A		547 A		517
MAGNESIUM-HARDNESS	MG/L CACO3		650 A		630 A		799 A		848
SODIUM	MG/L NA		180 A		183 A		185 A		177
POTASSIUM	MG/L K		3.8 A		3.7 A		5.9 A		6.8
IRON	MG/L FE	< 0.02	0.16 A	< 0.02	0.07 A	< 0.02	0.06 A	< 0.02	0.12
MANGANESE	MG/L MN	0.006	0.004 A	<0.003	<0.003 A	0.12 D	0.10 A	0.16	0.16
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N		< 0.1		< 0.1		< 0.1		0.5
TOTAL BOD	MG/L O		< 0.7 C		< 0.7 C		1 C		6
SOLUBLE BOD	MG/L O		< 0.7		< 0.7		1		< 0.7
TOTAL COD	MG/L O		6 C		7		4		4
SOLUBLE COD	MG/L O		2		5		6		4
TOTAL ORGANIC CARBON	MG/L C		1.9		1.8		0.82 A		1.1
OIL & GREASE	MG/L EXTRAC		1.7		< 1		< 1		< 1
TOTAL ORGANIC HALOGEN(TOX	UG/L		20 F		13		19		9.6

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AVERAGE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.8

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS(F) SJ12771 03/01/96	EFFL REUS SJ12756 03/01/96	EFFI REUS(F) SJ17792 06/06/96	EFFL REUS SJ17793 06/06/96	EFFI REUS(F) SJ21308 09/04/96	EFFL REUS SJ21309 09/04/96	EFFI REUS(F) SJ24936 12/05/96	EFFL REUS SJ24937 12/05/96
METALS									
ARSENIC	MG/L AS	<.0010	<.0010	<.0010	<.0010	<.0010	<.0010	<.0010	<.0010
BARIUM	MG/L BA	0.02	0.02 A	0.02	0.02 A	0.02 D	0.02 A	0.02	0.02
CADMIUM	MG/L CD	<0.003	<0.003 A	<0.003	<0.003 A	<0.003	<0.003 A	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02 A	< 0.02	< 0.02 A	< 0.02	< 0.02 A	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	.0002 A	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02 A	< 0.02	< 0.02 A	< 0.02	< 0.02 A	< 0.02	< 0.02
SELENIUM	MG/L SE	.0074	.0068	.0136	.0140	.0061	.0061	.0024	.0027
SILVER	MG/L AG	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01 A	< 0.01	< 0.01
ZINC	MG/L ZN	0.01	< 0.01 A	0.02	0.02 A	< 0.01	0.01 A	< 0.01	< 0.01
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0005 A	<.0005	<.0005 A	<.0005	<.0005	<.0005	<.0005 A	<.0005
THALLIUM	MG/L TL	<0.002 A	<0.002	<0.002 A	<0.002	<0.002	<0.002	<0.001 A	<0.001
TIN	MG/L SN	< 0.06	< 0.06 A	< 0.06	< 0.06 A	< 0.06	< 0.06 A	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05 A	< 0.05	< 0.05 A	< 0.05	< 0.05 A	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L					< 0.05			
DINOSEB	UG/L					< 0.1			
THIONAZIN	UG/L					< 1			
DIMETHOATE	UG/L					< 1			
DISULFOTON	UG/L					< 1			
METHYL PARATHION	UG/L					< 1			
ETHYL PARATHION	UG/L					< 1			
PHORATE	UG/L					< 1			
PP'-DDE	UG/L					< 0.01			
PP'-DDD	UG/L					< 0.01			
PP'-DDT	UG/L					< 0.01			
ALPHA-BHC	UG/L					< 0.01			
LINDANE (GAMMA-BHC)	UG/L					< 0.01			
HEPTACHLOR	UG/L					< 0.01			
HEPTACHLOR EPOXIDE	UG/L					< 0.01			
ALDRIN	UG/L					< 0.01			
DIELDRIN	UG/L					< 0.01			
ENDRIN	UG/L					< 0.01			
TOXAPHENE	UG/L					< 0.5			
METHOXYCLOR	UG/L					< 0.01			
2,4-D(ACID)	UG/L					< 0.5			

