

**ASSESSMENT OF STORM DRAIN SOURCES
OF CONTAMINANTS TO SANTA MONICA BAY**

VOLUME I

**ANNUAL POLLUTANTS LOADINGS
TO SANTA MONICA BAY FROM STORMWATER RUNOFF**

by

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PREFACE AND ACKNOWLEDGMENTS

This report represents Volume I from a series of four volumes of reports which form the basis of a pollution assessment and monitoring plan for Santa Monica Bay. Volume I describes storm drainage system land use statistics, catchment areas, existing water quality monitoring data, rainfall data, NPDES permit information for existing permits to storm drains, and contaminant mass emission estimates, based upon land use modeling. Volume II reviews sampling techniques, including sampling equipment, and other aspects associated with sampling such as a quality assurance plan. Volume III presents the proposed monitoring plan. Volume IV addresses best management practices as they apply to the Santa Monica Bay area. The first draft of this volume was issued in February, 1992.

The contract was performed by UCLA and Woodward-Clyde Consultants (WCC). Professor Michael K. Stenstrom of the Civil and Environmental Engineering Department, UCLA and Eric Strecker from WCC's Portland office were the project managers. There were several key individuals from both UCLA and WCC who assisted with the project; they include Sim-Lin Lau and Kenneth Wong (UCLA) and Lou Armstrong, Gail Boyd, Carol Forrest, and Joan Kersnar (WCC).

The contractors are grateful for the assistance of many individuals. The Santa Monica Bay Project and LA Regional Water Quality Control Board staffs were most helpful. We extend our special thanks to Dr. Guang-yu Wang, Ms. Catherine Tyrrell, Dr. Rainer Hoeinke and Mr. Xavier Swamikannu. Several public agencies were very helpful in providing data and information to us. The Los Angeles County Department of Public Works and the Southern California Association of Governments (SCAG) provided catchment area and land use data, respectively. We are also indebted to the members of the Technical Advisory Committee of the Santa Monica Bay Project and others who reviewed and commented on our draft reports.

This report describes the collection of data and land use information to estimate pollutant loads to Santa Monica Bay from stormwater runoff. A pollutant load is calculated by multiplying the flow rate or discharge of water by a pollutant concentration. The type of land use influences the pollutant load by either increasing or decreasing the fraction of impervious surface area (the higher the impervious area, the larger the runoff). The quality of stormwater runoff may also vary by land use. Therefore, pollution loading from a particular watershed can be formulated as a function of the areas of each of the various land use types that form it. Given this, a simple pollutant load model can be developed such that the sum of the products of the runoff from each land use type times the concentrations associated with each land use type equals the total load. The generic equation is of the form:

$$\sum M_a X_a = Y$$

where:

X_a is the estimated runoff generated from land use "a"

M_a is the estimated concentration for land use "a"

Y is the calculated total load

$\sum$ is the summation over all land uses

To estimate the pollutant loadings of stormwater runoff from the Santa Monica Bay catchments, a form of the above equation was used. The methodology is similar to the methodology developed under the EPA's Nationwide Urban Runoff Program (NURP, EPA 1983), and was adapted to a simple spreadsheet model. This model uses available local data for rainfall, land use, and drainage area characteristics. It differs from the NURP methodology in that it uses different land use specific runoff pollutant concentrations for different land use types, where NURP used the same pollutant concentrations for all land use types.

The following steps are used in computing the annual pollutant loadings and concentrations:

- Organize rainfall data into storm events. The storm events data are then analyzed to estimate average storm volume, storm intensity, storm duration, time between storms, and number of storms per year. Spatial variability in rainfall between catchments is accounted for by calculating a rainfall correction factor to scale the storm statistics to from a single rain gage to all the catchment. Data from small rainfall events not expected to produce runoff (less than 0.1 inches) are eliminated.
- Determine land use characteristics. The drainage basins are divided into a series of catchments and the land use acreage is tabulated for each catchment. This was accomplished by use of a GIS system, where land use areas were calculated within the delineated catchments. For each land use type, the percentage of impervious area is used to estimate the runoff coefficient, the ratio of runoff to rainfall.

- Determine average storm and annual runoff. Total volumes and flow rates for each catchment are estimated by combining rainfall statistics, rainfall correction factors, runoff coefficients, and drainage area.
- Determine the pollutant concentration associated with each land use. The data collected by NURP were compared to local data by comparing the frequency distributions for both data sets. It was found that the 90th percentile concentration data from NURP (i.e. concentrations that were 90% higher than the rest) were approximately equivalent to the median concentrations (50% higher than the rest) collected in the Santa Monica Bay area.
- Multiply the runoff volumes by concentration. Concentrations of water quality parameters typically found in urban runoff, obtained from the NURP database, are multiplied by the runoff volumes to yield average annual pollutant loads for each land use area in each catchment.
- Calculate total loads. Total loads for each catchment are calculated by summing the loads for each of the land uses. The average concentration for each catchment is then estimated by dividing the total load for the catchment by the total runoff from the catchment.

The above methodology indicates that significant pollutant loads are coming from residential areas. This does not mean that residential areas are necessarily more polluted than other areas, but instead that, given the large amount of residential area in the Santa Monica Bay area, it contributes the most runoff. It does however suggest that cleaning up the residential areas a small amount will have the same affect in reducing loads as cleaning up a dirty industrial area a lot.

This report (Volume I) provides the information basis for the development of Volume III (monitoring plan development) and Volume IV (best management practices) of this project.

TABLE OF CONTENTS

	<u>Page</u>
PREFACE AND ACKNOWLEDGMENTS	i
ABSTRACT	ii
TABLE OF CONTENTS	iv
LIST OF TABLES	v
LIST OF FIGURES	vi
1.0 INTRODUCTION	1
2.0 METHODOLOGY	3
2.1 RAINFALL STATISTICS	3
2.2 LAND USE CHARACTERISTICS	16
2.3 RAINFALL VOLUME	23
2.4 WATER QUALITY PARAMETERS	29
2.5 LOCAL DATA COLLECTION	32
3.0 RESULTS	43
3.1 SUMMARY BY LAND USE	43
3.2 SUMMARY BY DRAINAGE BASIN	51
3.3 SOURCES BY UNCERTAINTY	51
4.0 COMPARISONS TO POINT SOURCES	59
5.0 CONCLUSIONS AND RECOMMENDATIONS	64
6.0 REFERENCES	65
7.0 ABBREVIATIONS AND SYMBOLS	67
8.0 APPENDIX A	68
9.0 APPENDIX B	209
9.1 DATA COLLECTION	209
9.2 DATA DESCRIPTION	209
9.2.1 Santa Monica Bay Urban Runoff Database (SMBURD) Program Installation	217
9.3 RESULTS AND DATA ANALYSIS	218
9.3.1 Wet and Dry Data Analysis	218
9.3.2 Sample Histograms	218

LIST OF TABLES

	<u>Page</u>
Table 1	Rain Gages Near Santa Monica Bay Watershed 4
Table 2	Seasonal Rainfall for Los Angeles Airport (Station 5114) 6
Table 3	Wet Season Rainfall 8
Table 4	Wet Season Storm Statistics 11
Table 5	Land Uses and Hydrology for Santa Monica Bay Drainage Basins 17
Table 6	Land Use Breakdown by Drainage Basin 22
Table 7	Land Use Characteristics 24
Table 8	Land Use and Hydrology for Santa Monica Bay Watershed 25
Table 9	Streamflow Gages in Santa Monica Bay Watershed 26
Table 10	Seasonal Streamflow 27
Table 11	Streamflow and Storm Runoff Comparison 28
Table 12	Sources of Data 33
Table 13	Sampling Locations 34
Table 14	Storet Code Descriptions 35
Table 15	General Description of the Completed Data Set 36
Table 16	Parameter Statistics for Selected Locations (wet weather conditions) 38
Table 17	Water Quality Characteristics 41
Table 18	Annual Pollutant Loadings of Santa Monica Bay Drainage Basins by Land Use 44
Table 19	Annual Pollutant Loadings of Santa Monica Bay Watershed by Land Use 49
Table 20	Land Use Pollutant Loading Ranking 50
Table 21	Annual Pollutant Loadings from Santa Monica Bay Watershed 52
Table 22	Distribution of Pollutant Loadings from Santa Monica Bay Watershed 53
Table 23	Average Pollutant Concentrations from Santa Monica Bay Watershed 54
Table 24	Drainage Basin Ranking by Pollutant Loadings 55
Table 25	Drainage Basin Ranking by Pollutant Concentrations 56
Table 26	Comparison of Model with the State of the Bay Report 57
Table 27	Summary of NPDES Permits to Stormwater Drains 60
Table A-1	Land Uses and Hydrology for Santa Monica Bay Catchments 69
Table A-2	Annual Pollutant Loadings from Santa Monica Bay Catchments 139
Table B-1	Status of Individual Data Sets 210
Table B-2	47 Sampling Locations in Santa Monica Bay Watershed 211
Table B-3	General Description of the Completed Data Set A 212
Table B-4	22 STORET Parameters in Data Set B 214
Table B-5	Output Sample Format of SMBURD ver 1.01 216
Table B-6	Statistical Analysis of Wet Weather Data 219
Table B-7	Statistical Analysis of Dry Weather Data 222

LIST OF FIGURES

	<u>Page</u>
Figure 1 Rainfall Stations Location Map (1988-89)	5
Figure 2 Average Monthly Rainfall at Los Angeles Airport (Station 5114)	7
Figure 3 Wet Season Rainfall at Los Angeles Airport (Station 5114)	9
Figure 4 1988-89 Seasonal Total Isohyetal Map	12
Figure 5 Isohyetal Map of the 50-year, 24-hour Rainfall Event	13
Figure 6 Santa Monica Bay Isohyetal Map	14
Figure 7 Rainfall Correction Factor for Santa Monica Bay Catchment	15
Figure 8 Plots of Pollutant Concentrations	39
Figure B-1 Overview of SMB Runoff Program	215
Figure B-2 Histogram Plot for STORET Code = 1027	223
Figure B-3 Histogram Plot for STORET Code = 1042	223
Figure B-4 Histogram Plot for STORET Code = 1051	224
Figure B-5 Histogram Plot for STORET Code = 1092	224
Figure B-6 Histogram Plot for STORET Code = 310	225
Figure B-7 Histogram Plot for STORET Code = 340	225
Figure B-8 Histogram Plot for STORET Code = 403	226
Figure B-9 Histogram Plot for STORET Code = 515	226
Figure B-10 Histogram Plot for STORET Code = 550	227
Figure B-11 Histogram Plot for STORET Code = 608	227
Figure B-12 Histogram Plot for STORET Code = 615	228
Figure B-13 Histogram Plot for STORET Code = 620	228
Figure B-14 Histogram Plot for STORET Code = 650	229
Figure B-15 Histogram Plot for STORET Code = 680	229
Figure B-16 Histogram Plot for STORET Code = 95	230
Figure B-17 Histogram Plot for STORET Code = 31505	230
Figure B-18 Histogram Plot for STORET Code = 530	231
Figure B-19 Histogram Plot for STORET Code = 31615	231
Figure B-20 Histogram Plot for STORET Code = 610	232
Figure B-21 Histogram Plot for STORET Code = 31616	232
Figure B-22 Histogram Plot for STORET Code = 70507	233
Figure B-23 Histogram Plot for STORET Code = 31673	233

Annual pollutant loadings are influenced by the spatial and temporal rainfall pattern, the total area of the drainage basin, and the distribution of different land use types in the drainage basin. The type of land use influences the total volume of runoff by either increasing or decreasing the fraction of impervious surface area (the higher the impervious area, the larger the runoff) and, as a result, the pollutant loads.

A number of studies have been conducted to investigate the concentration and loadings of a variety of pollutants in stormwater runoff. Urban runoff pollutant concentrations and loadings were studied in depth by the US Environmental Protection Agency's (US EPA) Nationwide Urban Runoff Program (NURP). WCC directed and completed a number of studies for the EPA under this program. The NURP program included the coordination of urban runoff pollutant studies at 85 urban sites across the United States, which included monitoring of over 2,000 storm events. In addition to the site-specific reports produced during this study, EPA published the Final Report of the Nationwide Urban Runoff Program (US EPA, 1983). The report summarized the findings of the research and presented a methodology for predicting pollutant loads from urban watersheds using a statistical approach. Other related studies conducted for US EPA include the analysis of detention basins for control of urban stormwater runoff quality (US EPA, 1986) and the development of a probabilistic, statistical methodology for predicting pollutant loadings and concentrations from stormwater runoff and their impacts on rivers and streams (US EPA, 1984). The oil and grease information used in this report is based heavily upon the work by Stenstrom et al. (1984) and Fam et al. (1987).

The Federal Highway Administration (FHWA) study analyzed the characteristics of pollutant loadings and concentrations found in highway runoff. This study involved the analysis of highway data collected from 31 highway sites throughout the United States and included approximately 1,000 storm events (Driscoll et al., 1990). As part of the study, a methodology for predicting pollutant loads and concentration from highways and street surfaces was developed (FHWA, 1987).

A small pollutant load study was presented in the State of the Bay report (SCAG, 1988). This study evaluated at loads from Ballona Creek, Malibu Creek, and the Pico-Kenter storm drain. The study calculated loads by using flow data and pollutant concentrations from 1983-84. The analysis is limited since only two years of flow data were used; furthermore, one year was very wet and the other year was dry. An addition limitation is the use of averaged dry and wet weather concentration data. This would tend to under predict the concentrations of the pollutants studied because wet weather concentrations tend to be higher than dry weather concentrations for most contaminants.

The goal of this study is to estimate the annual loads to Santa Monica Bay, in such a way that they can be used to easily identify catchments with the largest expected contribution of each pollutant. The catchments can be prioritized based on pollutant loadings and/or concentrations, and this information can be useful to others who might wish to prioritize the catchments on the basis of the receiving water's ability to assimilate the discharge. Monitoring sites and types and locations of best management practices (BMPs) can be targeted at those catchments having the highest levels of pollutant concentrations and loadings and the greatest potential for improvement. In addition to aiding in the

development of a stormwater quality management program, estimates of the annual pollutant load of the cumulative discharges to waters of the United States are required for Part 2 of the National Pollution Elimination System (NPDES) Stormwater Permit Application for municipalities. A description of the procedures used to estimate pollutant loads must also accompany the permit application.

This brief report summarizes the methodology and results of pollutant loading calculations for the Santa Monica Bay watershed. The general methodology, land use characteristics, water quality parameters, and intermediate results used to calculate the pollutant loadings are presented in the next section. Data collected by the various monitoring agencies were brought together and placed into a single ASCII data set. Summaries of the annual pollutant loading calculations by land use type and by drainage basins are given in the third section. The last section contains conclusions and recommendations based on these results.

Two appendices are provided. Appendix A summarizes the land use and annual pollutant loadings by catchment. Appendix B describes the collected data and a program provided to help sort the data for specific locations and parameters. A summary of the average dry and wet weather contaminant concentrations for 22 selected locations is also included in the Appendix B.

To estimate the pollutant loadings of stormwater runoff from the Santa Monica Bay catchments, a modified version of the methodology developed under the US EPA's Nationwide Urban Runoff Program (US EPA, 1983) was adapted to a simple spreadsheet model. This model uses available local data for rainfall, land use, and drainage area characteristics. It differs from the NURP methodology in that it uses different land use specific runoff pollutant concentrations for different land use types, where NURP used the same pollutant concentrations for all land use types. The loadings for each of the catchments were calculated by multiplying the volume of runoff for each area with its associated land use concentrations. The loadings for each drainage basin were calculated by summing the results from contributing catchments.

2.1 RAINFALL STATISTICS

Average annual rainfall statistics were used to calculate the estimated pollutant loadings to the receiving waters for an "average" year. The amount of rainfall that the watershed receives annually, however, is quite variable from year to year. Hence, the pollutant loadings can vary appreciably from year to year.

In the Santa Monica Bay watershed, rainfall is measured at rain gage stations operated by the National Weather Service (NWS) and by local flood control and water supply districts including the Los Angeles County Department of Public Works (LACDPW). Table 1 lists those gages selected for detailed analyses in this study because of location, record completeness, and the availability of data in electronic format from the NWS. For each of these stations, the location (latitude and longitude), elevation, period of record, record completeness (in percent), and average annual rainfall are shown in the table. Figure 1 shows the location of gages in operation during 1988-89.

The rainfall record at the Los Angeles Airport (Station 5114) was analyzed to determine wet and dry seasons at Santa Monica Bay. The average monthly rainfall volumes and subtotals for each season are shown in Table 2, and the seasonal variation in rainfall is shown graphically in Figure 2. Based on average monthly rainfall volumes, the period from November through April is defined as the wet season and the remaining period is defined as the dry season for the study area. The wet season receives over 93 percent of the annual rainfall, as shown in Table 2. The analyses that follow focus on the wet season.

To illustrate the annual variation in rainfall, the wet season rainfall totals for selected gages are tabulated as shown in Table 3. The average wet season rainfall for the Los Angeles Airport gage is 10.72 inches with a standard deviation of 5.42 inches. Figure 3 shows the time series plot of the wet season rainfall for this gage. The horizontal lines in the figure represent the record average and one standard deviation above and below the average. Annual variations that have occurred at the other stations are similar.

To compute average runoff volumes at the site, data on rainfall duration, intensity, volume, and time between storms are required. Detailed analysis of the rainfall record of hourly data is performed using a statistical analysis program developed for the US EPA (US EPA,

Table 1. Rain Gages Near Santa Monica Bay Watershed

Station Name	NWS I.D. Number	LACDPW I.D. Number	Latitude	Longitude	Elevation (feet)	Period of Record	Percent Complete	Average Annual Rainfall (inches)
Bel Air Hotel	619	10A	34°05'11"	118°26'45"	540	1948-84	91	16.7
Birmingham General Hospital	818	---	34°11'--"	118°30'--"	---	1948-77	92	13.93
Burbank Valley Pumping Plant	1194	749B	34°11'11"	118°20'54"	655	1948-89	96	14.7
Chatsworth Reservoir	1682	23B	34°13'44"	118°37'18"	900	1948-89	91	14.19
Lechuza Patrol Station	4867	352B	34°04'38"	118°52'47"	1620	1948-89	93	20.97
Long Beach Airport	5085	662D	33°49'--"	118°09'--"	34	1968-89	86	14.22
Los Angeles Airport	5114	734C	33°56'25"	118°23'44"	105	1948-89	98	12.03
Los Angeles Civic Center	5115	716	34°03'09"	118°14'13"	306	1948-89	95	14.55
Sepulveda Dam	8092	465C	34°10'06"	118°28'11"	683	1948-89	91	14.13
Signal Hill	8230	415	33°47'49"	118°10'03"	140	1948-89	92	10.94

Sources: National Weather Service (NWS) and Los Angeles County Department of Public Works (LACDPW) rain gage record summaries.

Table 2. Seasonal Rainfall for Los Angeles Airport.
(Station 5114)

Month	Rainfall (inches)	Percent of Annual Total
Wet Season		
November	1.62	13.7
December	1.62	13.6
January	2.73	23.0
February	2.33	19.7
March	1.91	16.1
April	0.87	7.3
Wet Season Total	11.08	93.3
Dry Season		
May	0.14	1.2
June	0.03	0.2
July	0.01	0.1
August	0.11	1.0
September	0.21	1.8
October	0.28	2.4
Dry Season Total	0.79	6.7
Annual Total	11.88	100.0

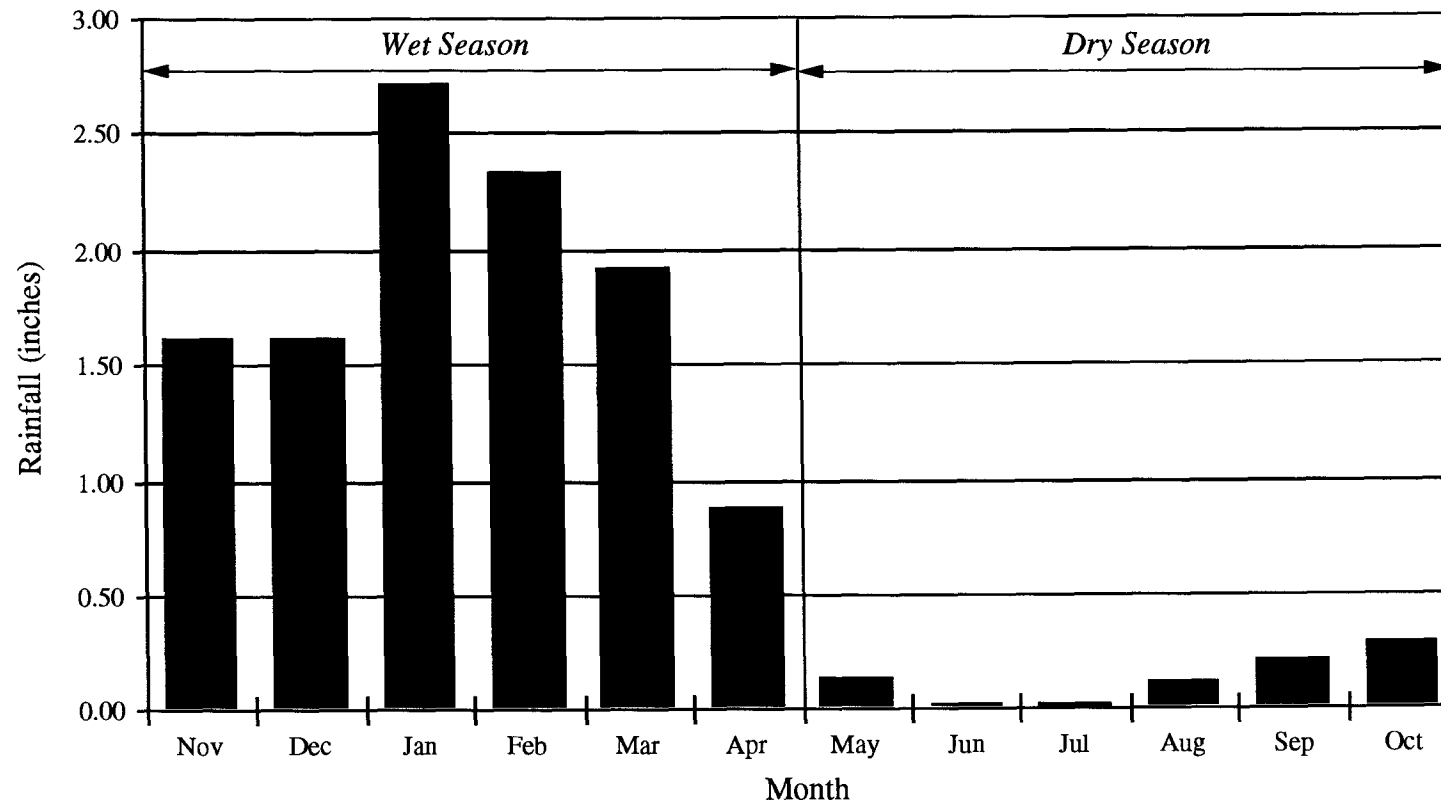


Figure 2. Average Monthly Rainfall at Los Angeles Airport.
(Station 5114)

Table 3. Wet Season Rainfall (a)
(All values in inches)

Water Year	Station 4867	Station 0619	Station 5115	Station 5114
1949	12.32	9.14	7.12	7.04
1950	18.40	13.58	9.50	8.95
1951	10.74	8.38	6.97	5.91
1952	10.54	21.25	25.14	18.42
1953	---	---	8.81	8.04
1954	20.33	17.49	11.54	11.70
1955	15.99	13.33	10.34	9.07
1956	10.26	17.96	15.12	12.66
1957	12.95	12.28	8.41	8.31
1958	25.08	25.20	19.11	16.81
1959	7.76	9.14	4.95	4.95
1960	13.59	10.69	7.74	8.74
1961	7.76	6.44	4.54	4.17
1962	30.30	26.47	18.49	17.48
1963	12.64	8.85	7.75	8.63
1964	8.96	7.33	6.40	5.18
1965	12.67	13.06	12.97	9.57
1966	26.41	18.97	17.99	12.06
1967	17.23	22.84	21.38	12.85
1968	14.98	15.61	15.11	13.58
1969	37.73	24.38	26.26	15.45
1970	15.14	9.38	7.39	5.28
1971	17.93	4.15	12.04	9.43
1972	10.30	8.43	6.94	5.95
1973	25.70	22.85	20.39	15.25
1974	20.80	---	14.33	10.50
1975	11.90	5.80 (b)	12.93	10.36
1976	6.30	4.90	6.52	3.36
1977	8.90	7.90	6.04	6.22
1978	41.00	42.70	30.63	25.74
1979	23.10	14.90	18.91	13.98
1980	32.00	10.40	25.53	20.05
1981	13.70	---	8.66	8.20
1982	11.40	---	9.78	12.44
1983	43.20	---	29.33	24.03
1984	10.40	---	6.62	6.38
1985	8.90	---	11.39	8.28
1986	27.60	---	16.97	17.85
1987	7.70	---	4.58	4.05
1988	14.70	---	8.62	6.40
1989	11.60	---	7.76	6.27
1949-1989 Statistics				
Number of Years with Data	40	29	41	41
Minimum (inches)	6.30	4.15	4.54	3.36
Maximum (inches)	43.20	42.70	30.63	25.74
Average (inches)	17.22	14.76	12.95	10.72
Standard Deviation (inches)	9.45	8.38	7.16	5.42
Coefficient of Variation	0.55	0.57	0.55	0.51

(a) For storms with more than 0.10 inches and inter-event time of 6 hours during November through April.

(b) Value not used in statistics due to missing data.

"---" indicates no data.

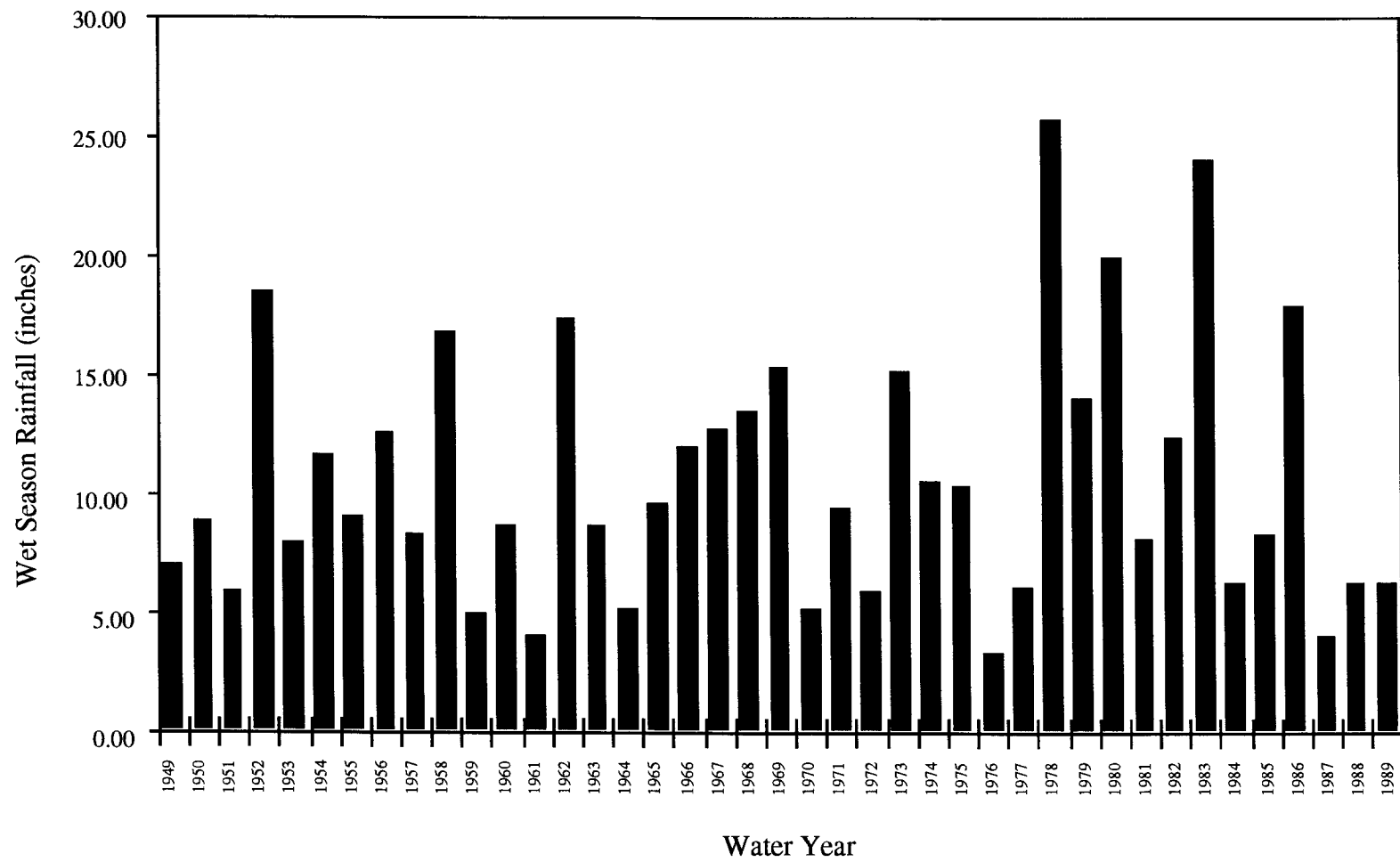


Figure 3. Wet Season Rainfall at Los Angeles Airport
(Station 5114)

1980) and updated by WCC for the US EPA and FHWA in 1989. The procedure used in the Synoptic Rainfall Analysis Program (called SYNOP) segregates the hourly rainfall record into discrete storm "events" by defining the number of consecutive dry hours that separate events (inter-event time). Then, for each "event," the total volume, duration, average intensity, and interval between storm event midpoints are computed. SYNOP performs a standard statistical analysis to compute the mean, standard deviation, and coefficient of variation for all of the event statistics.

Because only those rainfall events which produce runoff are of interest in this study, the minimum storm volume analyzed to produce average storm statistics is set at 0.10 inches. Therefore, all storm "events" with a volume of less than 0.10 inch are removed from the analyses based on evidence that these smaller events generally do not generate significant runoff volumes. A 6-hour inter-event time is also used to define the discrete storm "events". That is, hours of rainfall separated by 6 or more hours of dry weather are considered to be parts of separate events. These parameters have been used in other studies conducted by WCC in the Los Angeles area and in a national rainfall analysis prepared by WCC for US EPA (US EPA, 1989). All computations are conducted for the wet season, a 6-month period ending on April 30 of the indicated year. The entire period of record is used for each of the gages, excluding partial years associated with the starting and ending dates of the records.

The results of the analyses for all storms in the period of record for the selected Santa Monica Bay rain gages are summarized in Table 4. The statistics shown in this table include storm volume, intensity, duration, and time between storm events (delta) averaged over all storms used in the analyses. The coefficients of variation for each of the summary statistics are also shown. For the Santa Monica Bay watershed, the average wet season storm volume varies from 0.67 to 1.09 inches with an average intensity of 0.061 to 0.101 inches per hour and duration of 10.5 to 14.2 hours. The time between storms varies from 198 to 258 hours (or 8 to 11 days) during the wet season. Approximately 16 storm events occur on average during each wet season.

There is a strong spatial variation in rainfall due to topographic influence in the Los Angeles area, which leads to uneven rainfall amounts over basins in the Santa Monica Bay area. Isohyetal maps (maps with contour lines of equal rainfall amounts) provide a good tool for identifying these rainfall patterns. The LACDPW publishes isohyetal maps of annual rainfall totals in the study area in its annual hydrologic reports. The 1988-89 seasonal total isohyetal map is shown in Figure 4. An isohyetal map of the 50-year, 24-hour rainfall event is also available from LACDPW and is shown in Figure 5. Figure 6 shows an isohyetal map of average storm volumes developed from the storm event analyses and the patterns found in the above mentioned isohyetal maps.

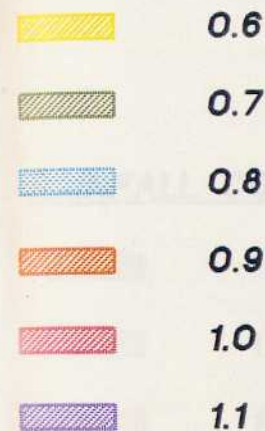
To assign rainfall characteristics to each catchment delineated for the Santa Monica Bay watershed, the statistics for one gage, the Los Angeles Airport gage, are used as the point-of-reference for all locations. Rainfall correction factors are used to scale the rainfall volumes for each catchment to reflect spatial variations within the watershed. The rainfall correction factor is essentially a modeling tool that allows a single reference gage to be used as input data. For each catchment rainfall volumes are calculated as the reference gage volume multiplied by the correction factor spatial variability in rainfall that occurs between catchments throughout the Bay drainage area. The rainfall correction factors for average storm volumes are computed using the Los Angeles Airport gage average storm volume of 0.68 inches as the basis. These factors are combined with the isohyetal map shown in Figure 6 to assign rainfall correction factors to each catchment. The results are shown in Figure 7. Average storm duration and number of storms per season do not vary as greatly as storm volumes and were assumed constant for all catchments.

Table 4. Wet Season Storm Statistics (a)

STATION	PERIOD OF ANALYSIS (water years)	STORM VOLUME (inches/storm)		STORM INTENSITY (inches/hour)		STORM DURATION (hours/storm)		TIME BETWEEN STORMS (hours)	
		Average	Coef of Var	Average	Coef of Var	Average	Coef of Var	Average	Coef of Var
0619	1948-1980	1.06	1.22	0.084	0.66	12.5	0.85	209	1.32
0818	1948-1976	0.98	1.22	0.068	0.74	14.2	0.92	258	1.25
1194	1948-1989	0.88	1.31	0.067	0.69	13.0	0.89	231	1.20
1682	1948-1989	0.88	1.27	0.063	0.69	14.0	0.91	230	1.22
4867	1948-1989	1.09	1.17	0.101	0.73	11.3	0.87	198	1.35
5085	1977-1989	0.67	1.05	0.061	0.79	11.3	0.71	221	1.10
5114	1948-1989	0.68	1.16	0.062	0.72	12.0	0.83	221	1.23
5115	1948-1989	0.81	1.18	0.067	0.69	12.8	0.87	221	1.21
8092	1948-1989	0.96	1.26	0.069	0.74	13.5	0.89	238	1.23
8230	1948-1989	0.69	1.07	0.074	0.73	10.5	0.88	219	1.36
Minimum		0.67		0.061		10.5		198	
Maximum		1.09		0.101		14.2		258	
Average		0.87		0.072		12.5		225	

(a) For storms having more than 0.10 inches of precipitation with a 6-hour inter-event time during November through April.

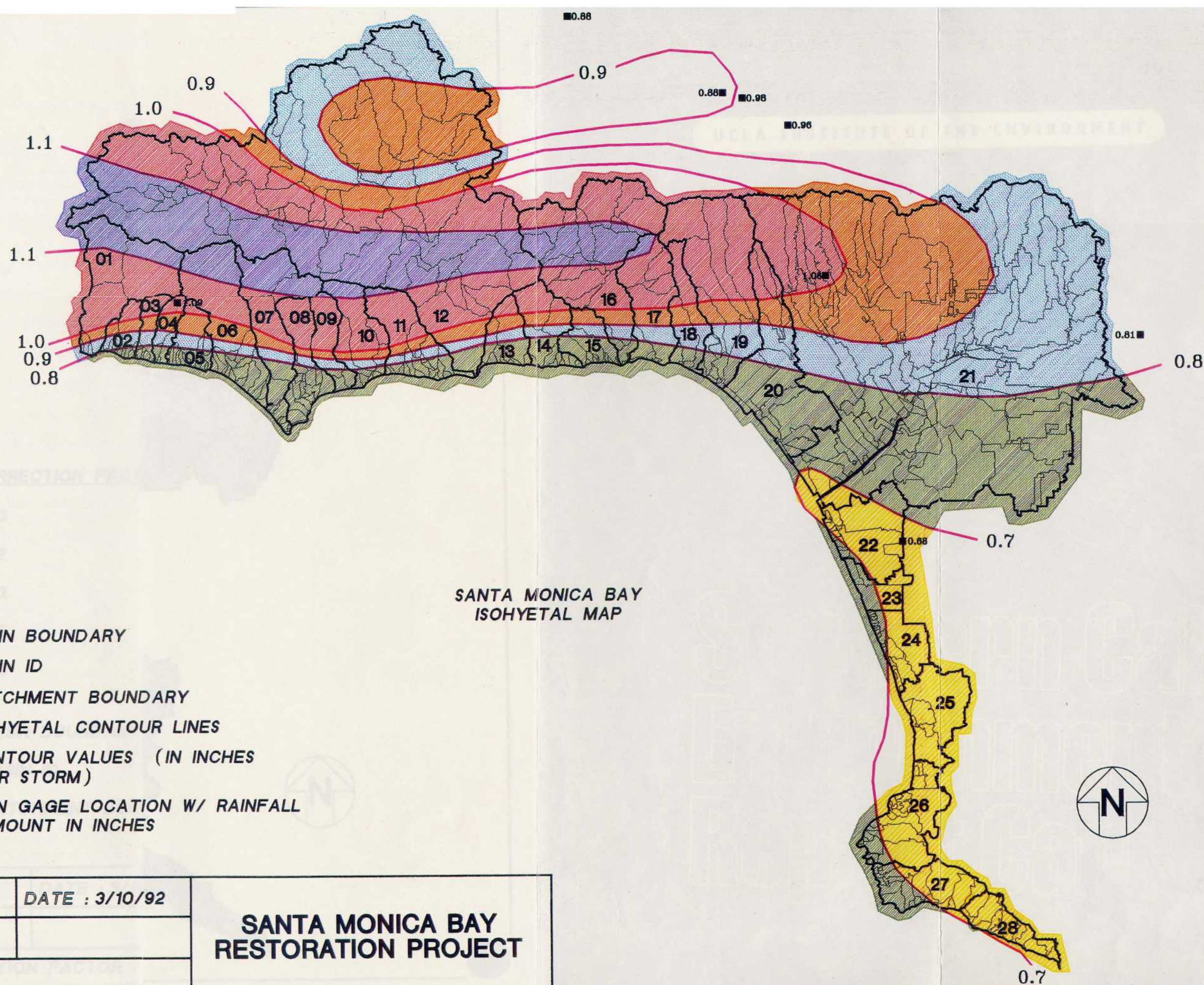
RAINFALL

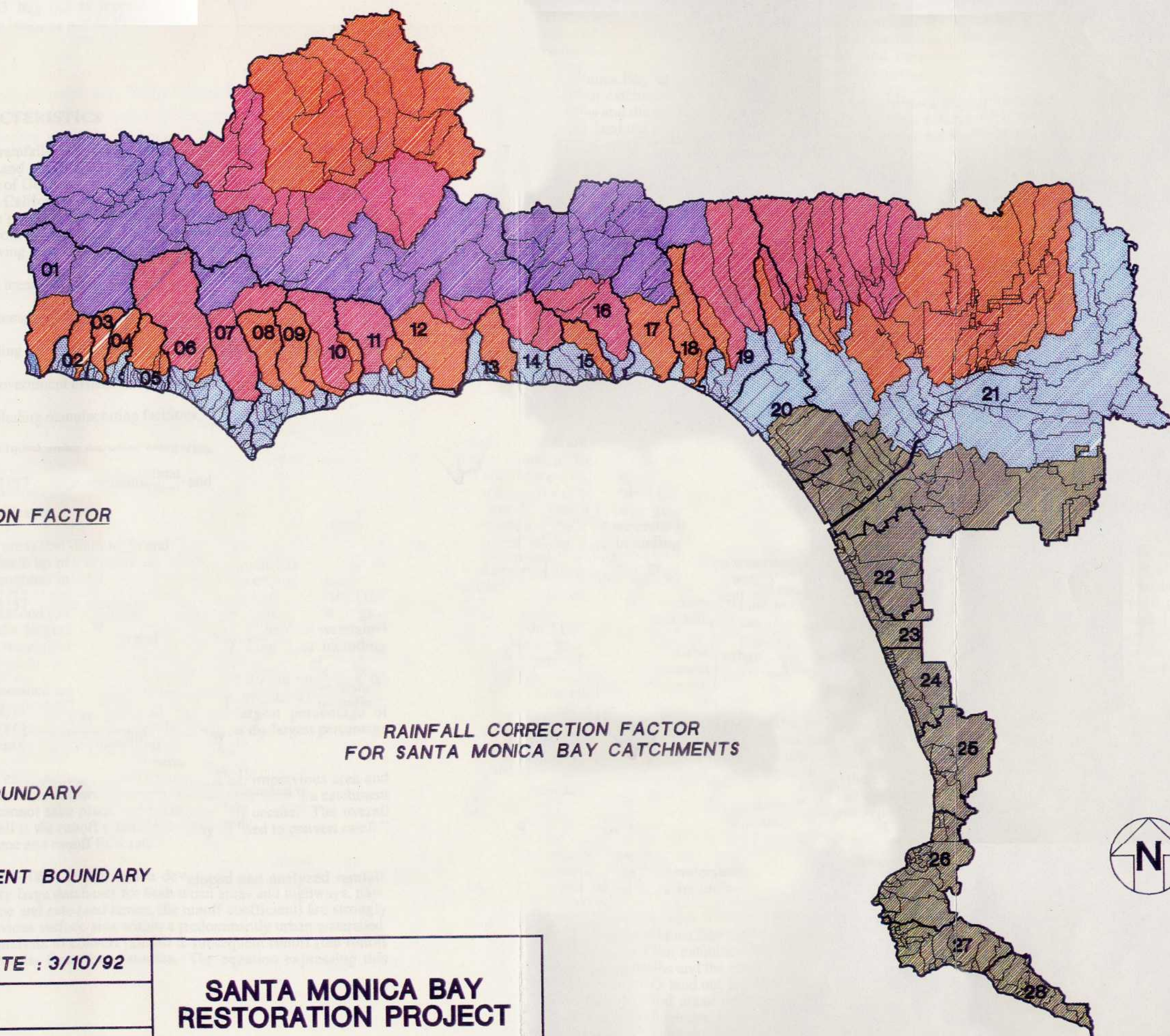


- BASIN BOUNDARY**
- BASIN ID**
- CATCHMENT BOUNDARY**
- ISOHYETAL CONTOUR LINES**
- CONTOUR VALUES (IN INCHES PER STORM)**
- RAIN GAGE LOCATION W/ RAINFALL AMOUNT IN INCHES**

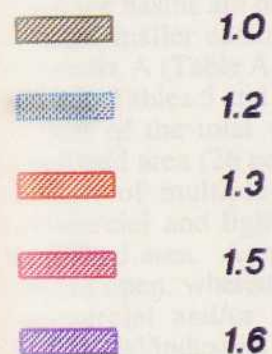
**SANTA MONICA BAY
ISOHYETAL MAP**

JOB NO. 9151040F	DATE : 3/10/92	SANTA MONICA BAY RESTORATION PROJECT
FIGURE NO. 6		
ISOHYETAL MAP		

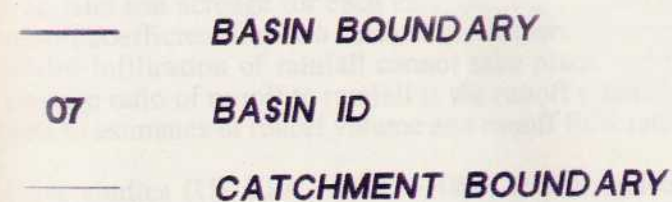




RAINFALL CORRECTION FACTOR



RAINFALL CORRECTION FACTOR FOR SANTA MONICA BAY CATCHMENTS



JOB NO. 9151040F	DATE : 3/10/92	SANTA MONICA BAY RESTORATION PROJECT
FIGURE NO. 7		
RAINFALL CORRECTION FACTOR		

2.2 LAND USE CHARACTERISTICS

Parameters used to compute the rainfall-runoff relationship and pollutant concentrations are based on land use categories. Land use data and acreage breakdown is available from the Southern California Association of Governments. The data were collected in 1987 by AIS under contract with Southern California Edison as part of a comprehensive coastal inventory. The land uses were photo interpreted then mapped. The complete data set covers approximately the area from Point Arguello to the United States/Mexico border and about 5 miles inland. The following categories are used:

- Single-family residential areas including duplexes and group quarters,
- Multi-family residential areas including mobile homes,
- Commercial areas including wholesale and retail trade and general services,
- Public lands including government offices and schools,
- Light industrial areas including manufacturing facilities,
- Other urban areas not included under the other categories,
- Open spaces including parks and undeveloped lands, and
- Unknown land use classification.

Drainage basins are defined as areas that drain to Santa Monica Bay and are made up of several smaller catchments. The land use acreage for each catchment are provided in Appendix A (Table A-1). Summaries for the drainage basins and the entire watershed are given in Tables 5 and 6. Open space represents the primary land use in the watershed (57 percent of the total watershed). Single-family residential areas represent the largest developed area (26 percent of the total watershed). Seven percent of the total watershed consists of multiple-family residential land use. Other urban land uses including commercial and light industrial uses constitute the remaining 10 percent of the total watershed area. As shown in Table 6, drainage basins 1 through 19 are more than 65 percent open, whereas drainage basins 18 through 28 are mostly urbanized (residential, commercial and/or industrial). Drainage basin 23 has the largest percentage of commercial/industrial land use (81 percent) and drainage basin 24 has the largest percentage of residential land use (85 percent).

The land use acreage for each catchment are used to determine the impervious area and runoff coefficient for each catchment. Impervious areas are those portions of a catchment where infiltration of rainfall cannot take place and surface runoff occurs. The overall average ratio of runoff to rainfall is the runoff coefficient which is used to convert rainfall data to estimates of runoff volume and runoff flow rate.

Prior studies (US EPA, 1983; FHWA, 1987), which developed and analyzed rainfall-runoff characteristics using very large databases for both urban areas and highways, have indicated that the runoff volume and rate (and hence, the runoff coefficient) are strongly related to the fraction of impervious surface area within a predominantly urban watershed. The relationship used in this analysis to convert rainfall to subsequent runoff (the runoff coefficient) is based on the results from those studies. The equation expressing this relationship is (FHWA, 1987):

Table 5. Land Uses and Hydrology for Santa Monica Bay Drainage Basins.