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AVERAGE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.8

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS(F) SJ12771 03/01/96	EFFL REUS SJ12756 03/01/96	EFFI REUS(F) SJ17792 06/06/96	EFFL REUS SJ17793 06/06/96	EFFI REUS(F) SJ21308 09/04/96	EFFL REUS SJ21309 09/04/96	EFFI REUS(F) SJ24936 12/05/96	EFFL REUS SJ24937 12/05/96
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-TP(SILVEX)	UG/L						< 0.05		
AROCLOR 1242	UG/L						< 0.1		
AROCLOR 1254	UG/L						< 0.05		
BETA-BHC	UG/L						< 0.01		
DELTA-BHC	UG/L						< 0.01		
ENDOSULFAN I	UG/L						< 0.01		
ENDOSULFAN II	UG/L						< 0.01		
ENDOSULFAN SULFATE	UG/L						< 0.1		
ENDRIN ALDEHYDE	UG/L						< 0.01		
AROCLOR 1016	UG/L						< 0.1		
AROCLOR 1221	UG/L						< 0.1		
AROCLOR 1232	UG/L						< 0.1		
AROCLOR 1248	UG/L						< 0.1		
AROCLOR 1260	UG/L						< 0.1		
TECHNICAL CHLORDANE	UG/L						< 0.05		
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L		< 1		< 1		< 1		< 1
BROMOCHLOROMETHANE	UG/L		< 1		< 1		< 1		< 1
CHLOROPRENE	UG/L		< 1		< 1		< 1		< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L						< 0.01		
T-1,4-DICHLORO-2-BUTENE	UG/L		< 1		< 1		< 1		< 1
1,3-DICHLOROPROPANE	UG/L		< 0.3		< 0.3		< 0.3		< 0.3
2,2-DICHLOROPROPANE	UG/L		< 1		< 1		< 1		< 1
1,1-DICHLOROPROPENE	UG/L		< 1		< 1		< 1		< 1
ISOBUTYL ALCOHOL	UG/L		< 10		< 10		< 10		< 10
METHACRYLONITRILE	UG/L		< 10		< 10		< 10		< 10
METHYL IODIDE	UG/L		< 1		< 1		< 1		< 1
METHYLENE BROMIDE	UG/L		< 1		< 1		< 1		< 1
PROPIONITRILE	UG/L		< 10		< 10		< 10		< 10
1,1,1,2-TETRACHLOROETHANE	UG/L		< 1		< 1		< 1		< 1
1,2,3-TRICHLOROPROPANE	UG/L		< 1		< 1		< 1		< 1
METHYL METHACRYLATE	UG/L		< 10		< 10		< 10		< 10
ETHYL METHACRYLATE	UG/L		< 5		< 5		< 5		< 5
METHYLENE CHLORIDE	UG/L		2		2		< 1		< 1
CHLOROFORM	UG/L		< 1		< 1		< 1		< 1
1,1,1-TRICHLOROETHANE	UG/L		< 1		< 1		< 1		< 1
CARBON TETRACHLORIDE	UG/L		< 0.3		< 0.3		< 0.3		< 0.3
1,1-DICHLOROETHENE	UG/L		< 1		< 1		< 1		< 1
TRICHLOROETHYLENE	UG/L		< 1		< 1		< 1		< 1