DRAINAGE BASIN	LAND USE	LAND USE PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERVIOUS	RUNOFF COEFFICIENT Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVERAGE ANNUAL VOLUME (CU FT)	AVG. ANN. STORM RUNOFF (AF/YR)
Basin 01	Single-family	0	0	42	0.39		0.0	0	0	0
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	100	7,202	0	0.10		67.4	2,682,000	42,912,000	985
	Unknown	0	1	65	0.56		0.0	0	0	0
	Basin Total	100	7,203	0	0.10		67.4	2,682,000	42,912,000	985
Basin 02	Single-family	3	46	42	0.39		1.4	54,000	864,000	20
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	2	21	80	0.66		1.1	43,000	688,000	16
	Open	95	1,360	0	0.10		10.6	424,000	6,784,000	156
	Unknown	0	1	65	0.56		0.0	1,000	16,000	0
	Basin Total	100	1,428	3	0.12		13.1	522,000	8,352,000	192
Basin 03	Single-family	5	58	42	0.39		1.7	68,000	1,088,000	25
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	1	8	80	0.66		0.4	15,000	240,000	6
	Open	94	1,043	0	0.10		8.3	331,000	5,296,000	122
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	1,108	3	0.12		10.4	414,000	6,624,000	153
Basin 04	Single-family	4	46	42	0.39		1.3	52,000	832,000	19
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	96	1,132	0	0.10		8.9	355,000	5,680,000	130
	Unknown	0	0	65	0.56		0.0	1,000	16,000	0
	Basin Total	100	1,178	2	0.11		10.3	408,000	6,528,000	149
Basin 05	Single-family	7	132	42	0.39		3.8	151,000	2,416,000	55
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	93	1,882	0	0.10		14.8	591,000	9,456,000	217
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	2,014	3	0.12		18.6	742,000	11,872,000	272
Basin 06	Single-family	10	669	42	0.39		19.7	786,000	12,576,000	289
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	1	82	80	0.66		4.6	182,000	2,912,000	67
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	89	6,098	0	0.10		54.3	2,163,000	34,608,000	794
	Unknown	0	14	65	0.56		0.6	22,000	352,000	8
	Basin Total	100	6,862	5	0.14		79.2	3,153,000	50,448,000	1,158

Table 5. Land Uses and Hydrology for Santa Monica Bay Drainage Basins (cont'd).

DRAINAGE BASIN	LAND USE	LAND USE PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERVIOUS	RUNOFF COEFFICIENT Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVERAGE ANNUAL VOLUME (CU FT)	AVG. ANN. STORM RUNOFF (AF/YR)
Basin 07	Single-family	8	477	42	0.39		14.4	572,000	9,152,000	210
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	1	44	92	0.74		3.1	123,000	1,968,000	45
	Public	2	124	80	0.66		8.1	324,000	5,184,000	119
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	89	5,437	0	0.10		50.8	2,025,000	32,400,000	744
	Unknown	0	18	65	0.56		0.8	29,000	464,000	11
Basin Total		100	6,101	6	0.14		77.2	3,073,000	49,168,000	1,129
Basin 08	Single-family	23	763	42	0.39		22.2	883,000	14,128,000	324
	Multi-family	0	13	68	0.58		0.6	22,000	352,000	8
	Commercial	0	6	92	0.74		0.3	14,000	224,000	5
	Public	0	7	80	0.66		0.4	15,000	240,000	6
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	77	2,596	0	0.10		20.3	810,000	12,960,000	298
	Unknown	0	1	65	0.56		0.1	2,000	32,000	1
Basin Total		100	3,387	10	0.17		43.8	1,746,000	27,936,000	642
Basin 09	Single-family	9	190	42	0.39		5.6	223,000	3,568,000	82
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	91	2,039	0	0.10		16.3	649,000	10,384,000	238
	Unknown	0	1	65	0.56		0.0	2,000	32,000	1
Basin Total		100	2,229	4	0.12		22.0	874,000	13,984,000	321
Basin 10	Single-family	3	102	42	0.39		3.1	124,000	1,984,000	46
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	97	3,664	0	0.10		32.2	1,280,000	20,480,000	470
	Unknown	0	3	65	0.56		0.1	5,000	80,000	2
Basin Total		100	3,770	1	0.11		35.4	1,409,000	22,544,000	518
Basin 11	Single-family	6	239	42	0.39		7.3	289,000	4,624,000	106
	Multi-family	0	2	68	0.58		0.1	3,000	48,000	1
	Commercial	1	24	92	0.74		1.3	53,000	848,000	19
	Public	5	206	80	0.66		10.4	414,000	6,624,000	152
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	89	3,816	0	0.10		32.6	1,299,000	20,784,000	477
	Unknown	0	0	65	0.56		0.0	0	0	0
Basin Total		100	4,288	7	0.15		51.6	2,058,000	32,928,000	755
Basin 12	Single-family	8	5,694	42	0.39		196.6	7,829,000	125,264,000	2,876
	Multi-family	1	353	68	0.58		18.0	716,000	11,456,000	263
	Commercial	1	430	92	0.74		27.6	1,098,000	17,568,000	403
	Public	0	346	80	0.66		19.9	792,000	12,672,000	291
	Light Industrial	1	414	91	0.74		27.8	1,106,000	17,696,000	406
	Other Urban	2	1,184	80	0.66		69.5	2,768,000	44,288,000	1,017
	Open	88	61,871	0	0.10		568.1	22,620,000	361,920,000	8,309
	Unknown	0	0	65	0.56		0.0	0	0	0
Basin Total		100	70,292	7	0.15		927.4	36,929,000	590,864,000	13,565

Table 5. Land Uses and Hydrology for Santa Monica Bay Drainage Basins (cont'd).

DRAINAGE BASIN	LAND USE	LAND USE PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERVIOUS	RUNOFF COEFFICIENT Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVERAGE ANNUAL VOLUME (CU FT)	AVG. ANN. STORM RUNOFF (AF/YR)
Basin 13	Single-family	16	353	42	0.39		10.5	416,000	6,656,000	153
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	84	1,893	0	0.10		14.9	593,000	9,488,000	218
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	2,246	7	0.15		25.4	1,009,000	16,144,000	371
Basin 14	Single-family	15	488	42	0.39		14.7	586,000	9,376,000	215
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	1	20	80	0.66		1.2	48,000	768,000	18
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	84	2,649	0	0.10		23.1	921,000	14,736,000	338
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	3,157	7	0.15		39.0	1,555,000	24,880,000	571
Basin 15	Single-family	3	67	42	0.39		2.0	79,000	1,264,000	29
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	97	1,987	0	0.10		15.3	611,000	9,776,000	224
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	2,054	1	0.11		17.3	690,000	11,040,000	253
Basin 16	Single-family	12	1,457	42	0.39		54.0	2,152,000	34,432,000	790
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	0	92	0.74		0.0	0	0	0
	Public	0	0	80	0.66		0.0	0	0	0
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	88	11,149	0	0.10		108.0	4,303,000	68,848,000	1,581
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	12,606	5	0.13		162.1	6,455,000	103,280,000	2,371
Basin 17	Single-family	13	663	42	0.39		20.5	817,000	13,072,000	300
	Multi-family	1	62	68	0.58		3.0	119,000	1,904,000	44
	Commercial	0	15	92	0.74		0.9	35,000	560,000	13
	Public	1	52	80	0.66		2.7	106,000	1,696,000	39
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	3	149	80	0.66		8.0	317,000	5,072,000	116
	Open	81	4,017	0	0.10		36.3	1,446,000	23,136,000	531
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	4,959	10	0.17		71.3	2,840,000	45,440,000	1,043
Basin 18	Single-family	33	922	42	0.39		28.6	1,140,000	18,240,000	419
	Multi-family	0	0	68	0.58		0.0	0	0	0
	Commercial	0	4	92	0.74		0.3	11,000	176,000	4
	Public	1	35	80	0.66		1.8	74,000	1,184,000	27
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	1	26	80	0.66		1.4	54,000	864,000	20
	Open	65	1,836	0	0.10		14.7	587,000	9,392,000	216
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	2,823	16	0.21		46.8	1,866,000	29,856,000	686

Table 5. Land Uses and Hydrology for Santa Monica Bay Drainage Basins (cont'd).

DRAINAGE BASIN	LAND USE	LAND USE PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERVIOUS	RUNOFF COEFFICIENT Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVERAGE ANNUAL VOLUME (CU FT)	AVG. ANN. STORM RUNOFF (AF/YR)
Basin 19	Single-family	24	2,516	42	0.39		79.3	3,157,000	50,512,000	1,160
	Multi-family	0	35	68	0.58		1.5	60,000	960,000	22
	Commercial	1	63	92	0.74		3.5	138,000	2,208,000	51
	Public	0	32	80	0.66		1.6	63,000	1,008,000	23
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	0	52	80	0.66		2.8	112,000	1,792,000	41
	Open	74	7,837	0	0.10		72.5	2,888,000	46,208,000	1,061
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	10,535	11	0.18		161.2	6,418,000	102,688,000	2,358
Basin 20	Single-family	48	4,282	42	0.39		118.5	4,719,000	75,504,000	1,733
	Multi-family	21	1,908	68	0.58		76.3	3,036,000	48,576,000	1,115
	Commercial	6	540	92	0.74		29.2	1,163,000	18,608,000	427
	Public	3	234	80	0.66		10.5	418,000	6,688,000	154
	Light Industrial	0	25	91	0.74		1.2	46,000	736,000	17
	Other Urban	2	215	80	0.66		9.1	362,000	5,792,000	133
	Open	19	1,731	0	0.10		13.6	542,000	8,672,000	199
	Unknown	0	1	65	0.56		0.0	2,000	32,000	1
	Basin Total	100	8,937	44	0.41		258.3	10,288,000	164,608,000	3,779
Basin 21 first-half	Single-family	48	32,573	42	0.39		951.9	37,894,000	606,304,000	13,919
	Multi-family	19	12,696	68	0.58		558.4	22,225,000	355,600,000	8,163
	Commercial	9	5,804	92	0.74		323.6	12,881,000	206,096,000	4,731
	Public	3	2,002	80	0.66		95.5	3,804,000	60,864,000	1,397
	Light Industrial	4	2,986	91	0.74		159.5	6,347,000	101,552,000	2,331
	Other Urban	4	2,492	80	0.66		110.6	4,400,000	70,400,000	1,616
	Open	14	9,196	0	0.10		74.6	2,967,000	47,472,000	1,090
	Unknown	1	356	65	0.56		14.0	557,000	8,912,000	205
	Basin Total	100	68,105	50	0.45		2,288.0	91,075,000	1,457,200,000	33,452
Basin 21	Single-family	46	38,049	42	0.39		1,120.3	44,602,000	713,632,000	16,383
	Multi-family	18	14,996	68	0.58		659.6	26,253,000	420,048,000	9,643
	Commercial	8	6,664	92	0.74		373.0	14,851,000	237,616,000	5,455
	Public	4	3,048	80	0.66		149.9	5,966,000	95,456,000	2,191
	Light Industrial	4	3,371	91	0.74		181.5	7,222,000	115,552,000	2,653
	Other Urban	4	2,929	80	0.66		135.3	5,381,000	86,096,000	1,976
	Open	17	13,874	0	0.10		115.6	4,602,000	73,632,000	1,690
	Unknown	0	356	65	0.56		14.0	557,000	8,912,000	205
	Basin Total	100	83,287	48	0.44		2,749.2	109,434,000	1,750,944,000	40,196
Basin 22	Single-family	31	1,582	42	0.39		38.3	1,523,000	24,368,000	559
	Multi-family	3	133	68	0.58		4.8	190,000	3,040,000	70
	Commercial	3	136	92	0.74		6.2	247,000	3,952,000	91
	Public	4	179	80	0.66		7.3	292,000	4,672,000	107
	Light Industrial	1	26	91	0.74		1.2	48,000	768,000	18
	Other Urban	42	2,133	80	0.66		87.3	3,476,000	55,616,000	1,277
	Open	17	847	0	0.10		5.3	210,000	3,360,000	77
	Unknown	0	1	65	0.56		0.0	0	0	0
	Basin Total	100	5,036	55	0.48		150.3	5,986,000	95,776,000	2,199
Basin 23	Single-family	11	182	42	0.39		4.4	177,000	2,832,000	65
	Multi-family	1	22	68	0.58		0.8	31,000	496,000	11
	Commercial	2	36	92	0.74		1.6	65,000	1,040,000	24
	Public	1	10	80	0.66		0.4	16,000	256,000	6
	Light Industrial	7	113	91	0.74		5.2	207,000	3,312,000	76
	Other Urban	72	1,178	80	0.66		48.2	1,919,000	30,704,000	705
	Open	6	103	0	0.10		0.6	26,000	416,000	10
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	1,644	72	0.60		61.3	2,441,000	39,056,000	897

Table 5. Land Uses and Hydrology for Santa Monica Bay Drainage Basins (cont'd).

DRAINAGE BASIN	LAND USE	LAND USE PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERVIOUS	RUNOFF COEFFICIENT Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVERAGE ANNUAL VOLUME (CU FT)	AVG. ANN. STORM RUNOFF (AF/YR)
Basin 24	Single-family	79	2,164	42	0.39		52.3	2,084,000	33,344,000	765
	Multi-family	5	149	68	0.58		5.4	214,000	3,424,000	79
	Commercial	6	161	92	0.74		7.4	294,000	4,704,000	108
	Public	6	165	80	0.66		6.8	269,000	4,304,000	99
	Light Industrial	0	0	91	0.74		0.0	1,000	16,000	0
	Other Urban	0	11	80	0.66		0.4	18,000	288,000	7
	Open	3	76	0	0.10		0.5	15,000	240,000	6
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	2,727	48	0.43		72.8	2,895,000	46,320,000	1,064
Basin 25	Single-family	67	2,902	42	0.39		70.2	2,794,000	44,704,000	1,026
	Multi-family	11	491	68	0.58		17.7	703,000	11,248,000	258
	Commercial	5	216	92	0.74		9.9	394,000	6,304,000	145
	Public	9	388	80	0.66		15.9	632,000	10,112,000	232
	Light Industrial	0	14	91	0.74		0.6	26,000	416,000	10
	Other Urban	5	196	80	0.66		8.0	319,000	5,104,000	117
	Open	3	119	0	0.10		0.7	30,000	480,000	11
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	4,327	52	0.46		123.0	4,898,000	78,368,000	1,799
Basin 26	Single-family	72	3,553	42	0.39		85.9	3,417,000	54,672,000	1,255
	Multi-family	4	219	68	0.58		7.9	313,000	5,008,000	115
	Commercial	1	62	92	0.74		2.9	114,000	1,824,000	42
	Public	3	144	80	0.66		5.9	233,000	3,728,000	86
	Light Industrial	0	16	91	0.74		0.7	29,000	464,000	11
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	19	933	0	0.10		5.8	230,000	3,680,000	84
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	4,927	37	0.36		109.1	4,336,000	69,376,000	1,593
Basin 27	Single-family	40	1,512	42	0.39		36.5	1,455,000	23,280,000	534
	Multi-family	2	73	68	0.58		2.6	104,000	1,664,000	38
	Commercial	2	65	92	0.74		3.0	120,000	1,920,000	44
	Public	2	73	80	0.66		3.0	118,000	1,888,000	43
	Light Industrial	1	22	91	0.74		1.0	40,000	640,000	15
	Other Urban	0	0	80	0.66		0.0	0	0	0
	Open	54	2,016	0	0.10		12.5	498,000	7,968,000	183
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	3,760	22	0.25		58.7	2,335,000	37,360,000	857
Basin 28	Single-family	47	1,093	42	0.39		26.4	1,052,000	16,832,000	386
	Multi-family	2	41	68	0.58		1.5	58,000	928,000	21
	Commercial	1	14	92	0.74		0.6	25,000	400,000	9
	Public	2	54	80	0.66		2.2	90,000	1,440,000	33
	Light Industrial	0	0	91	0.74		0.0	0	0	0
	Other Urban	5	107	80	0.66		4.4	175,000	2,800,000	64
	Open	44	1,035	0	0.10		6.4	254,000	4,064,000	93
	Unknown	0	0	65	0.56		0.0	0	0	0
	Basin Total	100	2,344	27	0.29		41.6	1,654,000	26,464,000	606
Watershed Total	Single-family	26	70,198	42	0.39		2,040	81,201,000	1,299,216,000	29,826
	Multi-family	7	18,496	68	0.58		799	31,822,000	509,152,000	11,689
	Commercial	3	8,481	92	0.74		471	18,745,000	299,920,000	6,885
	Public	2	5,200	80	0.66		252	10,052,000	160,832,000	3,692
	Light Industrial	2	4,002	91	0.74		219	8,725,000	139,600,000	3,205
	Other Urban	3	8,210	80	0.66		376	14,959,000	239,344,000	5,495
	Open	57	150,243	0	0.10		1,331	52,985,000	847,760,000	19,462
	Unknown	0	397	65	0.56		16	621,000	9,936,000	228
	Watershed Total	100	265,228	24	0.27		5,504	219,110,000	3,505,760,000	80,482

Table 6. Land Use Breakdown by Drainage Basin.

DRAINAGE BASIN	RESIDENTIAL		COMMERCIAL/INDUSTRIAL		OPEN/UNDEVELOPED		
	acreage	percentage	acreage	percentage	acreage	percentage	percentage
01	0	0%	1	0%	7,202	5%	100%
02	46	3%	22	2%	1,360	1%	95%
03	58	5%	8	1%	1,043	1%	94%
04	46	4%	0	0%	1,132	1%	96%
05	132	7%	0	0%	1,882	1%	93%
06	669	10%	96	1%	6,098	4%	89%
07	477	8%	187	3%	5,437	4%	89%
08	776	23%	15	0%	2,596	2%	77%
09	190	9%	1	0%	2,039	1%	91%
10	102	3%	3	0%	3,664	2%	97%
11	241	6%	230	5%	3,816	3%	89%
12	6,046	9%	2,375	3%	61,871	41%	88%
13	353	16%	0	0%	1,893	1%	84%
14	488	15%	20	1%	2,649	2%	84%
15	67	3%	0	0%	1,987	1%	97%
16	1,457	12%	0	0%	11,149	7%	88%
17	726	15%	216	4%	4,017	3%	81%
18	922	33%	65	2%	1,836	1%	65%
19	2,551	24%	147	1%	7,837	5%	74%
20	6,190	69%	1,016	11%	1,731	1%	19%
21	53,044	64%	16,368	20%	13,874	9%	17%
22	1,715	34%	2,474	49%	847	1%	17%
23	204	12%	1,337	81%	103	0%	6%
24	2,313	85%	338	12%	76	0%	3%
25	3,393	78%	814	19%	119	0%	3%
26	3,772	77%	222	5%	933	1%	19%
27	1,584	42%	160	4%	2,016	1%	54%
28	1,134	48%	176	7%	1,035	1%	44%
Total	88,694	33%	26,291	10%	150,243	100%	57%

$$RV = 0.007 IMP + 0.1$$

where: RV = runoff coefficient
 IMP = impervious area (expressed as a percentage).

In this study, the percentage of impervious surface area for a given land use category is taken or estimated from the Santa Monica Bay Drainage Basin - Drainage Area Characteristics (Los Angeles County Department of Public Works). For land use types not reported, an average of similar categories was taken. The Public and Other Urban categories were an average of the Multi-family and Commercial impervious surface values. The Unknown category was an average of the Single Family, Multi-family, Light Industry, Open and Commercial impervious surface values.

Table 7 lists the percentage of impervious surface area and runoff coefficient for each of the land use categories used in the Santa Monica Bay watershed. These values range from 0% impervious (runoff coefficient of 0.10) for open spaces and 92 percent impervious (runoff coefficient of 0.74) for commercial land uses. An average impervious area of 65 percent is used for areas with unknown land uses.

2.3 RUNOFF VOLUME

Storm runoff volumes and flow rates are calculated from the rainfall statistics and land use characteristics presented above. The Santa Monica Bay watershed is broken into 28 drainage basins, all of which drain directly to Santa Monica Bay. Each drainage basin is then made up of several smaller catchments. The computations are made for each catchment in the watershed and summed to produce the runoff data for each drainage basin and the entire watershed. The catchment data are included in Appendix A (Table A-1) and are summarized in Table 8. Average storm runoff was calculated by multiplying the average storm rainfall by the appropriate runoff coefficients. The annual average storm runoff was then calculated by multiplying the average storm runoff by the average number of storms per year. The amount of runoff from a drainage basin is primarily influenced by the size of the drainage basin. Drainage basins 12 and 21 represent 58 percent of the total watershed area and contribute an estimated 62 percent of the average annual runoff to Santa Monica Bay.

The computed runoff volumes can be compared to stream flow data to determine the validity of the method and parameters. Stream flow data are available for three gages located in the Santa Monica Bay watershed along Ballona, Topanga and Malibu Creeks. Information on the location, drainage area, period of record, and average annual stream flow is given in Table 9. The monthly average stream flow at each gage are summarized in Table 10. As shown in the table, the wet season total represents the majority of stream flow at each gage.

Table 11 shows a comparison of the wet season total stream flow at each gage and the computed storm runoff volume for the corresponding drainage basin. Because the stream gages are located within each drainage basin and measure a smaller drainage area than that used in the computations, the computed storm runoff volumes are adjusted in proportion to the drainage areas. As seen by the percent difference between the adjusted storm runoff and the recorded average wet season stream flow, the computed storm runoff volume for Topanga Creek is 48 percent less than the recorded stream flow.

Table 7. Land Use Characteristics.

LAND USE CATEGORY	PERCENT IMPERVIOUS (a)	RUNOFF COEFFICIENT (b)
Single-family	42	0.39
Multi-family	68	0.58
Commercial	92	0.74
Public	80	0.66
Light Industrial	91	0.74
Other Urban	80	0.66
Open	0	0.10
Unknown	65	0.56

(a) Based on Los Angeles County Department of Public Works, NPDES Permit No. CA0061654, Attachment 1, Santa Monica Bay Drainage Basin, Drainage Area Characterization.

(b) Estimates based on percent imperviousness and runoff coefficient relationship given in FHWA (1990).

Table 8. Land Uses and Hydrology for Santa Monica Bay Watershed.

DRAINAGE BASIN	PERCENT OF TOTAL ACREAGE	TOTAL BASIN ACREAGE	PERCENT IMPERVIOUS	RUNOFF COEFFICIENT Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVERAGE ANNUAL VOLUME (CU FT)	AVG. ANN. STORM RUNOFF (AF/YR)
01	2.7	7,203	0	0.10	0.00	67	2,682,000	42,912,000	985
02	0.5	1,428	3	0.12	0.00	13	522,000	8,352,000	192
03	0.4	1,108	3	0.12	0.00	10	414,000	6,624,000	153
04	0.4	1,178	2	0.11	0.00	10	408,000	6,528,000	149
05	0.8	2,014	3	0.12	0.00	19	742,000	11,872,000	272
06	2.6	6,862	5	0.14	0.00	79	3,153,000	50,448,000	1,158
07	2.3	6,101	6	0.14	0.00	77	3,073,000	49,168,000	1,129
08	1.3	3,387	10	0.17	0.00	44	1,746,000	27,936,000	642
09	0.8	2,229	4	0.12	0.00	22	874,000	13,984,000	321
10	1.4	3,770	1	0.11	0.00	35	1,409,000	22,544,000	518
11	1.6	4,288	7	0.15	0.00	52	2,058,000	32,928,000	755
12	26.5	70,292	7	0.15	0.00	927	36,929,000	590,864,000	13,565
13	0.8	2,246	7	0.15	0.00	25	1,009,000	16,144,000	371
14	1.2	3,157	7	0.15	0.00	39	1,555,000	24,880,000	571
15	0.8	2,054	1	0.11	0.00	17	690,000	11,040,000	253
16	4.8	12,606	5	0.13	0.00	162	6,455,000	103,280,000	2,371
17	1.9	4,959	10	0.17	0.00	71	2,840,000	45,440,000	1,043
18	1.1	2,823	16	0.21	0.00	47	1,866,000	29,856,000	686
19	4.0	10,535	11	0.18	0.00	161	6,418,000	102,688,000	2,358
20	3.4	8,937	44	0.41	0.00	258	10,288,000	164,608,000	3,779
21	31.4	83,287	48	0.44	0.00	2,749	109,434,000	1,750,944,000	40,196
22	1.9	5,036	55	0.48	0.00	150	5,986,000	95,776,000	2,199
23	0.6	1,644	72	0.60	0.00	61	2,441,000	39,056,000	897
24	1.0	2,727	48	0.43	0.00	73	2,895,000	46,320,000	1,064
25	1.6	4,327	52	0.46	0.00	123	4,898,000	78,368,000	1,799
26	1.9	4,927	37	0.36	0.00	109	4,336,000	69,376,000	1,593
27	1.4	3,760	22	0.25	0.00	59	2,335,000	37,360,000	857
28	0.9	2,344	27	0.29	0.00	42	1,654,000	26,464,000	606
Total	100.0	265,228	24	0.27	0.00	5,504	219,110,000	3,505,760,000	80,482

Table 9. Streamflow Gages in Santa Monica Bay Watershed.