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F-10% RULE EXCEEDED

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WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		EFFI REUS(F) SJ12771 03/01/96	EFFL REUS SJ12756 03/01/96	EFFI REUS(F) SJ17792 06/06/96	EFFL REUS SJ17793 06/06/96	EFFI REUS(F) SJ21308 09/04/96	EFFL REUS SJ21309 09/04/96	EFFI REUS(F) SJ24936 12/05/96	EFFL REUS SJ24937 12/05/96
VOLATILE ORGANIC COMPOUNDS										
TETRACHLOROETHYLENE	UG/L			< 1		< 1		< 1		< 1
BROMODICHLOROMETHANE	UG/L			< 1		< 1		< 1		< 1
DIBROMOCHLOROMETHANE	UG/L			< 1		< 1		< 1		< 1
BROMOFORM	UG/L			< 1		< 1		< 1		< 1
CHLOROBENZENE	UG/L			< 1		< 1		< 1		< 1
VINYL CHLORIDE	UG/L			< 0.3		< 0.3		< 0.3		< 0.3
O-DICHLOROBENZENE	UG/L			< 1		< 1		< 1		< 1
M-DICHLOROBENZENE	UG/L			< 1		< 1		< 1		< 1
P-DICHLOROBENZENE	UG/L			< 1		< 1		< 1		< 1
1,1-DICHLOROETHANE	UG/L			< 1		< 1		< 1		< 1
1,1,2-TRICHLOROETHANE	UG/L			< 1		< 1		< 1		< 1
1,2-DICHLOROETHANE	UG/L			< 0.3		< 0.3		< 0.3		< 0.3
BENZENE	UG/L			< 0.5		< 0.5		< 0.5		< 0.5
TOLUENE	UG/L			< 1		< 1		< 1		< 1
ETHYL BENZENE	UG/L			< 1		< 1		< 1		< 1
VINYL ACETATE	UG/L			< 10		< 10		< 10		< 10
O-XYLENE	UG/L			< 1		< 1		< 1		< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L			< 1		< 1		< 1		< 1
BROMOMETHANE	UG/L			< 1		< 1		< 1		< 1
CHLOROETHANE	UG/L			< 1		< 1		< 1		< 1
2-CHLOROETHYLVINYLETHER	UG/L			< 1		< 1		< 1		< 1
CHLOROMETHANE	UG/L			< 1		< 1		< 1		< 1
1,2-DICHLOROPROPANE	UG/L			< 1		< 1		< 1		< 1
CIS-1,3-DICHLOROPROPENE	UG/L			< 1		< 1		< 1		< 1
TRANS-1,3-DICHLOROPROPENE	UG/L			< 1		< 1		< 1		< 1
1,1,2,2-TETRACHLOROETHANE	UG/L			< 0.5		< 0.5		< 0.5		< 0.5
ACROLEIN	UG/L			< 10		< 10		< 10		< 10
ACRYLONITRILE	UG/L			< 10		< 10		< 10		< 10
ACETONITRILE	UG/L			< 20		< 20		< 20		< 20
FREON 12 (CCL2F2)	UG/L			< 1		< 1		< 1		< 1
FREON 11 (CCL3F)	UG/L			< 1		< 1		< 1		< 1
1,2-DIBROMOETHANE	UG/L							< 0.01		
ACETONE	UG/L			< 10		< 10		< 10		< 10
CIS-1,2-DICHLOROETHYLENE	UG/L			< 1		< 1		< 1		< 1
2-BUTANONE	UG/L			< 10		< 10		< 10		< 10
4-METHYL-2-PENTANONE	UG/L			< 10		< 10		< 10		< 10
STYRENE	UG/L			< 1		< 1		< 1		< 1
2,4,5-TRICHLOROPHENOL	UG/L			< 2		< 2		< 2		< 2
M+P-XYLENE	UG/L			< 1		< 1		< 1		< 1
CARBON DISULFIDE	UG/L	CS2		< 1		< 1		< 1		< 1
2-HEXANONE	UG/L	C6H12O		< 5		< 5		< 5		< 5