Station Name	Station I.D. Number	Latitude	Longitude	Drainage Area (square miles)	Period of Record	Average Annual Streamflow (acre-feet)
Ballona Creek near Culver City	11103500	33°59'54"	118°24'05"	89.5	1928-78	30,060
Malibu Creek at Crater Camp near Calabasa	11105500	34°04'40"	118°42'03"	105.0	1931-79	16,870
Topanga Creek near Topanga Beach	11104000	34°03'52"	118°35'10"	18.0	1930-79	4,320

Source: U.S. Geological Survey stream gage record summaries.

Table 10. Seasonal Streamflow

MONTH	STREAMFLOW (ACRE-FEET)		
	Ballona Creek	Malibu Creek	Topanga Creek
Wet Season			
November	2,990	560	130
December	4,430	1,210	340
January	5,980	4,610	1,160
February	6,190	4,220	1,280
March	4,300	4,220	1,020
April	2,000	1,230	270
Wet Season Total	25,890	16,050	4,200
Dry Season			
May	770	340	60
June	540	170	20
July	590	90	10
August	650	70	10
September	790	80	10
October	830	70	10
Dry Season Total	4,170	820	120
Annual Total	30,060	16,870	4,320

Table 11. Streamflow and Storm Runoff Comparison.

	Ballona Creek (Basin 21)	Malibu Creek (Basin 12)	Topanga Creek (Basin 16)
STREAM GAGE DATA			
Drainage area (square miles)	89.5	105	18
Wet season streamflow (acre-feet)	25,890	16,050	4,200
COMPUTED STORM RUNOFF			
Total basin area (square miles)	130.1	109.8	19.7
Wet season storm runoff computed for total basin (acre-feet)	40,200	13,560	2,370
Wet season storm runoff adjusted for gage drainage area (acre-feet)	27,650	12,970	2,170
COMPARISON			
Difference between adjusted storm runoff and recorded streamflow (acre-feet)	1,760	-3,080	-2,030
Percent difference between adjusted storm runoff and recorded streamflow	7%	-19%	-48%

The computed storm runoff volumes for Malibu Creek are 19 percent less than the recorded average wet season stream flow. Part of this error may be due to the fact that the model is only calculating runoff and does not consider base flow (base flow is any flow that is not derived from rainfall, such as flow from point sources).

The Ballona Creek computed storm runoff volumes are 7 percent higher than the recorded stream flow. A possible source of error in this comparison is that the stream gage data encompasses a drainage area of 89.5 square miles while the storm runoff is computed for a 130.1 square mile drainage area then adjusted for comparison. The drainage area in the model is slightly larger because it includes catchments which are downstream of the gaging station. Other errors in the runoff calculations are probably due to the simplicity of the model and the use of lumped parameters. These results indicate that the runoff coefficients and rainfall parameters reasonably represent actual conditions.

2.4 WATER QUALITY PARAMETERS

Key water quality parameters that are of concern to urban nonpoint source runoff and required for Part 2 of the NPDES Stormwater Permit Application are included in this study. The water quality parameters that are included in this study consist of total suspended solids (TSS); 5-day biochemical oxygen demand and chemical oxygen demand (BOD₅ and COD); nutrients (total Kjeldahl nitrogen (TKN) and nitrite-nitrate nitrogen (NO₂+NO₃) and total and soluble phosphorus); total metals (copper, zinc, and lead), and oil and grease.

The following is a brief description of the pollutants used in the model:

- **Total Suspended Solids (TSS).** The term "suspended solids" is descriptive of the organic and inorganic particulate matter which is of a size and type that allows the particles to stay suspended in water. The sediment load in a water body is influenced by a number of factors including but not limited to: particle size, stream flow, climate, geology, and vegetation of each drainage system. The conditions under which suspended sediments are considered a pollutant is a matter of definition. In general, suspended solids are considered a pollutant when they significantly exceed natural concentrations and have a detrimental effect on water quality and/or beneficial uses of the water body. Suspended sediments are often used as a surrogate for other contaminants which bind easily with fine particulate matter, including heavy metals. Open areas are assigned the highest concentrations for TSS in the model.
- **Oxygen Demand.** Oxygen demand refers to the amount of oxygen that will be consumed by biological or chemical reactions involving organic compounds. In general, moderately high dissolved oxygen content is necessary for the maintenance of healthy aquatic ecosystems. The relationship of oxygen-consuming discharges to the amount of dissolved oxygen in a receiving water body, therefore, is fundamental to the maintenance of environmental quality in natural water bodies. The oxygen demand parameters are about equal for all the land use areas, except BOD₅ for Open areas. This is probably due to pollutants such as fertilizers, animal wastes and other organics.

Biochemical Oxygen Demand (BOD). The BOD test provides an indirect measure of the quantity of biologically degradable organic matter in water in terms of the amount of oxygen required by microorganisms to oxidize it to carbon dioxide and

water. The decomposition of biodegradable materials by natural soil and water bacteria draws upon the dissolved oxygen resources of a water body. This process is countered by natural re-aeration processes that all water bodies possess to varying degrees. Significant reductions in dissolved oxygen concentrations can result when the demand rate exceeds the rate of replenishment through re-aeration.

Chemical Oxygen Demand (COD). The COD test provides a more rapid measure of oxygen demand. The consumption of oxygen from a strongly oxidizing chemical agent is measured by this test. As a result, it typically measures appreciably higher levels of oxygen demand than will be produced by biological decomposition because it oxidizes some organic compounds that are not biodegradable, and may also react with inorganic compounds as well. In urban stormwater, for example, COD levels are typically found to be about 8 times greater than BOD levels.

- **Nutrients.** Nutrients are necessary for the growth and support of biota in natural water systems. Excessive quantities can result in the over-stimulation of biological growth and the creation of objectionable water quality conditions. Runoff from fertilized areas and discharges of sewage or industrial wastes are frequently sources of significant quantities of nutrients. Other sources include urban stormwater runoff and direct atmospheric deposition to water body surfaces. In general, the most important nutrient factors causing an acceleration in algal production are nitrogen compounds and phosphorus. Again, the Single Family has the highest concentration of nutrients. This is probably due to pollutants such as fertilizers, animal wastes and other organics. The high value for TKN can be attributed to the increased amount of foliage entering stormwater from this land use type.

Nitrogen. Among the potential major point sources of nitrogen which enter water bodies are municipal and industrial waste waters, and septic tank and feed-lot discharges. It is unlikely that the latter two are significant contributors to the system. Nonpoint sources of nitrogen include lawn fertilizers, leachate from waste disposal in dumps or sanitary landfills, atmospheric fallout, nitrite discharges from automobile exhausts and other combustion processes, and natural sources such as mineralization of soil organic matter, and farm-site fertilizers and animal wastes. Many water treatment methods have no significant effect on nitrate removal from water (Dunne and Leopold, 1978).

Two forms of nitrogen have been analyzed extensively in stormwater runoff water quality studies. These are nitrite plus nitrate ($\text{NO}_2 + \text{NO}_3$), and total Kjeldahl nitrogen (TKN). The latter, named after the analytical test procedure, provides a measure of ammonia and organic nitrogen forms that are present. The former ($\text{NO}_2 + \text{NO}_3$) provides a measure of the inorganic nitrogen. Both NO_3 and TKN are analyzed in this study.

Phosphorus. Phosphorus is used by algae and higher aquatic plants and may be stored in excess of use within plant cells. With decomposition of plant cells, some phosphorus may be released immediately through bacterial action for recycling within the biotic community, while the remainder may be deposited with sediments. Much of the phosphoric material that combines with the consolidated sediments within the bottom of a water body is bound permanently, with a low likelihood of being recycled into the water column.

Phosphorus enters waterways from many of the same sources as nitrogen. Domestic sewage contains significant concentrations of phosphorus, which is

contributed by detergents and human wastes. Primary and secondary treatment processes remove only about 20 to 30 percent of this element from sewage (Dunne and Leopold, 1978). Fertilizers and the erosion of soils rich in phosphorus can also be a potential source.

Two forms of phosphorus have been routinely analyzed in stormwater runoff water quality studies. These include total phosphorus (TP) and soluble phosphorus (SP). This study analyzes both of these parameters.

- **Metals.** Heavy metals such as copper, lead, and zinc are naturally released in very small quantities by the weathering of exposed soils and mineral deposits, corroding metal surfaces, decomposing paints, and certain corrosion-control compounds. Heavy metals tend to have comparatively low solubilities and are often mobilized by forming soluble complexes with humic materials or by becoming attached to clay particles.

These metals are present in the biosphere as trace elements and are micronutrients necessary for plant and animal growth. Heavy metals are of concern because elevated concentration levels of soluble forms in natural water bodies can produce toxic effects in biota. Sources include domestic and industrial point-source discharges, urban stormwater runoff, and direct atmospheric deposition. In this study copper (Cu), lead (Pb), and zinc (Zn) have been chosen for analysis because stormwater runoff water quality studies conducted at other urban locations have indicated that these metals are almost always present, and are at concentrations which tend to be elevated, relative to other heavy metals. They also can be used as surrogates for other heavy metals, as they tend to display similar transport characteristics. Copper and lead are often associated with automotive emissions and leaks which is possibly why they are higher in the Santa Monica Bay area. Industrial and Commercial areas are assigned the largest concentration of zinc.

- **Oil and Grease.** Oil and grease is a prevalent constituent in urban runoff. In a study of oil and grease concentrations in urban runoff in Richmond, California, Stenstrom et al. (1984) found that oil and grease concentrations in runoff from commercial properties and parking lots are about three times higher than from residential and open areas. The NURP program did not address oil and grease. Due to the very limited data base on oil and grease concentrations, it was not possible to accurately model this constituent. Accurately measuring oil and grease is very difficult, especially due to its affinity for coating sampling bottles. Eganhouse and Kaplan (1981) measured oil and grease concentrations in the Los Angeles River and found that concentrations were generally lower during storm events than during dry flows. The State of the Bay report (SCAG, 1988) estimated that urban runoff accounted for about 3 percent of the total input of oil and grease to the Bay. The oil and grease concentrations are the same for all land use types except the Open and Single Family categories, which are lower (Stenstrom et al., 1984).

To quantify the pollutant characteristics of runoff from a given area and the surrounding vicinity, it is desirable (and sometimes possible) to use site-specific data or local data. However, the data set must be extensive enough to adequately characterize urban runoff water quality from each land use type. When extensive amounts of data are not available, as is the case for Santa Monica Bay, an alternative approach is to use the NURP database for characterizing typical runoff concentrations.

2.5 LOCAL DATA COLLECTION

One of the tasks of this project was to assemble all the available runoff water quality data. In this way an additional source of data beyond the NURP data would be available for accessing inputs to Santa Monica Bay. In theory this data could be more accurate than NURP data because they were collected from inputs to the Bay, as opposed to many different runoff sources. It was also planned to make the data available for other Santa Monica Bay Restoration Project purposes

Data collection was begun in 1990 and completed in 1991. At the beginning of the collection process all agencies that routinely monitor or have monitored stormwater runoff (point source data were excluded from the goals of this project, since the data are accessible by other means) were contacted either by telephone or letter. A total of 15 potential data sources were found.

After identifying the data sources an assessment of the quantity and quality of the data was made. Of the 15 original sources 9 were deemed to be suitable for inclusion. The other six sources were not included because the data were too few in number, collected by unconventional techniques, duplicative of other sources, or collected at points not discharging into Santa Monica Bay. Most data were collected in machine-readable format; some data, such as the data from SCCWRP were coded from printed material. It is important to note that data gathered from a variety of sources such as those contributing to this data set are less reliable than data collected from a single source or data collected through a sampling program with quality assurance (QA) and quality control (QC) programs. No rigorous analysis of the data was performed. If the parties responsible for collecting the data introduced errors, then they will also exist in this combined data set. Table 12 shows the sources of data. Further information on each source is provided in Appendix B, along with other material describing the data set.

Many of the data sources contained data collected from several places. There were a total of 47 different locations. Table 13 shows the locations. They are coded by longitude and latitude. Two sources have missing locations and are unavailable. Many of the various locations were collected from source 11 through US EPA STORET records. The location name shown in the table is the most accepted name known to us, although some agencies have different names for specific locations. There is no standard naming convention for the locations.

A data set was constructed of all the records and integrated with SAS (1985) on the UCLA IBM 9000/900 computer. The SAS program was used to calculate various statistics as well as to divide the data into subsets, such as data collected under dry and wet weather conditions. All parameters were coded by STORET number. A separate data set is included which can be used to decode the STORET numbers into water quality parameters. Table 14 shows a subset of the STORET codes used later in the text of the report. There are a total of over 11,000 STORET codes.

The locations were not correlated to any particular rain gauge, flow gauge or discharge location. This is because the data were collected by several agencies who had no reason to perform a systematic monitoring plan. Furthermore, much of the data was collected for purposes other than accessing inputs to Santa Monica Bay.

Table 15 shows the number of observations at each sample location. Also included are the periods of observation, number of parameters monitored, and number of observations below detection limits. The earliest observations were made in 1967. The most recent were made at the end of 1990. The reason there are no observations in 1991, even though the

Table 12. Sources of Data.

Source Number	Title and Description of Source	Status
1	Santa Monica Bay Stormwater Pollutant Reduction Study. City of Los Angeles and Engineering Science.	Included
2	Coliform Database by SAIC	Excluded
3	Surface Water Quality Survey - Los Angeles Regional Water Quality Control Board.	Included
4	Discharges from Storm Drains to Santa Monica Bay -- Dept. of Health Services, County of LA	Included
5	An Assessment of Inputs of Fecal Indicator Organisms and Human Enteric Viruses from Two Storm Drains -SMBRP	Included
6	Stormwater Runoff Program -- SCCWRP	Included
7	National Pollutant Discharge Inventory - NOAA	Excluded
8	NPDES Monitoring Reports -- RWQCB	Excluded
9	Search for Mutagens and Carcinogens in Pico Kenter Storm Drain -- Los Angeles County	Excluded
10	Ozone Pilot Plant -- SMBRP and City of Santa Monica.	Included
11	Los Angeles County Dept. of Public Works Surface Water Quality Monitoring Program	Included
12	Deposition and Processing of Airborne Pollutants- National Parks Service	Included
13	California Mussel Watch	Excluded
14	Hyperion Treatment Plant Coliform Data City of Los Angeles	Excluded
15	Los Angeles River Loadings of Trace Metals and Synthetic Organics - US E.P.A.	Included

Table 13. Sampling Locations.

Location Code	Latitude	Longitude	Station Name
1	34.06444	118.3547	BALLONA CREEK
2	34.04222	118.2661	FIGUEROA ST. & 12TH ST.
3	34.02694	118.2728	ADAMS & HOPE ST.
4	34.05083	118.3272	WINDSOR BLVD 500FT N. OF 12TH ST.
5	34.02917	118.3147	CIMARRON ST. & 29TH ST.
6	34.03488	118.3313	BRONSON AVE.
7	34.04278	118.6833	MALIBU CREEK @ CROSS CREEK RD
8	34.08472	118.7117	MALIBU CREEK @ SALVATION ARMY CAMP
9	34.04111	118.5800	TOPANGA CANYON CREEK U/S OF PCH(~1000')
10	34.02833	118.5178	SANTA MONICA CANYON @ PCH
11	33.98500	118.4125	CENTINELA CREEK @ CENTINELA AVE.
12	33.99000	118.4108	BALLONA CREEK @ INGLEWOOD AVE.
13	33.99222	118.4067	BALLONA CREEK @ SEPULVEDA CHANNEL
14	33.99222	118.4072	SEPULVEDA CHANNEL @ BALLONA CREEK
15	34.01528	118.4264	SAWTELLE CHANNEL ABOVE SEPULVEDA CHANNEL
16	34.01556	118.4267	SEPULVEDA CHANNEL ABOVE SAWTELLE CHANNEL
17	34.01611	118.3892	BENEDICT CANYON CHANNEL @ BALLONA CREEK
18	34.02306	118.3675	JEFFERSON BLVD DRAIN @ BALLONA CREEK
19	34.03333	118.3742	LA CIENAGA BLVD DRAIN @ BALLONA CREEK
20	34.03833	118.3678	BALLONA CREEK @ FAIRFAX AVE.
21	34.00556	118.4908	PICO-KENTER OUTFALL
22	33.99667	118.4842	ASHLAND AVE STORM DRAIN OUTFALL
23	33.96083	118.4583	BALLONA CREEK OUTFALL
24	34.00889	118.4956	SANTA MONICA PIER STORM DRAIN OUTFALL
25	33.93056	118.4358	IMPERIAL HWY STORM DRAIN OUTFALL
26			AINSWORTH STORM DRAIN OUTFALL
27	33.83611	118.3894	AVENUE I STORM DRAIN
28	34.02806	118.5189	SANTA MONICA CANYON STORM DRAIN OUTFALL
29	34.03813	118.5414	PULGA CANYON STORM DRAIN OUTFALL
30	33.99667	118.4842	ASHLAND AVE U/S OF OUTFALL
31	34.00639	118.4911	PICO-KENTER U/S OF OUTFALL
32			DEER CANYON CREEK
33	34.04592	118.9055	LA CHUSA CANYON CREEK
34	34.03856	118.8425	TRANCAS CANYON CREEK
35	34.02426	118.7865	RAMIREZ CANYON CREEK
36	34.03466	118.7435	SOLSTICE CANYON CREEK
37	34.03553	118.7326	CORRAL CANYON CREEK
38	34.03778	118.6481	CARBON CANYON CREEK
39	34.00556	118.4908	PICO-KENTER DRAIN
40	34.09184	118.5686	UPPER SANTA YNEZ CANYON CREEK
41	33.99667	118.4022	BALLONA CRK @ SAWTELLE BLVD
42	33.98500	118.4119	CENTINELA CRK @ CENTINELA BLVD
43	34.70000	118.7331	CORAL CANYON CRK @ PCH
44	34.00056	118.8056	DUME CRK @ ZUMA BEACH
45	34.02917	118.5158	SANTA MONICA CANYON CHANNEL @ SHORT ST.
46	33.99222	118.4072	SEPULVEDA CHANNEL @ CULVER BLVD
47	33.87245	118.33232	I-405 FREEWAY @ REDONDO BEACH BLVD

Note: Blank Latitude and Longitude means missing data

Table 14. Storet Code Description

Storet Code	Storet Parameter Description
1027	Cadmium, Total ($\mu\text{g/L}$ as Cd)
1042	Copper, Total ($\mu\text{g/L}$ as Cu)
1051	Lead, Total ($\mu\text{g/L}$ as Pb)
1092	Zinc, Total ($\mu\text{g/L}$ as Zn)
310	BOD, 5 Day, 20°C ($\mu\text{g/L}$)
340	COD, 0.25 N $\text{K}_2\text{Cr}_2\text{O}_7$ ($\mu\text{g/L}$)
403	pH, Lab, Standard Unit (SU)
515	Residue, Total Filtrable (Dried at 105°C) ($\mu\text{g/L}$)
550	Oil and Grease (Soxhlet Extraction) Total, Rec., ($\mu\text{g/L}$)
608	Nitrogen, Ammonia, Dissolved ($\mu\text{g/L}$ as N)
615	Nitrite Nitrogen, Total ($\mu\text{g/L}$ as N)
620	Nitrate Nitrogen ($\mu\text{g/L}$ as N)
650	Phosphate, Total ($\mu\text{g/L}$ as PO_4)
680	Carbon, Total Organic ($\mu\text{g/L}$ as C)
95	Specific Conductance ($\mu\text{mhos/cm}$ @ 25°C)
31505	Coliform, Tot, MPN, Confirmed Test, 35°C (Tube 31506)
530	Residue, Total Nonfiltrable ($\mu\text{g/L}$)
31615	Fecal Coliform, MPN, EC Med, 44.5°C (Tube 31614)
610	Nitrogen, Ammonia, Total ($\mu\text{g/L}$ as N)
31616	Fecal Coliform, Mbr Filter, M-FC Broth, 44.5°C
70507	Phosphorus, in Total Orthophosphate ($\mu\text{g/L}$ as P)
31673	Fecal Streptococci, Mbr Filt, KF Agar, 35°C, 48 hours

Table 15. General Description of the Completed Data Set.

LOCATION NAME	Location Code	Number of Data Points	Number Below Detection	Number of Different Parameters	Earliest Data	Most Recent Data
ADAMS & HOPE ST.	3	546	439	73	26-Feb-88	25-Nov-88
AINSWORTH STORM DRAIN OUTFALL	26	27	0	3	21-Jul-86	18-Sep-86
ASHLAND AVE STORM DRAIN OUTFALL	22	25	0	3	21-Jul-86	18-Sep-86
ASHLAND AVE U/S OF OUTFALL	30	44	0	3	10-Aug-89	29-Sep-89
AVENUE I STORM DRAIN	27	27	0	3	21-Jul-86	18-Sep-86
BALLONA CREEK	1	1228	771	86	28-Nov-70	24-Jul-88
BALLONA CREEK @ FAIRFAX AVE.	20	8267	1123	130	16-Oct-74	5-Dec-90
BALLONA CREEK @ INGLEWOOD AVE.	12	1076	417	167	28-Nov-70	6-Feb-90
BALLONA CREEK @ SEPULVEDA CH'NL	13	39	38	39	11-Dec-86	11-Dec-86
BALLONA CREEK OUTFALL	23	25	0	3	21-Jul-86	18-Sep-86
BALLONA CRK @ SAWTELLE BLVD	41	14441	1218	125	20-Nov-67	5-Dec-90
BENEDICT CYN CH'NL @ BALLONA CREEK	17	39	39	39	20-Apr-87	20-Apr-87
BRONSON AVE.	6	643	533	73	27-Feb-88	23-Nov-88
CARBON CYN CREEK	38	1	0	1	25-Mar-82	25-Mar-82
CENTINELA CREEK @ CENTINELA AVE.	11	1593	245	86	16-Apr-69	23-Jun-87
CENTINELA CRK @ CENTINELA BLVD	42	1656	977	59	11-May-88	7-Sep-90
CIMARRON ST. & 29TH ST.	5	721	609	73	28-Feb-88	25-Nov-88
CORAL CYN CRK @ PCH	43	133	24	19	10-Jan-90	11-Jul-90
CORRAL CYN CREEK	37	1	0	1	25-Mar-82	25-Mar-82
DEER CYN CREEK	32	1	0	1	25-Mar-82	25-Mar-82
DUME CRK @ ZUMA BEACH	44	40	7	20	11-May-88	16-Jun-88
FIGUEROA ST. & 12TH ST.	2	701	573	73	27-Feb-88	14-Apr-88
IMPERIAL HWY STORM DRAIN OUTFALL	25	27	0	3	21-Jul-86	18-Sep-86
I-405 FREEWAY @ REDONDO BEACH BLVD	47	380	24	12	11-Jan-81	19-Mar-81
JEFFERSON BLVD DRAIN @ BALLONA CREEK	18	39	35	39	11-Jun-87	11-Jun-87
LA CHUSA CYN CREEK	33	1	0	1	25-Mar-82	25-Mar-82
LA CIENAGA BLVD DRAIN @ BALLONA CREEK	19	39	39	39	11-Jun-87	11-Jun-87
MALIBU CREEK @ CROSS CREEK RD	7	1266	722	172	15-Dec-86	5-Jun-90
MALIBU CREEK @ SALVATION ARMY CAMP	8	80	80	41	23-Dec-86	3-May-88
PICO-KENTER DRAIN	39	3208	360	8	20-Nov-89	19-Nov-90
PICO-KENTER OUTFALL	21	45	26	31	11-Apr-71	18-Sep-86
PICO-KENTER U/S OF OUTFALL	31	1723	954	61	11-May-88	7-Sep-90
PULGA CYN STORM DRAIN OUTFALL	29	27	0	3	21-Jul-86	18-Sep-86
RAMIREZ CYN CREEK	35	1	0	1	25-Mar-82	25-Mar-82
SANTA MONICA CYN @ PCH	10	39	39	39	23-Dec-86	23-Dec-86
SANTA MONICA CYN CH'NLL @ SHORT ST.	45	988	382	36	11-May-88	7-Sep-90
SANTA MONICA CYN STORM DRAIN	28	27	0	3	21-Jul-86	18-Sep-86
SANTA MONICA PIER STORM DRAIN	24	27	0	3	21-Jul-86	18-Sep-86
SAWTELLE CH'NL ABOVE SEPULVEDA CH'NL	15	80	79	41	23-Jun-87	14-Apr-88
SEPULVEDA CH'NL @ BALLONA CREEK	14	284	279	148	11-Dec-86	6-Feb-90
SEPULVEDA CH'NL @ CULVER BLVD	46	1307	617	47	11-May-88	7-Sep-90
SEPULVEDA CH'NL ABOVE SAWTELLE CH'NL	16	80	80	41	23-Jun-87	14-Apr-88
SOLSTICE CYN CREEK	36	1	0	1	25-Mar-82	25-Mar-82
TOPANGA CYN CREEK U/S OF PCH(~1000')	9	1034	485	77	23-Dec-86	7-Sep-90
TRANCAS CYN CREEK	34	1	0	1	25-Mar-82	25-Mar-82
UPPER SANTA YNEZ CYN CREEK	40	1	0	1	25-Mar-82	25-Mar-82
WINDSOR BLVD 500FT N. OF 12TH ST.	4	391	318	73	27-Feb-88	27-Sep-88

data was obtained from the agencies in 1991, is probably the lag between collection, analysis and reporting. The full data set includes the detection limits when they were reported, the sampling technique (e.g. grab, composite, flow-weighted composite, etc.). Sampling technique, flow rate and mass emissions were included in the data set if they were provided. Few flow rates were provided and this is most likely because of the difficulty in measuring stormwater and dry weather flows.

Approximately 90% of the collected observations were coded as to wet or dry weather conditions. In order to classify the remaining observations, the date of collection and the occurrence of rainfall were noted. All of the USGS rainfall gauges in the runoff area were used. If 5 or more of the gauges showed rainfall more than 0.1 inch, the observation was classified as wet weather; otherwise it was classified as dry weather.

Table 16 shows selected data for locations that had sufficient data to perform a statistical evaluation. They are included to illustrate how the parameters for the model were selected. The parameters shown in Table 16 were selected because they match the NURP parameters used in the model, and therefore could be used to compare the Santa Monica Bay drainage area to the national averages (NURP). Refer to Table 14 to determine the units of the parameters shown in Table 16.

The left hand most columns of Table 16 show the parameter concentrations occurring at specific probabilities. For example, at Ballona Creek at Inglewood, the cadmium concentration was less than 1.175 ug/L 25% of the time, less than 2.24 ug/L 50% of the time, less than 6.98 ug/L 75% of the time, and less than 21.94 ug/L 90% of the time. The probability concentrations are more robust than the mean concentrations and are frequently more useful in comparing one data set to another.

For this study, local data were inadequate for use in the model due to the limited amount of data available. However, it was possible to use the available data for comparison with the NURP data. The NURP database includes estimated concentrations for several different land use types, including residential, commercial, mixed, and open. By comparing the median site concentrations (50% probability) of the available Santa Monica Bay data, to the concentration distribution of NURP data, the most representative NURP data can be selected for use in the model.

A comparison of the NURP site median results and actual data collected in the Santa Monica Bay watershed are presented in the plots included as Figure 8. The graphs in Figure 8 present the probability distribution of pollutant concentrations (the median value of the event mean concentrations at each site) in urban runoff at the Santa Monica Bay sites, while the NURP land uses represent the distribution of the site median concentration for the various sites tested. The data used for comparison are from sampling station 41 (Ballona Creek at Sawtelle Blvd.) and sampling station 12 (Ballona Creek at Inglewood Ave.). These two stations were chosen for comparison because they had the most data points for comparison. It should be noted, however, that a significant portion of the Santa Monica Bay data were collected as grab samples while most of the NURP data were collected as composite samples. As shown in the graphs, the spread of the data for the Santa Monica Bay locations is quite large. However, the concentration medians of the Santa Monica Bay data generally fall in the upper range of the NURP site median concentrations. Therefore, for the purposes of this study, the 90th percentile values of the NURP data are used to estimate pollutant concentrations for Santa Monica Bay. By using these concentration values, this study is assuming that the Santa Monica Bay watershed has more stormwater pollution than 90% of the other urbanized areas in the United States. These concentrations are shown in Table 17. Possible reasons for pollutant concentrations being higher in the Santa Monica Bay area are:

Table 16. Parameter Statistics for Selected Locations (wet weather conditions)

Ballona Creek (1)						Percentile			
Parameter (STORET)	N	MEAN	MAX	MIN	STD DEV	25%	50%	75%	90%
Total Coliform (31505)	9	154444	620000	0	194686	30000	60000	230000	620000
Oil and Grease (550)	9	8222.22	23000	0	8227.66	1000	8000	14000	23000
Total Organic Carbon (680)	9	27444.4	106000	0	32573.4	2500	21000	36500	106000

Ballona Crk at Inglewood (12)						Percentile			
Parameter (STORET)	N	MEAN	MAX	MIN	STD DEV	25%	50%	75%	90%
Cadmium, Total (1027)	30	5.42267	26	0	7.5337	1.175	2.25	6.98	21.94
Copper, Total (1042)	30	116.237	860	17.8	172.921	41.5	56.05	114.25	352.3
Lead, Total (1051)	30	1065.22	7140	0	1792.82	92	210.5	1454.75	2939
Zinc, Total (1092)	30	938.7	4640	82	1285.3	264.75	377	889.75	3936
Total Coliform (31505)	19	741179	7.00E+06	0	1623806	60000	2.30E+05	6.20E+05	2.40E+06
Chemical Oxygen Demand (340)	17	264412	8.86E+05	5.00E+04	235045	66500	152000	437000	621200
Total Dissolved Solids (515)	36	351833	2.50E+06	1.30E+04	473867	96250	199000	383000	934100
Total Suspended Solids (530)	6	1744500	5741000	53000	2228889	67250	925500	3497750	5741000

Ballona Crk at Fairfax (20)						Percentile			
Parameter (STORET)	N	MEAN	MAX	MIN	STD DEV	25%	50%	75%	90%
Cadmium, Total (1027)	6	5	8	3	2.36643	3	4	8	8
Copper, Total (1042)	3	176.667	300	110	106.927	110	120	300	300
Lead, Total (1051)	2	495	640	350	205.061	350	495	640	640
Zinc, Total (1092)	3	560	1250	110	606.712	110	320	1250	1250
BOD 5 (310)	6	22333.3	38000	12000	12339.6	12000	17000	38000	38000
Fecal Coliform (31616)	3	7733.33	12200	5000	3900.43	5000	6000	12200	12200
pH (403)	40	7.115	7.8	6.5	0.348293	6.9	7.05	7.2	7.79
Total Suspended Solids (530)	14	133571	402000	57000	116658	60000	108000	128000	402000
Ammonia Nitrogen (610)	6	410	620	180	197.383	180	430	620	620
Nitrate Nitrogen (620)	6	1796.67	3000	1150	932.967	1150	1240	3000	3000
Specific Conductivity (95)	42	295.333	1190	56	329.801	86.5	170	269.75	943

Ballona Crk at Sawtelle (41)						Percentile			
Parameter (STORET)	N	MEAN	MAX	MIN	STD DEV	25%	50%	75%	90%
Cadmium, Total (1027)	38	14.5789	30	1	14.5789	3	5	30	30
Copper, Total (1042)	19	41.1789	120	19	28.1813	20	31	50	88
Lead, Total (1051)	18	95.9722	500	10	131.849	47.625	50	86.25	410
Zinc, Total (1092)	19	367.895	1000	60	269.095	230	310	520	980
BOD 5 (310)	62	13516.1	45000	2000	9157.53	6000	12000	17000	25700
Fecal Coliform (31616)	28	46025	430000	800	89435.9	5525	13500	33250	137000
Chemical Oxygen Demand (340)	42	70761.9	132000	15000	29438.5	52250	69000	92000	111300
pH (403)	70	6.97257	8.31	5.8	0.514657	6.57	7	7.4	7.62
Total Suspended Solids (530)	34	152529	476000	24000	97963	89500	124000	191000	210000
Oil and Grease (550)	34	17552.9	240000	0	56502.2	2000	4000	4500	10000
Ammonia Nitrogen (diss, 608)	24	532.5	1500	10	486.069	92.5	445	907.5	1300
Ammonia Nitrogen (610)	40	344.25	1630	0	461.253	0	118.5	582.5	1090
Nitrite Nitrogen (615)	10	342	1000	60	381.774	82.5	90	602.5	1000
Nitrate Nitrogen (620)	58	1282.55	4290	0	1210.05	507.5	900	1782.5	3280
Total Organic Carbon (680)	18	24955.6	42000	13500	9036.93	19300	24000	28625	42000
Total Ortho Phosphorus (70507)	21	298.571	910	10	235.887	90	260	425	676
Specific Conductivity (95)	80	264	2100	65	349.688	98.5	154.5	236.75	636.2

I-405 and Redono Beach (47)						Percentile			
Parameter (STORET)	N	MEAN	MAX	MIN	STD DEV	25%	50%	75%	90%
Chemical Oxygen Demand (340)	31	181806	724000	23000	192502	53000	111000	220000	535600
Total Dissolved Solids (515)	32	123281	461000	16000	115989	45250	83500	158750	357100
Total Suspended Solids (530)	33	1292576	1.58E+07	18000	3611894	41000	102000	256500	3956000

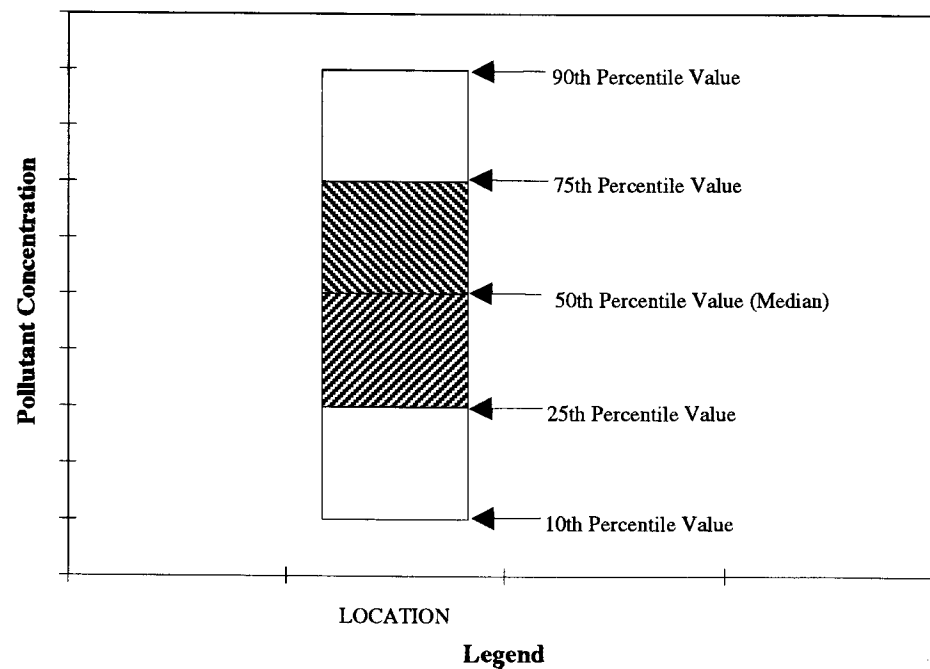
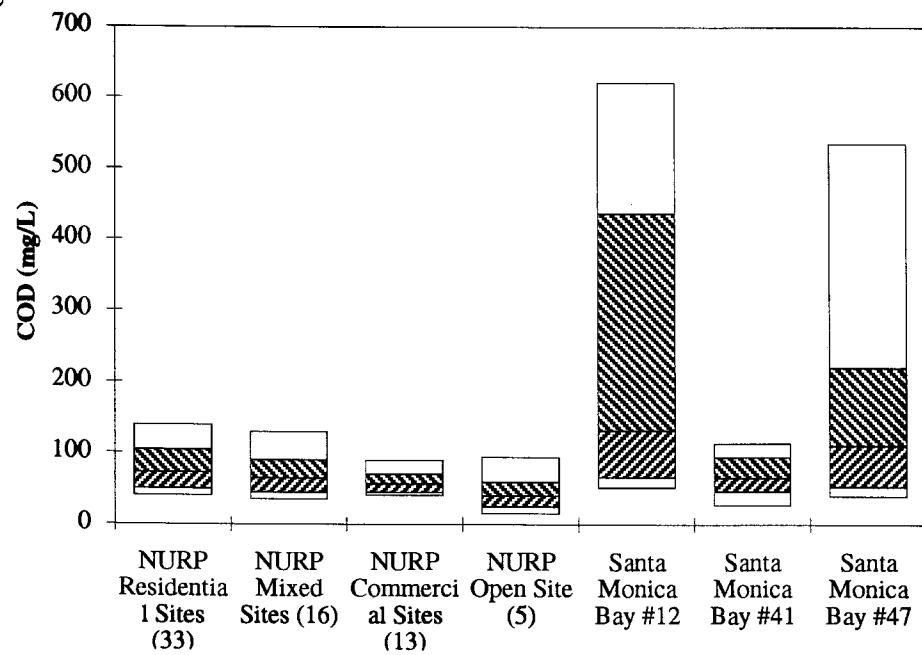
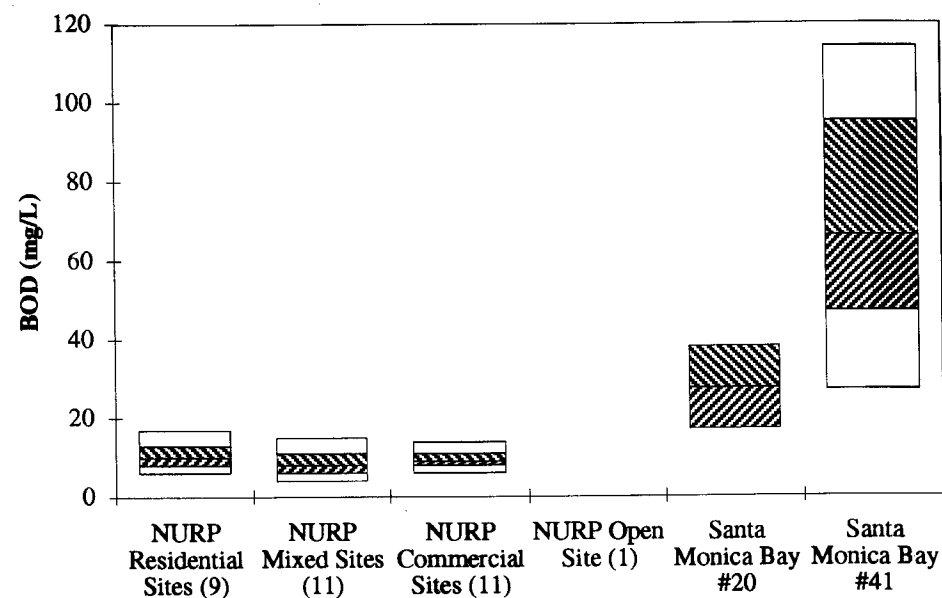
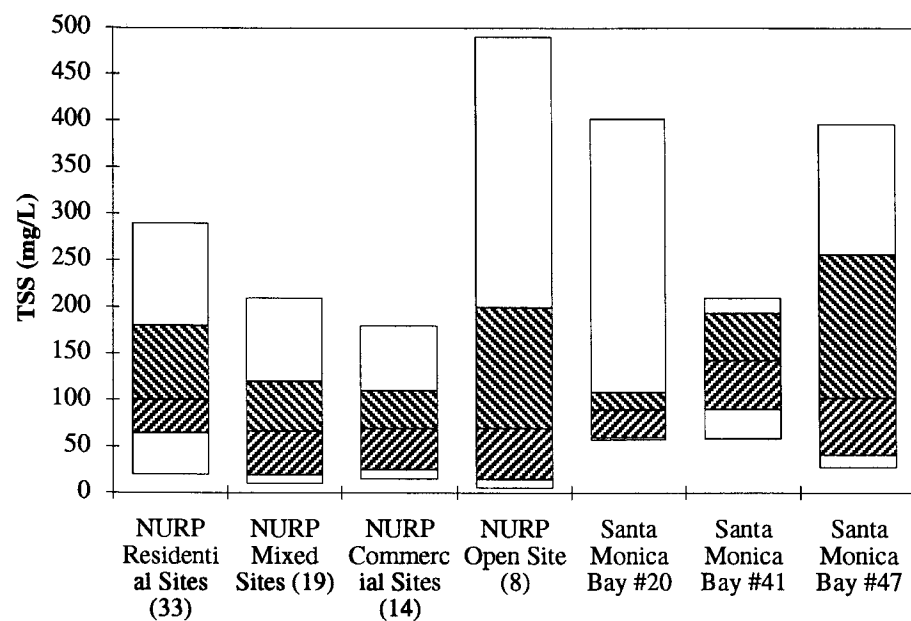


Figure 8. Plots of Pollutant Concentrations.

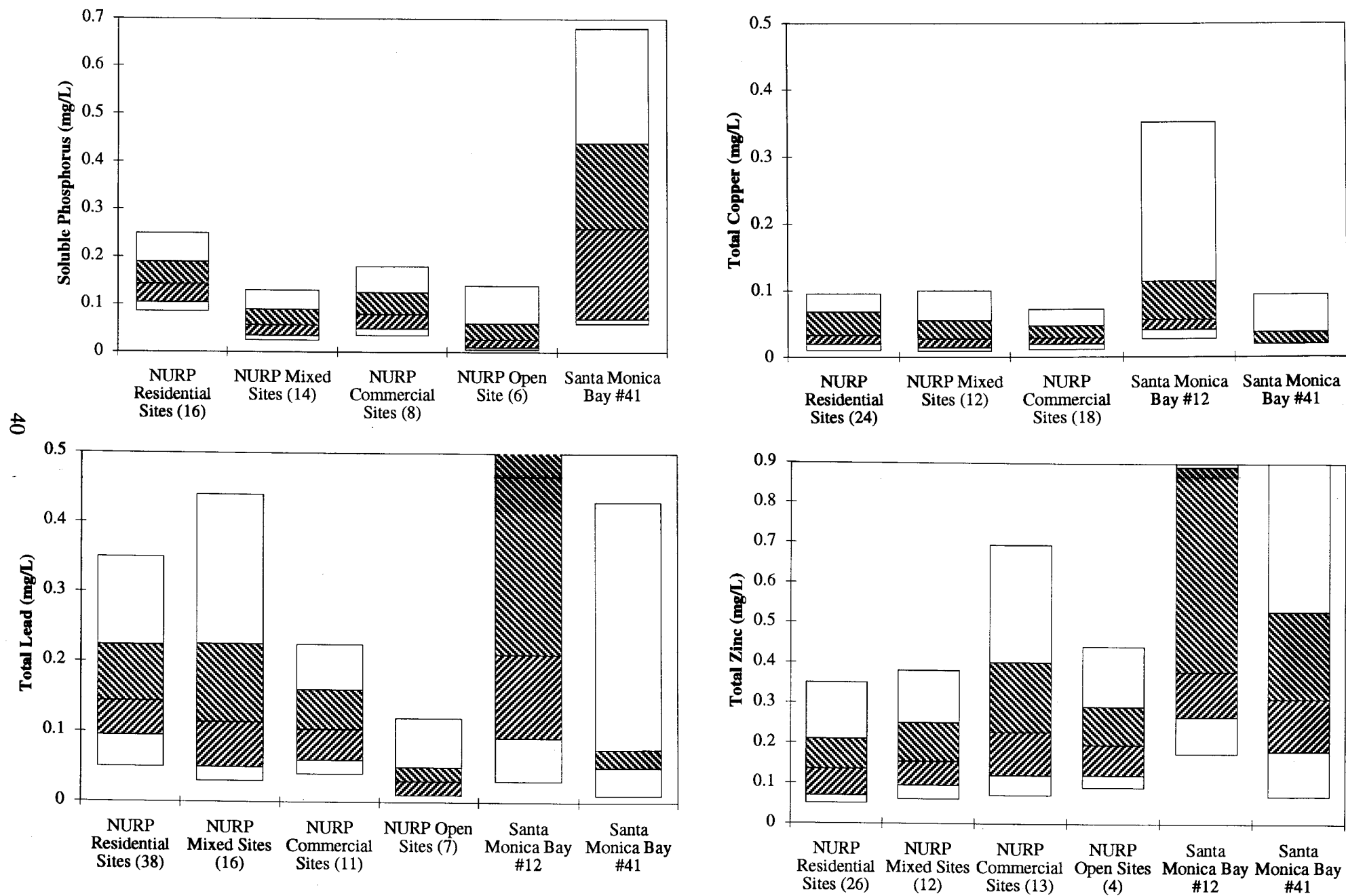


Figure 8. Plots of Pollutant Concentrations (cont'd).

Table 17. Water Quality Characteristics

LAND USE	POLLUTANT CONCENTRATION (MG/L) (a)										
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil and Grease
Single-family	290	17	140	0.850	0.250	4.300	1.850	0.095	0.350	0.350	3
Multi-family	210	15	130	0.620	0.130	2.400	1.000	0.100	0.440	0.380	22
Commercial	180	14	90	0.430	0.180	2.000	1.200	0.072	0.225	0.694	22
Public	180	14	90	0.430	0.180	2.000	1.200	0.072	0.225	0.694	22
Light Industrial	180	14	90	0.430	0.180	2.000	1.200	0.072	0.225	0.694	22
Other Urban	210	15	130	0.620	0.130	2.400	1.000	0.100	0.440	0.380	22
Open	490	2	95	0.520	0.140	2.800	1.450	0.055	0.140	0.440	0
Unknown	210	15	130	0.620	0.130	2.400	1.000	0.100	0.440	0.380	22

(a) 90th percentile values for median event mean concentrations for each site in a land use category (EPA 1983); data for commercial sites used for public, light industrial, other urban and unknown land uses.

1. The longer dry period between storms which allows a larger build up of pollutants.
2. Air pollution levels (and therefore airfall deposition of pollutants) in the Los Angeles Basin are probably higher than other urban areas.

It should be noted that the concentration used for lead may be high for present conditions. The values used in this study are based on the analyses of samples collected during NURP. Much of the stormwater quality data for the Santa Monica Bay watershed was also collected during this period. Decreased use of leaded gasoline may have reduced lead concentrations in stormwater runoff.

Oil and grease concentrations are taken from Silverman et al. (1988). These estimates are developed from stormwater runoff studies conducted in the San Francisco Bay area. Average concentrations of oil and grease determined for residential, commercial/industrial and undeveloped areas are shown in Table 17. Undeveloped areas contribute little oil and grease to stormwater runoff, whereas developed areas having large impervious areas and high vehicular use contribute a disproportionate fraction of oil and grease loadings.

Using the previously described methodology for predicting runoff volumes and pollutant concentrations from individual land use areas, pollutant loadings and average concentrations can be calculated for each catchment in the watershed. Appendix A contains detailed tables of the calculations performed in this study including land use and hydrology (Table A-1) and pollutant loadings and concentrations (Table A-2). The drainage basins can be categorized in the following way:

Drainage basins 1-19 make up the North Bay.