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F-10% RULE EXCEEDED

TABLE A.8

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ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L		< 4		< 4		< 4		< 4
2-ACETYLAMINOFLUORENE	UG/L		< 3		< 3		< 3		< 3
4-AMINOBIPHENYL	UG/L		< 5		< 5		< 5		< 5
BENZYL ALCOHOL	UG/L		< 5		< 5		< 5		< 5
P-CHLOROANILINE	UG/L		< 6		< 6		< 6		< 6
CHLOROBENZILATE	UG/L		< 3		< 3		< 3		< 3
DIALLATE	UG/L		< 4		< 4		< 4		< 4
DIBENZOFURAN	UG/L		< 4		< 4		< 4		< 4
2,6-DICHLOROPHENOL	UG/L		< 3		< 3		< 5		< 5
P(DIMETHYLAMINO)AZOBENZEN	UG/L		< 4		< 4		< 4		< 4
7,12-DIMETHYLBENZ(A)ANTHR	UG/L		< 15		< 15		< 15		< 15
3,3'-DIMETHYLBENZIDINE	UG/L		< 4		< 4		< 4		< 4
M-DINITROBENZENE	UG/L		< 4		< 4		< 4		< 4
DIPHENYLAMINE	UG/L		< 10		< 10		< 10		< 10
ETHYL METHANESULFONATE	UG/L		< 4		< 4		< 4		< 4
FAMPHUR	UG/L		< 50		< 50		< 1		< 50
HEXACHLOROPROPENE	UG/L		< 20		< 20		< 20		< 20
ISODRIN	UG/L		< 5		< 5		< 5		< 5
ISOSAFROLE	UG/L		< 5		< 5		< 5		< 5
KEPONE	UG/L		< 50		< 50		< 50		< 50
METHAPYRILENE	UG/L		< 5		< 5		< 5		< 5
3-METHYLCHOLANTHRENE	UG/L		< 13		< 13		< 13		< 13
METHYL METHANESULFONATE	UG/L		< 11		< 11		< 11		< 11
2-METHYLNAPHTHALENE	UG/L		< 5		< 5		< 5		< 5
1,4-NAPHTHOQUINONE	UG/L		< 8		< 8		< 8		< 8
1-NAPHTHYLAMINE	UG/L		< 4		< 4		< 2		< 2
2-NAPHTHYLAMINE	UG/L		< 4		< 4		< 1		< 1
O-NITROANILINE	UG/L		< 4		< 4		< 4		< 4
M-NITROANILINE	UG/L		< 4		< 4		< 4		< 4
P-NITROANILINE	UG/L		< 4		< 4		< 4		< 4
N-NITROSODI-N-BUTYLAMINE	UG/L		< 5		< 5		< 5		< 5
N-NITROSODIETHYLAMINE	UG/L		< 5		< 5		< 5		< 5
N-NITROSOMETHYLETHYLAMINE	UG/L		< 6		< 6		< 6		< 6
N-NITROSOPIPERIDINE	UG/L		< 5		< 5		< 5		< 5
N-NITROSOPYRROLIDINE	UG/L		< 5		< 5		< 5		< 5
5-NITRO-O-TOLUIDINE	UG/L		< 5		< 5		< 5		< 5
PENTACHLOROBENZENE	UG/L		< 4		< 4		< 4		< 4
PENTACHLORONITROBENZENE	UG/L		< 4		< 4		< 4		< 4
PHENACETIN	UG/L		< 4		< 4		< 4		< 4
P-PHENYLENEDIAMINE	UG/L		< 20		< 20		< 20		< 20
PRONAMIDE	UG/L		< 5		< 5		< 5		< 5