Drainage basins 20-22 make up West Los Angeles.

Drainage basins 23-28 make up the South Bay.

To aid in analyzing the results of the modeling, rankings based on pollutant loads and concentrations were calculated. The rankings are based on the model results and are not based on other factors, such as coastal resources, which may also be important. The overall rankings assume that all the pollutants are weighted equal. This assumption is reasonable given that the affects of the modeled pollutants on the environment in Santa Monica Bay are not fully understood. The results are summarized in two formats: by land use categories and by drainage basins.

3.1 SUMMARY BY LAND USE

The annual pollutant loadings from each land use category are presented in Tables 18 and 19. Table 18 reports the loads for each land use in each basin. Table 19 reports the results for the total watershed in pounds per year, as a percentage of total, and in kilograms per hectare per year (KG/HA/YR). A ranking of the land use categories based on annual pollutant loadings (mass) was developed and is shown in Table 20. A ranking of 1 corresponds to the highest average annual pollutant loading for a given pollutant and a ranking of 8 corresponds to the lowest average pollutant loading for the pollutant. Ranking of the average of individual rankings for each land use category provides an overall ranking assuming equal weighting of each pollutant. A ranking of land use by pollutant concentration is not presented because the concentration data by land use was used as input data. As shown in the above tables, single-family residential contribute approximately 50 percent of the annual load of the oxygen demand and nutrient pollutants. The single family land use also ranks first in annual loads of metals. This does not mean that single family residential areas have a higher concentration of metals, but instead that, given the large amount of residential area in the Santa Monica Bay area, it contributes the most runoff. The modeling results also show that the largest load of TSS comes from open areas, and the biggest contribution of oil and grease is from the multi-family and commercial areas. The overall ranking shows that residential areas and open areas contribute the largest loads to Santa Monica Bay. These results may be misleading however, unless one considers the fact that these two land uses comprise 90 percent of the total watershed and contribute 82 percent of the total runoff.

Table 18. Annual Pollutant Loadings of Santa Monica Bay Drainage Basins by Land Use.

DRAINAGE		POLLUTANT LOADINGS (POUNDS PER YEAR)										
BASIN	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Basin 01	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,313,129	5,360	254,586	1,393.52	375.18	7,503.59	3,885.79	147.39	375.18	1,179.14	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	1,313,129	5,360	254,586	1,393.52	375.18	7,503.59	3,885.79	147.39	375.18	1,179.14	0
Basin 02	Single-family	15,647	917	7,554	45.86	13.49	232.01	99.82	5.13	18.88	18.88	162
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	9,023	644	5,586	26.64	5.59	103.12	42.97	4.30	18.90	16.33	945
	Open	207,594	847	40,248	220.30	59.31	1,186.25	614.31	23.30	59.31	186.41	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Basin Total	232,474	2,424	53,517	293.43	78.52	1,523.78	758.09	32.82	97.54	222.00	1,129
Basin 03	Single-family	19,704	1,155	9,512	57.75	16.99	292.17	125.70	6.45	23.78	23.78	204
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	3,147	225	1,948	9.29	1.95	35.97	14.99	1.50	6.59	5.70	330
	Open	162,060	661	31,420	171.98	46.30	926.06	479.57	18.19	46.30	145.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	184,912	2,041	42,881	239.03	65.24	1,254.20	620.25	26.14	76.68	175.00	534
Basin 04	Single-family	15,068	883	7,274	44.16	12.99	223.42	96.12	4.94	18.19	18.19	156
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	173,811	709	33,698	184.45	49.66	993.20	514.34	19.51	49.66	156.08	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Basin Total	189,089	1,608	41,102	229.24	62.78	1,219.02	611.46	24.55	68.29	174.64	178
Basin 05	Single-family	43,755	2,565	21,123	128.25	37.72	648.78	279.13	14.33	52.81	52.81	453
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	289,358	1,181	56,100	307.07	82.67	1,653.48	856.26	32.48	82.67	259.83	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	333,113	3,746	77,223	435.32	120.39	2,302.26	1,135.39	46.81	135.48	312.64	453
Basin 06	Single-family	227,758	13,351	109,952	667.57	196.34	3,377.10	1,452.94	74.61	274.88	274.88	2,356
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	32,734	2,546	16,367	78.20	32.73	363.71	218.23	13.09	40.92	126.21	4,001
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,059,022	4,323	205,321	1,123.86	302.58	6,051.55	3,133.84	118.87	302.58	950.96	0
	Unknown	4,616	330	2,858	13.63	2.86	52.76	21.98	2.20	9.67	8.35	484
	Basin Total	1,324,130	20,550	334,497	1,883.25	534.51	9,845.12	4,826.99	208.77	628.05	1,360.40	6,841

Table 18. Annual Pollutant Loadings of Santa Monica Bay Drainage Basins by Land Use (cont'd).

DRAINAGE		POLLUTANT LOADINGS (POUNDS PER YEAR)										
BASIN	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Basin 07	Single-family	165,747	9,716	80,016	485.81	142.89	2,457.63	1,057.35	54.30	200.04	200.04	1,715
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	22,122	1,721	11,061	52.85	22.12	245.80	147.48	8.85	27.65	85.29	2,704
	Public	58,273	4,532	29,137	139.21	58.27	647.48	388.49	23.31	72.84	224.68	7,122
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	991,456	4,047	192,221	1,052.16	283.27	5,665.46	2,933.90	111.29	283.27	890.29	0
	Unknown	6,085	435	3,767	17.97	3.77	69.54	28.98	2.90	12.75	11.01	637
	Basin Total	1,243,684	20,451	316,202	1,747.99	510.32	9,085.93	4,556.20	200.64	596.56	1,411.31	12,178
Basin 08	Single-family	255,865	14,999	123,521	749.95	220.57	3,793.86	1,632.24	83.82	308.80	308.80	2,647
	Multi-family	4,616	330	2,858	13.63	2.86	52.76	21.98	2.20	9.67	8.35	484
	Commercial	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Public	2,698	210	1,349	6.44	2.70	29.98	17.99	1.08	3.37	10.40	330
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	396,582	1,619	76,888	420.86	113.31	2,266.19	1,173.56	44.51	113.31	356.11	0
	Unknown	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Basin Total	662,699	17,383	206,135	1,198.14	342.22	6,175.56	2,864.56	132.82	439.18	694.14	3,812
Basin 09	Single-family	64,618	3,788	31,195	189.40	55.71	958.13	412.22	21.17	77.99	77.99	668
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	317,756	1,297	61,606	337.21	90.79	1,815.75	940.30	35.67	90.79	285.33	0
	Unknown	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Basin Total	382,794	5,115	93,060	527.85	146.75	2,778.68	1,354.52	57.03	169.65	364.08	712
Basin 10	Single-family	35,931	2,106	17,346	105.32	30.98	532.77	229.22	11.77	43.37	43.37	372
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	626,698	2,558	121,503	665.07	179.06	3,581.13	1,854.52	70.34	179.06	562.75	0
	Unknown	1,049	75	649	3.10	0.65	11.99	5.00	0.50	2.20	1.90	110
	Basin Total	663,679	4,739	139,498	773.48	210.68	4,125.90	2,088.73	82.61	224.62	608.01	482
Basin 11	Single-family	83,743	4,909	40,428	245.45	72.19	1,241.71	534.22	27.43	101.07	101.07	866
	Multi-family	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Commercial	9,532	741	4,766	22.77	9.53	105.92	63.55	3.81	11.92	36.75	1,165
	Public	74,460	5,791	37,230	177.88	74.46	827.34	496.40	29.78	93.08	287.09	9,101
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	636,001	2,596	123,306	674.94	181.71	3,634.29	1,882.04	71.39	181.71	571.10	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	804,366	14,083	206,120	1,122.90	338.29	5,816.44	2,979.21	132.72	389.09	997.15	11,198
Basin 12	Single-family	2,268,594	132,987	1,095,183	6,649.33	1,955.68	33,637.77	14,472.06	743.16	2,737.96	2,737.96	23,468
	Multi-family	150,240	10,731	93,006	443.56	93.01	1,717.03	715.43	71.54	314.79	271.86	15,739
	Commercial	197,482	15,360	98,741	471.76	197.48	2,194.24	1,316.55	78.99	246.85	761.40	24,137
	Public	142,446	11,079	71,223	340.29	142.45	1,582.73	949.64	56.98	178.06	549.21	17,410
	Light Industrial	198,921	15,472	99,460	475.20	198.92	2,210.23	1,326.14	79.57	248.65	766.95	24,313
	Other Urban	580,815	41,487	359,552	1,714.79	359.55	6,637.89	2,765.79	276.58	1,216.95	1,051.00	60,847
	Open	11,074,933	45,204	2,147,181	11,752.99	3,164.27	63,285.33	32,772.76	1,243.10	3,164.27	9,944.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	14,613,430	272,319	3,964,346	21,847.92	6,111.36	111,265.22	54,318.36	2,549.93	8,107.52	16,083.22	165,914

Table 18. Annual Pollutant Loadings of Santa Monica Bay Drainage Basins by Land Use (cont'd).

DRAINAGE		POLLUTANT LOADINGS (POUNDS PER YEAR)										
BASIN	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Basin 13	Single-family	120,543	7,066	58,193	353.32	103.92	1,787.37	768.98	39.49	145.48	145.48	1,247
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	290,338	1,185	56,290	308.11	82.95	1,659.07	859.16	32.59	82.95	260.71	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	410,881	8,251	114,483	661.43	186.87	3,446.44	1,628.15	72.08	228.44	406.19	1,247
Basin 14	Single-family	169,804	9,954	81,974	497.70	146.38	2,517.78	1,083.23	55.63	204.94	204.94	1,757
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	8,633	671	4,317	20.62	8.63	95.92	57.55	3.45	10.79	33.29	1,055
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	450,929	1,841	87,425	478.54	128.84	2,576.74	1,334.38	50.61	128.84	404.92	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	629,366	12,466	173,716	996.86	283.85	5,190.44	2,475.17	109.69	344.56	643.14	2,812
Basin 15	Single-family	22,892	1,342	11,051	67.10	19.73	339.43	146.03	7.50	27.63	27.63	237
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	299,150	1,221	57,999	317.47	85.47	1,709.43	885.24	33.58	85.47	268.62	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	322,042	2,563	69,050	384.56	105.21	2,048.86	1,031.27	41.08	113.10	296.25	237
Basin 16	Single-family	623,581	36,555	301,039	1,827.74	537.57	9,246.20	3,978.02	204.28	752.60	752.60	6,451
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,106,783	8,599	408,458	2,235.77	601.94	12,038.76	6,234.36	236.48	601.94	1,891.81	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	2,730,364	45,154	709,497	4,063.51	1,139.51	21,284.96	10,212.37	440.75	1,354.54	2,644.40	6,451
Basin 17	Single-family	236,740	13,878	114,288	693.89	204.09	3,510.29	1,510.24	77.55	285.72	285.72	2,449
	Multi-family	24,970	1,784	15,458	73.72	15.46	285.37	118.90	11.89	52.32	45.18	2,616
	Commercial	6,295	490	3,147	15.04	6.29	69.94	41.97	2.52	7.87	24.27	769
	Public	19,065	1,483	9,532	45.54	19.06	211.83	127.10	7.63	23.83	73.51	2,330
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	66,517	4,751	41,177	196.38	41.18	760.19	316.75	31.67	139.37	120.36	6,968
	Open	707,973	2,890	137,260	751.32	202.28	4,045.56	2,095.02	79.47	202.28	635.73	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	1,061,560	25,275	320,863	1,775.90	488.36	8,883.19	4,209.98	210.73	711.39	1,184.78	15,133
Basin 18	Single-family	330,336	19,364	159,472	968.22	284.77	4,898.08	2,107.31	108.21	398.68	398.68	3,417
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	1,978	154	989	4.73	1.98	21.98	13.19	0.79	2.47	7.63	242
	Public	13,309	1,035	6,655	31.79	13.31	147.88	88.73	5.32	16.64	51.31	1,627
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	11,331	809	7,014	33.45	7.01	129.50	53.96	5.40	23.74	20.50	1,187
	Open	287,400	1,173	55,720	305.00	82.11	1,642.29	850.47	32.26	82.11	258.07	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	644,354	22,536	229,851	1,343.19	389.19	6,839.72	3,113.66	151.98	523.65	736.20	6,473

Table 18. Annual Pollutant Loadings of Santa Monica Bay Drainage Basins by Land Use (cont'd).

DRAINAGE		POLLUTANT LOADINGS (POUNDS PER YEAR)										
BASIN	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Basin 19	Single-family	914,798	53,626	441,626	2,681.30	788.62	13,564.24	5,835.78	299.68	1,104.07	1,104.07	9,463
	Multi-family	12,590	899	7,794	37.17	7.79	143.88	59.95	6.00	26.38	22.78	1,319
	Commercial	24,820	1,930	12,410	59.29	24.82	275.78	165.47	9.93	31.03	95.70	3,034
	Public	11,331	881	5,665	27.07	11.33	125.90	75.54	4.53	14.16	43.69	1,385
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	23,501	1,679	14,548	69.38	14.55	268.58	111.91	11.19	49.24	42.53	2,462
	Open	1,413,988	5,771	274,141	1,500.56	404.00	8,079.93	4,184.25	158.71	404.00	1,269.70	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	2,401,028	64,787	756,185	4,374.78	1,251.11	22,458.32	10,432.90	490.03	1,628.87	2,578.46	17,663
Basin 20	Single-family	1,367,415	80,159	660,131	4,007.94	1,178.81	20,275.47	8,723.17	447.95	1,650.33	1,650.33	14,146
	Multi-family	637,050	45,504	394,364	1,880.81	394.36	7,280.57	3,033.57	303.36	1,334.77	1,152.76	66,739
	Commercial	209,173	16,269	104,586	499.69	209.17	2,324.14	1,394.48	83.67	261.47	806.48	25,566
	Public	75,180	5,847	37,590	179.60	75.18	835.33	501.20	30.07	93.97	289.86	9,189
	Light Industrial	8,273	643	4,137	19.76	8.27	91.93	55.16	3.31	10.34	31.90	1,011
	Other Urban	75,959	5,426	47,022	224.26	47.02	868.10	361.71	36.17	159.15	137.45	7,958
	Open	265,368	1,083	51,449	281.61	75.82	1,516.39	785.27	29.79	75.82	238.29	0
	Unknown	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Basin Total	2,638,837	154,961	1,299,540	7,094.92	1,988.90	33,196.72	14,856.56	934.51	3,586.73	4,307.82	124,651
Basin 21	Single-family	10,980,469	643,683	5,300,916	32,184.13	9,465.92	162,813.84	70,047.82	3,597.05	13,252.29	13,252.29	113,591
	Multi-family	4,663,516	333,108	2,886,939	13,768.48	2,886.94	53,297.33	22,207.22	2,220.72	9,771.18	8,438.74	488,559
	Commercial	2,316,725	180,190	1,158,363	5,534.40	2,316.73	25,741.39	15,444.83	926.69	2,895.91	8,932.26	283,155
	Public	684,172	53,213	342,086	1,634.41	684.17	7,601.91	4,561.15	273.67	855.22	2,637.86	83,621
	Light Industrial	1,141,546	88,787	570,773	2,727.03	1,141.55	12,683.84	7,610.31	456.62	1,426.93	4,401.29	139,522
	Other Urban	923,261	65,947	571,542	2,725.82	571.54	10,551.55	4,396.48	439.65	1,934.45	1,670.66	96,723
	Open	1,452,667	5,929	281,640	1,541.61	415.05	8,300.95	4,298.71	163.05	415.05	1,304.44	0
	Unknown	116,876	8,348	72,352	345.06	72.35	1,335.73	556.55	55.66	244.88	211.49	12,244
	Basin Total	22,279,232	1,379,206	11,184,610	60,460.93	17,554.25	282,326.56	129,123.07	8,133.11	30,795.90	40,849.04	1,217,415
Basin 21	Single-family	12,924,232	757,627	6,239,285	37,881.37	11,141.58	191,635.17	82,447.69	4,233.80	15,598.21	15,598.21	133,699
	Multi-family	5,508,719	393,480	3,410,160	16,263.84	3,410.16	62,956.79	26,232.00	2,623.20	11,542.08	9,968.16	577,104
	Commercial	2,671,041	207,748	1,335,521	6,380.82	2,671.04	29,678.24	17,806.94	1,068.42	3,338.80	10,298.35	326,461
	Public	1,073,021	83,457	536,510	2,563.33	1,073.02	11,922.45	7,153.47	429.21	1,341.28	4,137.09	131,147
	Light Industrial	1,298,920	101,027	649,460	3,102.98	1,298.92	14,432.44	8,659.47	519.57	1,623.65	5,008.06	158,757
	Other Urban	1,129,106	80,650	698,970	3,333.55	698.97	12,904.07	5,376.70	537.67	2,365.75	2,043.14	118,287
	Open	2,253,176	9,197	436,840	2,391.13	643.76	12,875.29	6,667.56	252.91	643.76	2,023.26	0
	Unknown	116,876	8,348	72,352	345.06	72.35	1,335.73	556.55	55.66	244.88	211.49	12,244
	Basin Total	26,975,093	1,641,535	13,379,098	72,262.07	21,009.81	337,740.19	154,900.38	9,720.43	36,698.41	49,287.76	1,457,699
Basin 22	Single-family	441,317	25,870	213,049	1,293.51	380.45	6,543.66	2,815.30	144.57	532.62	532.62	4,565
	Multi-family	39,868	2,848	24,680	117.71	24.68	455.64	189.85	18.98	83.53	72.14	4,177
	Commercial	44,424	3,455	22,212	106.13	44.42	493.60	296.16	17.77	55.53	171.28	5,430
	Public	52,518	4,085	26,259	125.46	52.52	583.53	350.12	21.01	65.65	202.49	6,419
	Light Industrial	8,633	671	4,317	20.62	8.63	95.92	57.55	3.45	10.79	33.29	1,055
	Other Urban	729,376	52,098	451,518	2,153.40	451.52	8,335.73	3,473.22	347.32	1,528.22	1,319.82	76,411
	Open	102,818	420	19,934	109.11	29.38	587.53	304.26	11.54	29.38	92.33	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	1,418,954	89,447	761,970	3,925.94	991.60	17,095.61	7,486.46	564.65	2,305.72	2,423.97	98,056
Basin 23	Single-family	51,289	3,007	24,760	150.33	44.21	760.49	327.19	16.80	61.90	61.90	531
	Multi-family	6,505	465	4,027	19.20	4.03	74.34	30.98	3.10	13.63	11.77	681
	Commercial	11,691	909	5,845	27.93	11.69	129.90	77.94	4.68	14.61	45.07	1,429
	Public	2,878	224	1,439	6.87	2.88	31.97	19.18	1.15	3.60	11.10	352
	Light Industrial	37,230	2,896	18,615	88.94	37.23	413.67	248.20	14.89	46.54	143.54	4,550
	Other Urban	402,668	28,762	249,270	1,188.83	249.27	4,601.92	1,917.46	191.75	843.68	728.64	42,184
	Open	12,730	52	2,468	13.51	3.64	72.74	37.67	1.43	3.64	11.43	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	524,990	36,314	306,425	1,495.61	352.95	6,085.03	2,658.62	233.79	987.60	1,013.45	49,727

Table 18. Annual Pollutant Loadings of Santa Monica Bay Drainage Basins by Land Use (cont'd).

DRAINAGE		POLLUTANT LOADINGS (POUNDS PER YEAR)										
BASIN	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Basin 24	Single-family	603,877	35,400	291,527	1,769.98	520.58	8,954.03	3,852.32	197.82	728.82	728.82	6,247
	Multi-family	44,904	3,207	27,798	132.57	27.80	513.19	213.83	21.38	94.08	81.25	4,704
	Commercial	52,878	4,113	26,439	126.32	52.88	587.53	352.52	21.15	66.10	203.87	6,463
	Public	48,381	3,763	24,191	115.58	48.38	537.57	322.54	19.35	60.48	186.54	5,913
	Light Industrial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Other Urban	3,777	270	2,338	11.15	2.34	43.17	17.99	1.80	7.91	6.83	396
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	761,340	46,797	373,806	2,163.83	654.26	10,679.45	4,782.12	262.40	959.71	1,214.60	23,745
Basin 25	Single-family	809,612	47,460	390,847	2,373.00	697.94	12,004.59	5,164.76	265.22	977.12	977.12	8,375
	Multi-family	147,512	10,537	91,317	435.51	91.32	1,685.85	702.44	70.24	309.07	266.93	15,454
	Commercial	70,863	5,512	35,432	169.28	70.86	787.37	472.42	28.35	88.58	273.22	8,661
	Public	113,669	8,841	56,834	271.54	113.67	1,262.99	757.79	45.47	142.09	438.26	13,893
	Light Industrial	4,676	364	2,338	11.17	4.68	51.96	31.18	1.87	5.85	18.03	572
	Other Urban	66,936	4,781	41,437	197.62	41.44	764.99	318.74	31.87	140.25	121.12	7,012
	Open	14,688	60	2,848	15.59	4.20	83.93	43.47	1.65	4.20	13.19	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	1,227,957	77,554	621,053	3,473.72	1,024.10	16,641.68	7,490.80	444.67	1,667.15	2,107.86	53,967
Basin 26	Single-family	990,137	58,043	477,997	2,902.13	853.57	14,681.35	6,316.39	324.36	1,194.99	1,194.99	10,243
	Multi-family	65,677	4,691	40,657	193.90	40.66	750.60	312.75	31.27	137.61	118.84	6,880
	Commercial	20,504	1,595	10,252	48.98	20.50	227.82	136.69	8.20	25.63	79.05	2,506
	Public	41,906	3,259	20,953	100.11	41.91	465.63	279.38	16.76	52.38	161.57	5,122
	Light Industrial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	112,610	460	21,833	119.50	32.17	643.48	333.23	12.64	32.17	101.12	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	1,236,050	68,453	574,300	3,377.09	994.02	16,826.83	7,413.21	395.32	1,449.31	1,675.69	25,389
Basin 27	Single-family	421,612	24,715	203,537	1,235.76	363.46	6,251.49	2,689.60	138.11	508.84	508.84	4,362
	Multi-family	21,823	1,559	13,509	64.43	13.51	249.40	103.92	10.39	45.72	39.49	2,286
	Commercial	21,583	1,679	10,791	51.56	21.58	239.81	143.88	8.63	26.98	83.21	2,638
	Public	21,223	1,651	10,612	50.70	21.22	235.81	141.49	8.49	26.53	81.83	2,594
	Light Industrial	7,194	560	3,597	17.19	7.19	79.94	47.96	2.88	8.99	27.74	879
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	243,825	995	47,272	258.75	69.66	1,393.28	721.52	27.37	69.66	218.94	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	737,260	31,158	289,318	1,678.39	496.63	8,449.73	3,848.37	195.87	686.73	960.05	12,759
Basin 28	Single-family	304,836	17,870	147,162	893.48	262.79	4,519.98	1,944.64	99.86	367.91	367.91	3,153
	Multi-family	12,170	869	7,534	35.93	7.53	139.09	57.95	5.80	25.50	22.02	1,275
	Commercial	4,496	350	2,248	10.74	4.50	49.96	29.98	1.80	5.62	17.34	550
	Public	16,187	1,259	8,094	38.67	16.19	179.86	107.91	6.47	20.23	62.41	1,978
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	36,721	2,623	22,732	108.41	22.73	419.66	174.86	17.49	76.94	66.45	3,847
	Open	124,360	508	24,111	131.97	35.53	710.63	368.01	13.96	35.53	111.67	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Basin Total	498,771	23,478	211,880	1,219.21	349.27	6,019.18	2,683.35	145.37	531.73	647.79	10,803

Table 19. Annual Pollutant Loadings of Santa Monica Bay Watershed by Land Use.

LAND USE	POLLUTANT LOADINGS (POUNDS PER YEAR)										
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Single-family	23,529,451	1,379,313	11,359,045	68,966	20,284	348,885	150,102	7,708	28,398	28,398	243,408
Multi-family	6,677,274	476,948	4,133,551	19,714	4,134	76,312	31,797	3,180	13,990	12,083	699,524
Commercial	3,371,401	262,220	1,685,700	8,054	3,371	37,460	22,476	1,349	4,214	12,999	412,060
Public	1,807,913	140,615	903,956	4,319	1,808	20,088	12,053	723	2,260	6,971	220,967
Light Industrial	1,569,244	122,052	784,622	3,749	1,569	17,436	10,462	628	1,962	6,050	191,796
Other Urban	3,138,877	224,205	1,943,114	9,267	1,943	35,873	14,947	1,495	6,577	5,680	328,835
Open	25,941,880	105,885	5,029,548	27,530	7,412	148,239	76,767	2,912	7,412	23,295	0
Unknown	130,306	9,308	80,665	385	81	1,489	621	62	273	236	13,651
Watershed Total	66,166,345	2,720,547	25,920,202	141,983	40,602	685,782	319,223	18,056	65,085	95,710	2,110,241

LAND USE	PERCENTAGE OF ANNUAL POLLUTANT LOADINGS										
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Single-family	35.6	50.7	43.8	48.6	50.0	50.9	47.0	42.7	43.6	29.7	11.5
Multi-family	10.1	17.5	15.9	13.9	10.2	11.1	10.0	17.6	21.5	12.6	33.1
Commercial	5.1	9.6	6.5	5.7	8.3	5.5	7.0	7.5	6.5	13.6	19.5
Public	2.7	5.2	3.5	3.0	4.5	2.9	3.8	4.0	3.5	7.3	10.5
Light Industrial	2.4	4.5	3.0	2.6	3.9	2.5	3.3	3.5	3.0	6.3	9.1
Other Urban	4.7	8.2	7.5	6.5	4.8	5.2	4.7	8.3	10.1	5.9	15.6
Open	39.2	3.9	19.4	19.4	18.3	21.6	24.0	16.1	11.4	24.3	0.0
Unknown	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.2	0.6
Watershed Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

LAND USE	UNIT AERIAL POLLUTANT LOADINGS (KG/HA/YR)										
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
Single-family	376	22	181	1.10	0.32	5.57	2.40	0.12	0.45	0.45	4
Multi-family	405	29	251	1.19	0.25	4.62	1.93	0.19	0.85	0.73	42
Commercial	446	35	223	1.06	0.45	4.95	2.97	0.18	0.56	1.72	54
Public	390	30	195	0.93	0.39	4.33	2.60	0.16	0.49	1.50	48
Light Industrial	440	34	220	1.05	0.44	4.88	2.93	0.18	0.55	1.69	54
Other Urban	429	31	265	1.27	0.27	4.90	2.04	0.20	0.90	0.78	45
Open	194	1	38	0.21	0.06	1.11	0.57	0.02	0.06	0.17	0
Unknown	368	26	228	1.09	0.23	4.20	1.75	0.18	0.77	0.67	39
Watershed Total	280	11	110	0.60	0.17	2.90	1.35	0.08	0.28	0.40	9

Table 20. Land Use Pollutant Loading Ranking.

LAND USE	RANKING BASED ON POLLUTANT LOADINGS *											Overall Ranking
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease	
Single-family	2	1	1	1	1	1	1	1	1	1	4	1
Multi-family	3	2	3	3	3	3	3	2	2	4	1	2
Commercial	4	3	5	5	4	4	4	5	5	3	2	4
Public	6	5	6	6	6	6	6	6	6	5	5	6
Light Industrial	7	6	7	7	7	7	7	7	7	6	6	7
Other Urban	5	4	4	4	5	5	5	4	4	7	3	5
Open	1	7	2	2	2	2	2	3	3	2	8	3
Unknown	8	8	8	8	8	8	8	8	8	8	7	8

* 1=highest mass loading; 8=lowest mass loading.

3.2 SUMMARY BY DRAINAGE BASIN

Tables 21 through 23 summarize results of the pollutant loadings model for each drainage basin. These tables report the results in pounds per year, percentage of total loadings, and average pollutant concentrations in milligrams per liter (mg/L).

In a fashion similar to the summary by land uses, a ranking of the drainage basins was developed using both average annual pollutant loadings and concentrations. The results are given in Tables 24 and 25. For this ranking, a ranking of 1 corresponds to the highest average annual loading (or concentration) for a given pollutant and a ranking of 28 corresponds to the lowest average annual loading (or concentration) for the pollutant. As shown in Table 24, the two largest drainage basins (12 - Malibu Creek and 21- Ballona Creek) contribute the largest pollutant loads to Santa Monica Bay (about 65 percent when combined). It should be noted however, that these two basins also contribute approximately 67 percent of the total runoff. When looking at the pollutant concentrations, calculated as the load divided by the total runoff, these two basins rank 8th and 18th respectively. A closer inspection of the concentration rankings (Table 25) reveals that drainage basins 24 through 28, in the urbanized southern section of the watershed, have the highest average annual pollutant concentrations, whereas drainage basins 1 through 5, in the undeveloped northern section of the watershed, have the lowest concentrations.

Table 26 is a comparison of the loads model for Ballona and Malibu Creeks in the State of the Bay report and this loads model. The Ballona Creek comparison shows that the model predicts higher pollutant mass loads to the Bay at reduced flow rates. This discrepancy is possibly a result of the fact that the State of the Bay model used concentration data which was an average of wet weather and dry weather data. The one exception to this would be the lead value which is approximately an order of magnitude higher.

The Malibu creek comparison shows that the flows used in the model are approximately 74 percent lower than the flow used in the State of the Bay report. As a result, it is very difficult to compare the results of the two models. The comparison would tend to suggest, however, that the BOD, COD, and copper data are approximately equal and that the lead and zinc data are high. Oil and Grease data was not presented for Malibu Creek in the State of the Bay report. The model results would not predict flow contributions from any point sources on either Ballona or Malibu Creek. The possible contributions to both flow rates are reported in Section 4.

3.3 SOURCES OF UNCERTAINTY

The average pollutant loading estimates presented above are based on limited data and should be viewed as preliminary. Actual pollutant loadings are anticipated to be highly variable. Factors influencing actual pollutant loadings include:

- Number and intensity of storms
- Length of dry period before storms
- Land use characteristics
- Basin activities including construction and accidental spills

Table 21. Annual Pollutant Loadings from Santa Monica Bay Watershed.

DRAINAGE		POLLUTANT LOADINGS (POUNDS PER YEAR)									
BASIN	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
01	1,313,129	5,360	254,586	1,394	375	7,504	3,886	147	375	1,179	0
02	232,474	2,424	53,517	293	79	1,524	758	33	98	222	1,129
03	184,912	2,041	42,881	239	65	1,254	620	26	77	175	534
04	189,089	1,608	41,102	229	63	1,219	611	25	68	175	178
05	333,113	3,746	77,223	435	120	2,302	1,135	47	135	313	453
06	1,324,130	20,550	334,497	1,883	535	9,845	4,827	209	628	1,360	6,841
07	1,243,684	20,451	316,202	1,748	510	9,086	4,556	201	597	1,411	12,178
08	662,699	17,383	206,135	1,198	342	6,176	2,865	133	439	694	3,812
09	382,794	5,115	93,060	528	147	2,779	1,355	57	170	364	712
10	663,679	4,739	139,498	773	211	4,126	2,089	83	225	608	482
11	804,366	14,083	206,120	1,123	338	5,816	2,979	133	389	997	11,198
12	14,613,430	272,319	3,964,346	21,848	6,111	111,265	54,318	2,550	8,108	16,083	165,914
13	410,881	8,251	114,483	661	187	3,446	1,628	72	228	406	1,247
14	629,366	12,466	173,716	997	284	5,190	2,475	110	345	643	2,812
15	322,042	2,563	69,050	385	105	2,049	1,031	41	113	296	237
16	2,730,364	45,154	709,497	4,064	1,140	21,285	10,212	441	1,355	2,644	6,451
17	1,061,560	25,275	320,863	1,776	488	8,883	4,210	211	711	1,185	15,133
18	644,354	22,536	229,851	1,343	389	6,840	3,114	152	524	736	6,473
19	2,401,028	64,787	756,185	4,375	1,251	22,458	10,433	490	1,629	2,578	17,663
20	2,638,837	154,961	1,299,540	7,095	1,989	33,197	14,857	935	3,587	4,308	124,651
21	26,975,093	1,641,535	13,379,098	72,262	21,010	337,740	154,900	9,720	36,698	49,288	1,457,699
22	1,418,954	89,447	761,970	3,926	992	17,096	7,486	565	2,306	2,424	98,056
23	524,990	36,314	306,425	1,496	353	6,085	2,659	234	988	1,013	49,727
24	761,340	46,797	373,806	2,164	654	10,679	4,782	262	960	1,215	23,745
25	1,227,957	77,554	621,053	3,474	1,024	16,642	7,491	445	1,667	2,108	53,967
26	1,236,050	68,453	574,300	3,377	994	16,827	7,413	395	1,449	1,676	25,389
27	737,260	31,158	289,318	1,678	497	8,450	3,848	196	687	960	12,759
28	498,771	23,478	211,880	1,219	349	6,019	2,683	145	532	648	10,803
Total	66,166,345	2,720,547	25,920,202	141,983	40,602	685,782	319,223	18,056	65,085	95,710	2,110,241

Table 22. Distribution of Pollutant Loadings from Santa Monica Bay Watershed.

DRAINAGE BASIN	PERCENTAGE OF ANNUAL POLLUTANT LOADINGS										
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
01	2.0	0.2	1.0	1.0	0.9	1.1	1.2	0.8	0.6	1.2	0.0
02	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1
03	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.0
04	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.0
05	0.5	0.1	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.0
06	2.0	0.8	1.3	1.3	1.3	1.4	1.5	1.2	1.0	1.4	0.3
07	1.9	0.8	1.2	1.2	1.3	1.3	1.4	1.1	0.9	1.5	0.6
08	1.0	0.6	0.8	0.8	0.8	0.9	0.9	0.7	0.7	0.7	0.2
09	0.6	0.2	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.0
10	1.0	0.2	0.5	0.5	0.5	0.6	0.7	0.5	0.3	0.6	0.0
11	1.2	0.5	0.8	0.8	0.8	0.8	0.9	0.7	0.6	1.0	0.5
12	22.1	10.0	15.3	15.4	15.1	16.2	17.0	14.1	12.5	16.8	7.9
13	0.6	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.1
14	1.0	0.5	0.7	0.7	0.7	0.8	0.8	0.6	0.5	0.7	0.1
15	0.5	0.1	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.0
16	4.1	1.7	2.7	2.9	2.8	3.1	3.2	2.4	2.1	2.8	0.3
17	1.6	0.9	1.2	1.3	1.2	1.3	1.3	1.2	1.1	1.2	0.7
18	1.0	0.8	0.9	0.9	1.0	1.0	1.0	0.8	0.8	0.8	0.3
19	3.6	2.4	2.9	3.1	3.1	3.3	3.3	2.7	2.5	2.7	0.8
20	4.0	5.7	5.0	5.0	4.9	4.8	4.7	5.2	5.5	4.5	5.9
21	40.8	60.3	51.6	50.9	51.7	49.2	48.5	53.8	56.4	51.5	69.1
22	2.1	3.3	2.9	2.8	2.4	2.5	2.3	3.1	3.5	2.5	4.6
23	0.8	1.3	1.2	1.1	0.9	0.9	0.8	1.3	1.5	1.1	2.4
24	1.2	1.7	1.4	1.5	1.6	1.6	1.5	1.5	1.5	1.3	1.1
25	1.9	2.9	2.4	2.4	2.5	2.4	2.3	2.5	2.6	2.2	2.6
26	1.9	2.5	2.2	2.4	2.4	2.5	2.3	2.2	2.2	1.8	1.2
27	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.0	0.6
28	0.8	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 23. Average Concentrations from Santa Monica Bay Watershed.

DRAINAGE		AVERAGE POLLUTANT CONCENTRATIONS (MG/L)									
BASIN	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
01	490	2	95	0.520	0.140	2.800	1.450	0.055	0.140	0.440	0
02	446	5	103	0.563	0.151	2.921	1.453	0.063	0.187	0.426	2
03	447	5	104	0.578	0.158	3.032	1.499	0.063	0.185	0.423	1
04	464	4	101	0.562	0.154	2.990	1.500	0.060	0.168	0.428	0
05	449	5	104	0.587	0.162	3.105	1.531	0.063	0.183	0.422	1
06	420	7	106	0.598	0.170	3.125	1.532	0.066	0.199	0.432	2
07	405	7	103	0.569	0.166	2.959	1.484	0.065	0.194	0.460	4
08	380	10	118	0.687	0.196	3.540	1.642	0.076	0.252	0.398	2
09	438	6	107	0.604	0.168	3.182	1.551	0.065	0.194	0.417	1
10	471	3	99	0.549	0.150	2.931	1.484	0.059	0.160	0.432	0
11	391	7	100	0.546	0.165	2.829	1.449	0.065	0.189	0.485	5
12	396	7	107	0.592	0.166	3.015	1.472	0.069	0.220	0.436	4
13	408	8	114	0.656	0.185	3.418	1.615	0.071	0.227	0.403	1
14	405	8	112	0.642	0.183	3.341	1.593	0.071	0.222	0.414	2
15	467	4	100	0.558	0.153	2.972	1.496	0.060	0.164	0.430	0
16	423	7	110	0.630	0.177	3.300	1.583	0.068	0.210	0.410	1
17	374	9	113	0.626	0.172	3.130	1.484	0.074	0.251	0.418	5
18	346	12	123	0.720	0.209	3.668	1.670	0.082	0.281	0.395	3
19	374	10	118	0.682	0.195	3.502	1.627	0.076	0.254	0.402	3
20	257	15	126	0.690	0.193	3.229	1.445	0.091	0.349	0.419	12
21	247	15	122	0.661	0.192	3.089	1.417	0.089	0.336	0.451	13
22	237	15	127	0.656	0.166	2.858	1.252	0.094	0.385	0.405	16
23	215	15	126	0.613	0.145	2.495	1.090	0.096	0.405	0.416	20
24	263	16	129	0.748	0.226	3.692	1.653	0.091	0.332	0.420	8
25	251	16	127	0.710	0.209	3.400	1.531	0.091	0.341	0.431	11
26	285	16	133	0.779	0.229	3.884	1.711	0.091	0.335	0.387	6
27	316	13	124	0.719	0.213	3.622	1.649	0.084	0.294	0.411	5
28	302	14	128	0.738	0.211	3.642	1.624	0.088	0.322	0.392	7
Total	302	12	118	0.649	0.185	3.132	1.458	0.082	0.297	0.437	10

Table 24. Drainage Basin Ranking by Pollutant Loadings.

DRAINAGE BASIN	RANKING BASED ON POLLUTANT LOADINGS *											Overall Ranking
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease	
01	8	21	15	15	15	14	13	16	19	13	28	16
02	26	26	26	26	26	26	26	26	26	26	21	26
03	28	27	27	27	27	27	27	27	27	27	23	27
04	27	28	28	28	28	28	28	28	28	28	27	28
05	24	24	24	24	24	24	24	24	24	24	25	24
06	7	15	10	10	10	10	9	12	13	10	15	10
07	9	16	12	12	11	11	11	13	14	9	12	12
08	17	17	18	18	18	16	17	18	17	18	18	19
09	23	22	23	23	23	23	23	23	23	23	22	23
10	16	23	21	21	21	21	21	21	22	21	24	21
11	13	18	19	19	19	19	16	19	18	15	13	18
12	2	2	2	2	2	2	2	2	2	2	2	2
13	22	20	22	22	22	22	22	22	21	22	20	22
14	19	19	20	20	20	20	20	20	20	20	19	20
15	25	25	25	25	25	25	25	25	25	25	26	25
16	3	9	6	5	5	5	5	7	8	4	17	7
17	12	12	11	11	13	12	12	11	11	12	10	11
18	18	14	16	16	14	15	15	15	16	17	16	15
19	5	7	5	4	4	4	4	5	6	5	9	4
20	4	3	3	3	3	3	3	3	3	3	3	3
21	1	1	1	1	1	1	1	1	1	1	1	1
22	6	4	4	6	8	6	7	4	4	6	4	5
23	20	10	13	14	16	17	19	10	9	14	6	14
24	14	8	9	9	9	9	10	9	10	11	8	9
25	11	5	7	7	6	8	6	6	5	7	5	6
26	10	6	8	8	7	7	8	8	7	8	7	8
27	15	11	14	13	12	13	14	14	12	16	11	13
28	21	13	17	17	17	18	18	17	15	19	14	17

* 1=highest mass loading; 28=lowest mass loading.

Table 25. Drainage Basin Ranking by Pollutant Concentrations.

DRAINAGE BASIN	RANKING BASED ON AVERAGE POLLUTANT CONCENTRATIONS *											Overall Ranking
	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease	
01	1	28	28	28	28	27	23	28	28	4	28	28
02	7	24	23	23	25	24	22	24	22	11	18	25
03	6	23	21	21	22	18	16	22	23	12	20	22
04	4	25	24	24	23	20	15	25	25	10	25	24
05	5	22	20	20	21	16	13	23	24	13	24	21
06	10	20	19	18	15	15	12	18	18	7	17	17
07	13	19	22	22	17	22	18	19	19	2	13	20
08	16	12	11	8	7	6	5	12	12	25	16	9
09	8	21	18	17	16	13	11	20	20	17	23	19
10	2	27	27	26	26	23	19	27	27	6	27	27
11	15	18	25	27	20	26	24	21	21	1	10	23
12	14	16	17	19	19	19	21	16	16	5	12	18
13	11	14	13	12	11	8	8	14	14	23	21	12
14	12	15	15	13	12	10	9	15	15	19	19	13
15	3	26	26	25	24	21	17	26	26	9	26	26
16	9	17	16	14	13	11	10	17	17	21	22	16
17	18	13	14	15	14	14	20	13	13	16	11	14
18	19	10	9	4	6	3	2	10	10	26	14	6 (tie)
19	17	11	12	9	8	7	6	11	11	24	15	10
20	24	4	6	7	9	12	25	4	3	15	4	6 (tie)
21	26	5	10	10	10	17	26	7	5	3	3	8
22	27	6	4	11	18	25	27	2	2	22	2	11
23	28	7	7	16	27	28	28	1	1	18	1	15
24	23	1	2	2	2	2	3	6	7	14	6	1
25	25	2	5	6	5	9	14	5	4	8	5	3
26	22	3	1	1	1	1	1	3	6	28	8	2
27	20	9	8	5	3	5	4	9	9	20	9	5
28	21	8	3	3	4	4	7	8	8	27	7	4

* 1=highest concentration; 28=lowest concentration.

Table 26. Comparison of Model Results with the State of the Bay Report
(using 83-84 average data)

Parameter	State of the Bay	Model	Difference	Percent Difference
Ballona Creek				
Flow (Ac-Ft/yr)	56,750	40,200	-16,550	-29
BOD (lb/yr)	1,477,300	1,641,500	164,200	11
COD (lb/yr)	8,385,300	13,379,100	4,993,800	60
Copper (lb/yr)	4,900	9,700	4,800	98
Lead (lb/yr)	2,500	36,700	34,200	1,368
Zinc (lb/yr)	13,100	49,300	36,200	276
Oil and Grease (lb/yr)*	787,600	1,457,700	670,100	85
Malibu Creek				
Flow (Ac-Ft/yr)	52,700	13,570	-39,130	-74
BOD (lb/yr)	574,200	272,300	-301,900	-53
COD (lb/yr)	9,730,600	3,964,300	-5,766,300	-59
Copper (lb/yr)	3,100	2,550	-550	-18
Lead (lb/yr)	1,400	8,100	6,700	479
Zinc (lb/yr)	11,200	16,100	4,900	44

+ NPDES discharges are not included and may contribute as much as 1,600 and 7,8000 acre-ft/yr to the measured flows for Ballona and Malibu Creeks, respectively.

* only 1983 data available for oil and grease

Deviations of any of these factors from average conditions will result in variations in the annual pollutant loads. Factors specifically influencing the results for Santa Monica Bay include the following:

- Only storm flows were considered in the analyses; base flows, illicit connections, and illegal dumping may contribute to pollutants loads. Also, only storms with 0.1 inches of rain were considered in this study.
- Uneven rainfall patterns over a particular basin was estimated and based on catchment boundaries, i.e. uneven rainfall within a catchment was not considered.
- Existing BMPs were not considered; any water quality improvements due to these BMPs were not modeled.
- Flows and concentrations were based on typical values of percent imperviousness and runoff concentrations.
- The Santa Monica Bay water quality data was collected by grab samples whereas the NURP data used for comparison were collected as composite samples. Also, the NURP data were site median concentrations whereas the Santa Monica data were event median concentrations.
- The land use data was collected in 1987 and may no longer be valid in some areas. Also, for some of the categories such as Other Urban, which consists of urban areas not distinguishable by aerial photography, and Unknown percent impervious values were estimated.

Also, it should be noted that the pollutant concentration levels selected for this study are higher than values seen from other stormwater studies. The values selected for the model were based on the few data available for Santa Monica Bay. The concentration values should be adjusted after more extensive monitoring to better reflect actual pollutant runoff concentrations.

The impact of potential errors in the water quality parameter estimates, land use or area estimates, is linear. The model is linear in the parameters. Therefore a hypothetical 5% error in a water quality parameter would have a 5% error when the parameter is used in the model calculations.

4.0 COMPARISONS TO POINT SOURCES

It is interesting to compare the wet weather flow rates to the dry weather flow that results from permitted discharges. There are a number of permitted dischargers that are allowed to discharge their effluent directly into one or more storm drains. Two examples of allowable practices are the discharge of cooling tower blow-down or bleed-off (a portion of circulating cooling water is purposefully discharged and replaced with tap water to prevent salt build-up), and ground dewatering (pumping of shallow groundwater to prepare sites for construction. Normally these flows are not contaminated and are not thought to pose a problem. There is a concern that these low flows may flush accumulated materials in the storm drains to the ocean, or may mask an illegal discharge.

In order to determine the magnitude of permitted flows to storm drains, a database of the Los Angeles Regional Water Resources Control Board's permits was created. The database was then used to develop total discharge estimates. Table 27 shows the results of the database development. The maximum allowable flow to Ballona Creek, from these permits is approximately 1,410,000 gallons per day, or approximately 2.18 cu ft/sec. This flow rate is negligibly small during an average storm event (see Table 7) but can impact the overall yearly discharge. For Malibu Creek the permitted discharges may be as much as 15% of the flow measured in the State of the Bay report, or more than 50% of the predicted flows (model results).

The discharges represented in Table 27 are maximums. There may have been no discharge during the periods reviewed; the permit represents the maximum allowable discharge.

No comparisons to large treatment plant discharges (e.g. Hyperion) were made, since they were beyond the scope of this study. Such comparisons would be useful and could be helpful in determining the benefits of both increased treatment plant removal efficiency and stormwater best management practices.

Table 27. Summary of NPDES Permits to Stormwater Drains.