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ACID-BASE NEUTRAL EXTRACTABLE									
SAFROLE	UG/L		< 5		< 5		< 5		< 5
1,2,4,5-TETRACHLOROBENZEN	UG/L		< 5		< 5		< 5		< 5
2,3,4,6-TETRACHLOROPHENOL	UG/L		< 5		< 5		< 5		< 5
O-TOLUIDINE	UG/L		< 5		< 5		< 5		< 5
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		< 5		< 5		< 5		< 5
SYM-TRINITROBENZENE	UG/L		< 48		< 48		< 48		< 48
ACENAPHTHENE	UG/L		< 2		< 2		< 2		< 2
ACENAPHTHYLENE	UG/L		< 2		< 2		< 2		< 2
ANTHRACENE	UG/L		< 2		< 2		< 2		< 2
BENZIDINE	UG/L		< 62		< 62		< 62		< 62
BENZO(A)ANTHRACENE	UG/L		< 2		< 2		< 2		< 2
BENZO(A)PYRENE	UG/L		< 0.3		< 0.3		< 0.3		< 0.3
BENZO(B)FLUORANTHENE	UG/L		< 2		< 2		< 2		< 2
BENZO(G.H.I.)PERYLENE	UG/L		< 1		< 1		< 1		< 1
BENZO(K)FLUORANTHENE	UG/L		< 2		< 2		< 2		< 2
BIS(2-CL-ETHOXY)METHANE	UG/L		< 2		< 2		< 2		< 2
BIS(2-CHLOROETHYL)ETHER	UG/L		< 1		< 1		< 1		< 1
BIS(2-CL-ISOPROPYL)ETHER	UG/L		< 7		< 7		< 7		< 7
DIETHYLHEXYL PHTHALATE	UG/L		< 1		5		1		1
4-BROMOPHENYL PHENYLETHER	UG/L		< 2		< 2		< 2		< 2
BUTYLBENZYL PHTHALATE	UG/L		< 2		< 2		< 2		< 2
2-CHLORONAPHTHALENE	UG/L		< 3		< 3		< 3		< 3
4-CHLOROPHENYLPHENYLETHER	UG/L		< 2		< 2		< 2		< 2
CHRYSENE	UG/L		< 1		< 1		< 1		< 1
DIBENZO(A,H)ANTHRACENE	UG/L		< 1		< 1		< 1		< 1
3,3'-DICHLOROBENZIDINE	UG/L		< 14		< 14		< 14		< 14
DIETHYL PHTHALATE	UG/L		< 2		< 2		< 2		< 2
DIMETHYL PHTHALATE	UG/L		< 2		< 2		< 2		< 2
DI-N-BUTYL PHTHALATE	UG/L		< 1		< 1		< 1		< 1
2,4-DINITROTOLUENE	UG/L		< 2		< 2		< 2		< 2
2,6-DINITROTOLUENE	UG/L		< 2		< 2		< 2		< 2
DI-N-OCTYL PHTHALATE	UG/L		< 2		< 2		< 2		< 2
FLUORANTHENE	UG/L		< 2		< 2		< 2		< 2
FLUORENE	UG/L		< 2		< 2		< 2		< 2
HEXACHLOROBENZENE	UG/L		< 1		< 1		< 1		< 1
HEXACHLOROBUTADIENE	UG/L		< 4		< 4		< 4		< 4
HEXACHLOROCYCLOPENTADIENE	UG/L		< 30		< 30		< 30		< 30
HEXACHLOROETHANE	UG/L		< 4		< 4		< 4		< 4
INDENO(1,2,3-C,D)PYRENE	UG/L		< 2		< 2		< 2		< 2
ISOPHORONE	UG/L		< 1		< 1		< 1		< 1
NAPHTHALENE	UG/L		< 3		< 3		< 3		< 3

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ACID-BASE NEUTRAL EXTRACTABLE									
NITROBENZENE	UG/L		< 2		< 2		< 2		< 2
N-NITROSODIMETHYLAMINE	UG/L		< 1		< 1		< 1		< 1
N-NITROSODI-N-PROPYLAMINE	UG/L		< 3		< 3		< 3		< 3
PHENANTHRENE	UG/L		< 2		< 2		< 2		< 2
PYRENE	UG/L		< 1		< 1		< 1		< 1
2-CHLOROPHENOL	UG/L		< 2		< 2		< 2		< 2
1,2,4-TRICHLOROBENZENE	UG/L		< 4		< 4		< 4		< 4
2,4-DICHLOROPHENOL	UG/L		< 2		< 2		< 2		< 2
2,4-DIMETHYLPHENOL	UG/L		< 2		< 2		< 2		< 2
2,4-DINITROPHENOL	UG/L		< 19		< 19		< 19		< 19
2-METHYL-4,6DINITROPHENOL	UG/L		< 2		< 2		< 2		< 2
2-NITROPHENOL	UG/L		< 3		< 3		< 3		< 3
4-NITROPHENOL	UG/L		< 18		< 18		< 18		< 18
4-CHLORO-3-METHYLPHENOL	UG/L		< 2		< 2		< 2		< 2
PENTACHLOROPHENOL	UG/L						< 0.1		
PHENOL	UG/L		< 2		< 2		< 2		< 2
2,4,6-TRICHLOROPHENOL	UG/L		< 2		< 2		< 2		< 2
N-NITROSODIPHENYLAMINE	UG/L		< 2		< 2		< 2		< 2
O-CRESOL	UG/L		< 4		< 4		< 4		< 4
M+P CRESOL	UG/L		< 3		< 3		< 3		< 3

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AVERAGE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.9

WATER QUALITY DATA

QUALITY ASSURANCE/QUALITY CONTROL DATA

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ12757 03/01/96	BLNK TRIP SJ13233 03/13/96	BLNK TRIP SJ13248 03/13/96	BLNK TRIP SJ13372 03/15/96	BLNK TRIP SJ13377 03/15/96	BLNK TRIP SJ13555 03/20/96	BLNK TRIP SJ13562 03/20/96	BLNK TRIP SJ15106 04/25/96	BLNK TRIP SJ17741 06/05/96	BLNK TRIP SJ17751 06/05/96
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L								< 1		
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L								< 1		
1,2-DIBROMO-3-CHLOROPROPA	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L								< 0.3		
2,2-DICHLOROPROPANE	UG/L								< 1		
1,1-DICHLOROPROPENE	UG/L								< 1		
ISOBUTYL ALCOHOL	UG/L								< 10		
METHACRYLONITRILE	UG/L								< 10		
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L								< 10		
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L								< 10		
ETHYL METHACRYLATE	UG/L								< 5		
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L								< 1		
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ12757 03/01/96	BLNK TRIP SJ13233 03/13/96	BLNK TRIP SJ13248 03/13/96	BLNK TRIP SJ13372 03/15/96	BLNK TRIP SJ13377 03/15/96	BLNK TRIP SJ13555 03/20/96	BLNK TRIP SJ13562 03/20/96	BLNK TRIP SJ15106 04/25/96	BLNK TRIP SJ17741 06/05/96	BLNK TRIP SJ17751 06/05/96
VOLATILE ORGANIC COMPOUNDS											
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L								< 1		
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L								< 10		
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L								< 20		
FREON 12 (CCL2F2)	UG/L								< 1		
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 A	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L										
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ17794 06/06/96	BLNK TRIP SJ17893 06/10/96	BLNK TRIP SJ17902 06/10/96	BLNK TRIP SJ17917 06/10/96	BLNK TRIP SJ18504 06/24/96	BLNK TRIP SJ18517 06/24/96	BLNK TRIP SJ18957 07/05/96	BLNK TRIP SJ21304 09/04/96	BLNK TRIP SJ21310 09/04/96	BLNK TRIP SJ21319 09/04/96
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ17794 06/06/96	BLNK TRIP SJ17893 06/10/96	BLNK TRIP SJ17902 06/10/96	BLNK TRIP SJ17917 06/10/96	BLNK TRIP SJ18504 06/24/96	BLNK TRIP SJ18517 06/24/96	BLNK TRIP SJ18957 07/05/96	BLNK TRIP SJ21304 09/04/96	BLNK TRIP SJ21310 09/04/96	BLNK TRIP SJ21319 09/04/96
VOLATILE ORGANIC COMPOUNDS											
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ21366 09/05/96	BLNK TRIP SJ21369 09/05/96	BLNK TRIP SJ21481 09/09/96	BLNK TRIP SJ21494 09/09/96	BLNK TRIP SJ21533 09/10/96	BLNK TRIP SJ21539 09/10/96	BLNK TRIP SJ21624 09/11/96	BLNK TRIP SJ21638 09/11/96	BLNK TRIP SJ23487 10/28/96	BLNK TRIP SJ24703 12/02/96
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L						< 1		< 1		
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L						< 1		< 1		
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L						< 0.3		< 0.3		
2,2-DICHLOROPROPANE	UG/L						< 1		< 1.0		
1,1-DICHLOROPROPENE	UG/L						< 1		< 1		
ISOBUTYL ALCOHOL	UG/L						< 10		< 10		
METHACRYLONITRILE	UG/L						< 10		< 10		
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L						< 10		< 10		
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L						< 10		< 10		
ETHYL METHACRYLATE	UG/L						< 5		< 5		
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L						< 1		< 1		
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ21366 09/05/96	BLNK TRIP SJ21369 09/05/96	BLNK TRIP SJ21481 09/09/96	BLNK TRIP SJ21494 09/09/96	BLNK TRIP SJ21533 09/10/96	BLNK TRIP SJ21539 09/10/96	BLNK TRIP SJ21624 09/11/96	BLNK TRIP SJ21638 09/11/96	BLNK TRIP SJ23487 10/28/96	BLNK TRIP SJ24703 12/02/96
VOLATILE ORGANIC COMPOUNDS											
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	UG/L						< 1		< 1		
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACROLEIN	UG/L						< 10		< 10		
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ACETONITRILE	UG/L						< 20		< 20		
FREON 12 (CCL2F2)	UG/L						< 1		< 1		
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ24711 12/02/96	BLNK TRIP SJ24781 12/03/96	BLNK TRIP SJ24800 12/03/96	BLNK TRIP SJ24849 12/04/96	BLNK TRIP SJ24860 12/04/96	BLNK TRIP SJ24938 12/05/96	BLNK TRIP SJ24966 12/06/96	BLNK TRIP SJ24986 12/06/96	BLNK TRIP SJ25306 12/16/96	BLNK TRIP SJ25315 12/16/96
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FREON 11 (CCL3F)	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01 B	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP SJ24711 12/02/96	BLNK TRIP SJ24781 12/03/96	BLNK TRIP SJ24800 12/03/96	BLNK TRIP SJ24849 12/04/96	BLNK TRIP SJ24860 12/04/96	BLNK TRIP SJ24938 12/05/96	BLNK TRIP SJ24966 12/06/96	BLNK TRIP SJ24986 12/06/96	BLNK TRIP SJ25306 12/16/96	BLNK TRIP SJ25315 12/16/96
VOLATILE ORGANIC COMPOUNDS											
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

FOOTNOTES : A-CHECK NOTES TO USER B-AMENDED TEST RESULT

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

PUENTE HILLS LANDFILL
ORDER NO. 91-035, ORDER NO. 93-062, & ORDER NO. 93070
FILE NO. 57-220
MONITORING AND REPORTING PROGRAM NO. 2294

1996EXCEL 5.0 FILE DIRECTORY

FILE	CONTENTS
961Q_T8.XLS	First Quarter 1996 Groundwater Monitoring Results
961Q_T9.XLS	First Quarter 1996 Groundwater Trip Blank Results
961Q_T10.XLS	First Quarter 1996 Surface Runoff Monitoring Results
961Q_T11.XLS	First Quarter 1996 Surface Runoff Trip Blank Results
961Q_T12.XLS	First Quarter 1996 Reused Water Sample Results
961Q_T13.XLS	First Quarter 1996 Reused Water Trip Blank Results
9604CCTB.XLS	April 1996 LCRS Sample and Trip Blank Results
962Q_T8.XLS	Second Quarter 1996 Groundwater Monitoring Results
962Q_T9.XLS	Second Quarter 1996 Groundwater Trip Blank Results
962Q_T10.XLS	Second Quarter 1996 Reused Water Sample Results
962Q_T11.XLS	Second Quarter 1996 Reused Water Trip Blank Results
963Q_T8.XLS	Third Quarter 1996 Groundwater Monitoring Results
963Q_T9.XLS	Third Quarter 1996 Groundwater Trip Blank Results
963Q_T10.XLS	Third Quarter 1996 Reused Water Sample Results
963Q_T11.XLS	Third Quarter 1996 Reused Water Trip Blank Results
963Q_T12.XLS	Third Quarter 1996 LCRS Sample Results
963Q_T13.XLS	Third Quarter 1996 LCRS Trip Blank Results
9610CCTB.XLS	October 1996 LCRS Sample and Trip Blank Results
964Q-T8.XLS	Fourth Quarter 1996 Groundwater Monitoring Results
964Q-T9.XLS	Fourth Quarter 1996 Groundwater Trip Blank Results
964Q-T10.XLS	Fourth Quarter 1996 Surface Runoff Sample Results
964Q-T11.XLS	Fourth Quarter 1996 Surface Runoff Trip Blank Results
964Q-T12.XLS	Fourth Quarter 1996 Reused Water Sample Results
964Q-T13.XLS	Fourth Quarter 1996 Reused Water Trip Blank Results
964Q-T14.XLS	Fourth Quarter 1996 LCRS Sample Results
964Q-T15.XLS	Fourth Quarter 1996 LCRS Trip Blank Results