Permit Number	Permittee Name	Reporting Period	Average Flow Rate (gpd)	Average TSS Mass (lb/day)	Average BOD Mass (lb/day)	Average O&G Mass (lb/day)	Average Temp. (o F)	Discharge Type	Receiving Water	City
1786	Cochran (342)			NO REPORTS FILED				Groundwater dewatering	Ballona Creek	Los Angeles
52710	Fedral Employees Distributing Company	1/90 - 12/90	1,800	0.15	0.02	0.02	80	Cooling tower bleed off	Ballona Creek	Los Angeles
52809	Pacific Management Company	1/90 - 12/90	4,000				72	Cooling tower bleed off	Ballona Creek	Hollywood
53074	Rreef USA Fund II	1/90 - 12/90	1,000	0	0	0	70	Groundwater seepage	Ballona Creek	Los Angeles
53091	Mark Wishire Associates	1/90 - 12/90	2,350	0.82	0.31	0.03	70	Cooling tower bleed off	Ballona Creek	Los Angeles
53139	Culver City Unified School District	4Q 90	4,000	2.23	0	Not Reported	80	Backwash waste	Ballona Creek	Culver City
53163	Delta Towers Joint Venture	1/90 - 6/90	1,400		0.01	0.07	79	Subsoil drainage	Ballona Creek	Los Angeles
53163	Delta Towers Join Venture	1/90 - 12/90	1,400	0	0	0		Groundwater seepage	Ballona Creek	Los Angeles
53228	Cedars-Sinai Med.	1/90 - 11/90	50,000	0	0	0		Subsoil drainage	Ballona Creek	Los Angeles
53261	R & B Enterprises	1/90 - 12/90	900	0.21	0.66	0.64		Subsoil drainage	Ballona Creek	Los Angeles
53279	Wilshire Highland Bldg.	1/90	2,000	0.07	<0.033	<0.02	66	Subsoil drainage	Ballona Creek	Los Angeles
53287	Pine Realty - Gateway West	1/90 - 12/90	10,000	0	0	0		Groundwater seepage & reflect	Ballona Creek	Los Angeles
53490	Holiday Inns, Inc.	1/90 - 12/90	800	0.22	0.03		70	Swimming pool drainage	Ballona Creek	Los Angeles
53503	Coldwell Banker Real Estate Services	1/90 - 12/90	2,000	0.08	0.02	0.03	70	Subsoil drainage	Ballona Creek	Los Angeles
53503	Topa	1/90 - 12/90	2,000	0	0	0		Groundwater seepage	Ballona Creek	Los Angeles
53511	Howard David Ltd & Fatesh Bldng Mngmt Corp	1/90 - 12/90	900	0.11	0.15	0.03	75	Cooling tower bleed off	Ballona Creek	Los Angeles
53538	Nationwide Theatres	1/90 - 12/90	100	0	0	0		Cooling tower bleed & Subsoil drainage	Ballona Creek	Los Angeles
53996	City of Los Angeles	1/90 - 12/90	36,200	0	0	0		Cooling tower bleed off	Ballona Creek	Los Angeles
54101	City of Santa Monica	1/90 - 12/90	573,080	422.6			71	Plant backwash waste	Ballona Creek	Los Angeles
54127	Century Towers	1/90 - 12/90	-	NO DISCHARGE				Swimming pool drainage	Ballona Creek	Los Angeles
54305	Holiday Inns, Inc	1/90 - 12/90	500	0.02	0.01		75	Groundwater seepage, pool backwash	Ballona Creek	Hollywood
54453	University of Southern California	1/90 - 12/90	5,000				84	Backwash waste	Ballona Creek	Los Angeles
54861	Harbor Ins.	1/90 - 12/90	1,400					Cooling tower bleed & Subsoil drainage	Ballona Creek	Los Angeles
54887	Scottish Rite Cathedral Asso.	1/90 - 12/90	760	0	0	0		Cooling tower bleedoff	Ballona Creek	Los Angeles
54909	City of Inglewood	1/90 - 12/90		NO DISCHARGE				Vehicle wash water, service area rainfall	Ballona Creek	Inglewood
55361	Universal Properties, Inc.	4/90 - 6/90	1,800				76	Cooling tower bleed off	Ballona Creek	Beverly Hills
55409	The Salvation Army	7/90 - 12/90	20,000	0	0	Not Reported	80	Backwash waste	Ballona Creek	Los Angeles
55638	Westin Hotels, Inc	1/90 - 12/90	1,572	17.53	0.06		80	Backwash waste	Ballona Creek	Los Angeles
55786	Litton Industries	1/90 - 12/90	1,000	0.19	0.03	0.05	67	Groundwater, cooling water, fountain	Ballona Creek	Beverly Hills
56707	Great Western Savings & Loan	1/90 - 12/90	3,891	0	0	0		Grndwtr seepage, no additive	Ballona Creek	Beverly Hills

Table 27. Summary of NPDES Permits to Stormwater Drains (cont'd).

Permit Number	Permittee Name	Reporting Period	Average Flow Rate (gpd)	Average TSS Mass (lb/day)	Average BOD Mass (lb/day)	Average O&G Mass (lb/day)	Average Temp. (o F)	Discharge Type	Receiving Water	City
58297	Wilshire Blvd. Office Bldg.	1/90 - 12/90	2,000	0	0	0		G.water seepage, cooling-tower bleed.	Ballona Creek	Los Angeles
58602	City of Inglewood	1/90 - 12/90		NO DISCHARGE				Swimming pool drainage	Ballona Creek	Inglewood
59382	Realty Center Management	1/90 - 12/90	50,000	0	0	0		Groundwater seepage	Ballona Creek	Los Angeles
59404	Carolco Pictures	1/90 - 12/90	50,000	0	0	0	73	Cooling tower and groundwater	Ballona Creek	Los Angeles
59421	City of Beverly Hills	4/90 - 12/90	40,697	0	0	0	61	Groundwater seepage	Ballona Creek	Beverly Hills
59722	L.A. County Museum of Nat. History	1/90 - 3/90		NO DISCHARGE				Groundwater seepage, ponded rainfall	Ballona Creek	Los Angeles
59765	CoastFed Properties	2ndQ & 3rdQ 90	309	0	0	0		Groundwater seepage	Ballona Creek	Beverly Hills
59781	Museum Terrace Apartments	1/90 - 12/90	1,500	0.16	0.06	0.08	70	Subsoil drainage	Ballona Creek	Los Angeles
59803	Cal-Four Capital Thayer Associates	1/90 - 12/90	900	0.02	0.05	0.03	72	Groundwater waste	Ballona Creek	Los Angeles
59889	The Casden Company	1/90 - 12/90	65,000				64	Groundwater seepage	Ballona Creek	Los Angeles
60062	Masselin Manor Apartments	1/90 - 9/90	9,000	0.7	0.33	0.15	70	Groundwater seepage	Ballona Creek	Los Angeles
60062	Masseline Man.	1/90 - 12/90	9,000	0	0	0		Groundwater dewatering	Ballona Creek	Los Angeles
60143	Wilshire Westwood Associates	1/90 - 6/90	100	0.12			68	Subsoil drainage	Ballona Creek	Los Angeles
60143	Wilshire Westwood Asso.	1/90 - 12/90	100	0	0	0		Groundwater dewatering	Ballona Creek	Los Angeles
60186	Center for Early Education	1/90 - 12/90	75,000					Groundwater dewatering	Ballona Creek	Los Angeles
60259	Bracton Corporation	7/90 - 9/90					70	Groundwater waste	Ballona Creek	Los Angeles
60259	Hara Corp.	1/90 - 9/90	5,000	0	0	0		Groundwater dewatering	Ballona Creek	Los Angeles
60381	Lake View Mansion Partnership	1/90 - 12/90	100				74	Groundwater waste	Ballona Creek	Los Angeles
60411	Third and Fairfax Plaza Associates	10/90 - 12/90	15,053			0.01	73	Groundwater waste	Ballona Creek	Los Angeles
60542	Parkmile Asso.			NO DISCHARGE (PERMIT INACTIVE)				Treated groundwater during construction	Ballona Creek	Los Angeles
60623	Two Rodeo Asso.	12/90	36,000	0	0	0		Groundwater dewatering	Ballona Creek	Beverly Hills
60640	Huntley Drive Asso. (Sheldon M. Gordon)	1/90 - 12/90	5,000	0	ND	ND		Groundwater dewatering	Ballona Creek	Los Angeles
60658	Los Angeles Free Clinic	1/90 - 12/90	1stQ - 150	Not Reported		1stQ - <0.0063	60	Groundwater dewatering	Ballona Creek	Los Angeles
60763	Tracinda Corporation	1/90 - 12/90		Not Reported				Groundwater seepage	Ballona Creek	Beverly Hills
60763	MGM/UA Comm.	1/90 - 12/90	22,000	0.6411809	0.3975322	0.421347464		Groundwater seepage	Ballona Creek	Beverly Hills
60810	Dorchester	5/90 - 12/90	100,000	0	0	Not Reported		Groundwater - no additives	Ballona Creek	Los Angeles
60879	Westwood Gateway	1/90 - 11/90	23,110	Not Reported		<0.96		Treated groundwater from chlorinated org. solvent	Ballona Creek	Los Angeles
61115	Howard Hughes	1/90 - 11/90	7,200	Not Reported		0.24		Treated groundwater	Ballona Creek	Los Angeles
61123	Jan Development			NO DISCHARGE REPORTED					Ballona Creek	Los Angeles
61140	Jack Slomovic - 01	1/90 - 12/90	17,460	0	0	0		Groundwater dewatering	Ballona Creek	Los Angeles
61158	Jack Slomovic - 02	1/90 - 12/90	17,460	0	0	0		Groundwater - no additives	Ballona Creek	Los Angeles
61221	Abraham Moradzudeh Samshaou		6,952	NO DISCHARGE				-	Ballona Creek	Los Angeles

Table 27. Summary of NPDES Permits to Stormwater Drains (cont'd).

Permit Number	Permittee Name	Reporting Period	Average Flow Rate (gpd)	Average TSS Mass (lb/day)	Average BOD Mass (lb/day)	Average O&G Mass (lb/day)	Average Temp. (o F)	Discharge Type	Receiving Water	City
61239	Miracle Mile HR-Capital	6/90 - 12/90	2,200	0	0	0		Groundwater dewatering (treated)	Ballona Creek	Los Angeles
61247	Beverly Mercedes Place		6,978	NO DISCHARGE				-	Ballona Creek	Los Angeles
61263	Alvarado Grand Plaza		6,950	NO REPORTS				-	Ballona Creek	Los Angeles
61271	Project West Corp.	7/90 - 12/90	25,000	0	0	0		Groundwater dewatering	Ballona Creek	Los Angeles
61506	Ogden Ave. Asso.	1/90 - 9/90		NO DISCHARGE				Groundwater dewatering	Ballona Creek	Los Angeles
61531	WBM Partners Develop Corp.	7/90 - 9/90		NO DISCHARGE REPORTED				Groundwater dewatering	Ballona Creek	Los Angeles
61557	Hayworth Asso.	7/90 - 10/90		NO DISCHARGE REPORTED				Groundwater	Ballona Creek	Los Angeles
61603	Wilshire West Inc.	3rd & 4th Q 90	16,500	0	0	ND		Groundwater dewatering	Ballona Creek	Los Angeles
61662	Glenfed Develop.	8/90 - 12/90		NO DISCHARGE				Wastewater - underground drainage	Ballona Creek	Los Angeles
61735	CWD Detroit Asso.			NO RECORD OF DISCHARGE				Groundwater dewatering	Ballona Creek	Los Angeles
61743	CWD Clouedale Asso.			NO RECORD OF DISCHARGE				Groundwater dewatering	Ballona Creek	Los Angeles
61751	Peter Giorganni	1/90 - 9/90		NO DISCHARGE				Groundwater dewatering	Ballona Creek	Los Angeles
61808	Panglossian Asso.			NO REPORTS FILED				Groundwater dewatering	Ballona Creek	Los Angeles
61832	House Ear Institute	8/90 - 12/90	1,890					Groundwater waste	Ballona Creek	Los Angeles
61875	Westlake Kingston	4th Q 90	17,280	0	0	ND		Groundwater dewatering	Ballona Creek	Beverly Hills
61883	McGregor Co.	1/90 - 12/90		NO DISCHARGE				Groundwater dewatering	Ballona Creek	Los Angeles
61891	Clinton Partnership	7/90 - 12/90	33,120	0	0	0		Groundwater dewatering	Ballona Creek	Los Angeles
61948	S. Doheny HR-Capital	9/90 - 11/90	7,280	0	0	ND		Groundwater dewatering (Treated)	Ballona Creek	Los Angeles
62154	Clark Swall Ltd.		7,003	NO REPORTS FILED				Groundwater dewatering	Ballona Creek	Los Angeles
			1,412,995	445.87118	2.1375322	1.801347464				
56014	Las Virgenes MWD	1/90 - 12/90	7,000,000	0	0	0	78	Wastewater discharge	Malibu Creek	Malibu
53112	State Farm Auto Inc.	1/90 - 12/90	11,224	0	0	0	74	Cooling tower bleedoff	Malibu Creek	Westlake Village
			7,011,224	0	0	0				
60372	GBW Properties	1/90 - 12/90	2,462	Not Reported			0.04	Groundwater dewatering	Marina del rey	Marina del rey
54089	Windward Yacht & Repair			NO DATA SUBMITTED				Boat washing waste water	Marina d.r. Hbr	Marina del rey
57827	Stocker Resources (discharge in Feb, May only)	2/90 - 12/90	86,000 & 7,055	Not Reported			2.51 & 0.29		Centinela Creek	Inglewood
57657	L.A. County DWP-1	1/90 - 12/90		NO DISCHARGE						Los Angeles
57711	L.A. County DWP-2	1/90 - 12/90		NO DISCHARGE						Los Angeles

Table 27. Summary of NPDES Permits to Stormwater Drains (cont'd).

Permit Number	Permittee Name	Reporting Period	Average Flow Rate (gpd)	Average TSS Mass (lb/day)	Average BOD Mass (lb/day)	Average O&G Mass (lb/day)	Average Temp. (o F)	Discharge Type	Receiving Water	City
57771	L.A. County DWP-3,4	1/90 - 12/90		NO DISCHARGE						Los Angeles
58076	L.A. County DWP-8 (#11 & #14)	1/90 - 12/90	21,496 & 18,715	Not Reported		2.68 & 2.34	64	Control of Saltwater Intrusion	Pacific Ocean	Los Angeles
57894	L.A. County DWP-5	1/90 - 12/90		NO DISCHARGE						Los Angeles
57959	L.A. County DWP-6	1/90 - 12/90		NO DISCHARGE						Los Angeles
58017	L.A. County DWP-7	1/90 - 12/90		NO DISCHARGE						Los Angeles
61085	L.A. County DWP-9	1/90 - 12/90		NO DISCHARGE						Los Angeles
370	City of Los Angeles	1/90 - 12/90	290,909,091					Cooling tower runoff	SM Bay	Los Angeles
54615	Milton Meyer		5,881					Groundwater dewatering		
59412	Amir Devel.		6,688	3.62				Groundwater dewatering, seepage		
61352	Los Feliz Asso.									
61379	Unocal # 0981									
61425	Unocal # 1715									
60208	Unocal # 2325									
61468	Unocal # 0932									
61522	Arco Petroleum									
61611	L.A. County Medical Asso.									
60593	DMG. Ltd	3rd Q. 90	245,000	<0.1		0 <2.04				
59943	Pacific Design		6,755					Leaky tank		
60054	General Telephone									
60160	Wilshire Glendon							Leaky tank		
59617	General Telephone									
59706	Sunlin Corp.									
60402	Howard Hughes									
60771	American Home		6,853					Leaky tank		
60828	Texaco Refining									
60411	Third & Fairfax									
60488	Homart Devel.									
60674	Texaco Refining									
61107	Unocal # 1715									

5.0

CONCLUSIONS AND RECOMMENDATIONS

As noted in the introduction, estimates of the annual loads can be used to identify catchments with the largest expected pollutant loads, site stormwater quality monitoring stations, and select types of and locations for applying source control and structural BMPs. Estimates of the annual pollutant load of the cumulative discharges to waters of the United States are also required for Part 2 of the application for NPDES Stormwater Permits for municipalities. It should be noted, however, that areas which contribute a large quantity of runoff, often times are identified as being the largest pollutant load source. This is not an indication that the area is excessively polluted, just that it contributes a large quantity of stormwater to the receiving water body. This point becomes apparent when dealing with large open areas.

Based on the estimates of annual pollutant loads, the model shows that, overall, single-family residential areas contribute the largest loads of pollutants to the Bay. Again, this due to the large area that this land use makes up. However, higher concentrations of oxygen demand and nutrients are also associated with single-family residential areas. Therefore, public education and awareness about stormwater pollution may be considered as a Best Management Practice (BMP) for residential areas.

The loads model also shows that the urbanized South Bay and West Los Angeles drainage basins (20 through 28) have high loads as well as high concentrations of pollutants. These areas should also be targeted in the stormwater monitoring program and BMP design. Basin 21 (Ballona Creek) had the overall highest pollutant load ranking, although this can be misleading due to its size. Basins 24-28 had the highest 5 pollutant concentration rankings, in respective order. This indicates that these areas may require more structural and pollutant abatement oriented BMPs and should be considered candidates for early action BMP programs.

Beyond the general BMPs mentioned above an illicit discharge and illegal dumping elimination program should be considered for the highly urbanized basins.

Although some data are available, hydrologic and water quality data collected in the stormwater monitoring program should be used to update the estimates of annual pollutant loadings with site-specific data. A monitoring program that helps characterize the pollutant concentrations associated with the various land uses should be developed. Stream stations, which drain mixed land uses should also be monitored to help calibrate the model. A model such as this one is only as good as its input data, and the more data available for calibration the better. It is also recommended that the results of this model be used for comparison with and, where appropriate, to update the status and trends of pollutant loading to Santa Monica Bay.

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<u>Abbreviation</u>	<u>Definition</u>
BNAs	Base/Neutral and Acid Extractables
BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
DO	Dissolved Oxygen
N	Elemental Nitrogen
P	Elemental Phosphorous
PAHs	Polyaromatic Hydrocarbons
PCBs	Polychlorobiphenyls
SS	Suspended Solids
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
TPHs	Total Petroleum Hydrocarbons
TS	Total Solids
TSS	Total Suspended Solids
VOCs	Volatile Organic Compounds

This appendix describes the land use, hydrology and annual pollutant loadings by catchments for the Santa Monica Bay Watershed.

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
01	ARSEQ1	Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	2,169.08	0	0.10	1.6	21.5	857,000	13,712,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	2,169.08	0	0.10	1.6	21.5	857,000	13,712,000
	ARSEQ2	Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	2,912.69	0	0.10	1.6	28.9	1,150,000	18,400,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	2,912.69	0	0.10	1.6	28.9	1,150,000	18,400,000
	ARSEQ3	Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	1,906.27	0	0.10	1.3	15.4	612,000	9,792,000
		Unknown	0	0.05	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,906.32	0	0.10	1.3	15.4	612,000	9,792,000
	SMB1	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	99	38.59	0	0.10	1.2	0.3	11,000	176,000
		Unknown	1	0.23	65	0.56	1.2	0.0	0	0
		Catchment Total	100	38.82	0	0.10	1.2	0.3	11,000	176,000
	SMB2	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	127.71	0	0.10	1.2	1.0	38,000	608,000
		Unknown	0	0.02	65	0.56	1.2	0.0	0	0
		Catchment Total	100	127.73	0	0.10	1.2	1.0	38,000	608,000
	SMB3	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	40.72	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.15	65	0.56	1.2	0.0	0	0
		Catchment Total	100	40.87	0	0.10	1.2	0.3	12,000	192,000
	SMB4	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	97	7.11	0	0.10	1.2	0.1	2,000	32,000
		Unknown	3	0.20	65	0.56	1.2	0.0	0	0
		Catchment Total	100	7.31	2	0.11	1.2	0.1	2,000	32,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
02	SMB10	Single-family	29	8.79	42	0.39	1.2	0.3	10,000	160,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	71	21.64	0	0.10	1.2	0.2	6,000	96,000
		Unknown	0	0.09	65	0.56	1.2	0.0	0	0
		Catchment Total	100	30.52	12	0.18	1.2	0.4	16,000	256,000
	SMB11	Single-family	46	18.23	42	0.39	1.2	0.5	21,000	336,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	36	14.10	80	0.66	1.2	0.7	28,000	448,000
		Open	18	7.22	0	0.10	1.2	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	39.55	48	0.43	1.2	1.3	51,000	816,000
	SMB12	Single-family	13	6.07	42	0.39	1.2	0.2	7,000	112,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	10	4.38	80	0.66	1.2	0.2	9,000	144,000
		Open	77	35.56	0	0.10	1.2	0.3	11,000	176,000
		Unknown	0	0.02	65	0.56	1.2	0.0	0	0
		Catchment Total	100	46.03	13	0.19	1.2	0.7	27,000	432,000
	SMB5	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	18.67	0	0.10	1.2	0.1	6,000	96,000
		Unknown	0	0.01	65	0.56	1.2	0.0	0	0
		Catchment Total	100	18.68	0	0.10	1.2	0.1	6,000	96,000
	SMB6	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	57.40	0	0.10	1.2	0.4	17,000	272,000
		Unknown	0	0.01	65	0.56	1.2	0.0	0	0
		Catchment Total	100	57.41	0	0.10	1.2	0.4	17,000	272,000
	SMB7	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	33.91	0	0.10	1.2	0.3	10,000	160,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	33.91	0	0.10	1.2	0.3	10,000	160,000
	SMB8	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	77.22	0	0.10	1.2	0.6	23,000	368,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	77.22	0	0.10	1.2	0.6	23,000	368,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB9		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	99	37.08	0	0.10	1.2	0.3	11,000	176,000
		Unknown	1	0.41	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	37.49	1	0.11	1.2	0.3	12,000	192,000
SNICH		Single-family	1	12.67	42	0.39	1.3	0.4	16,000	256,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	3.01	80	0.66	1.3	0.2	6,000	96,000
		Open	98	831.45	0	0.10	1.3	6.7	267,000	4,272,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	847.13	1	0.11	1.3	7.3	289,000	4,624,000
WLWCL1		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	240.20	0	0.10	1.2	1.8	71,000	1,136,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	240.20	0	0.10	1.2	1.8	71,000	1,136,000
03	LALIS1	Single-family	1	11.20	42	0.39	1.3	0.4	14,000	224,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	99	932.69	0	0.10	1.3	7.5	299,000	4,784,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	943.89	0	0.10	1.3	7.9	313,000	5,008,000
SMB13		Single-family	10	3.76	42	0.39	1.2	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	10	3.80	80	0.66	1.2	0.2	7,000	112,000
		Open	81	31.55	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	39.11	12	0.18	1.2	0.5	20,000	320,000
SMB14		Single-family	24	9.97	42	0.39	1.2	0.3	12,000	192,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	10	3.97	80	0.66	1.2	0.2	8,000	128,000
		Open	66	27.27	0	0.10	1.2	0.2	8,000	128,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	41.21	18	0.22	1.2	0.7	28,000	448,000
SMB15		Single-family	17	4.36	42	0.39	1.2	0.1	5,000	80,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	83	21.92	0	0.10	1.2	0.2	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	26.28	7	0.15	1.2	0.3	11,000	176,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB16	Single-family	39	19.17	42	0.39	1.2	0.6	22,000	352,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	61	29.43	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	48.60	17	0.21	1.2	0.8	31,000	496,000
	SMB17	Single-family	99	9.20	42	0.39	1.2	0.3	11,000	176,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	1	0.06	0	0.10	1.2	0.0	0	0
		Unknown	0	0.03	65	0.56	1.2	0.0	0	0
		Catchment Total	100	9.29	42	0.39	1.2	0.3	11,000	176,000
04	LACHU1	Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	826.06	0	0.10	1.3	6.7	265,000	4,240,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	826.06	0	0.10	1.3	6.7	265,000	4,240,000
	LACHU2	Single-family	8	7.85	42	0.39	1.2	0.2	9,000	144,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	92	89.08	0	0.10	1.2	0.7	26,000	416,000
		Unknown	0	0.01	65	0.56	1.2	0.0	0	0
		Catchment Total	100	96.94	3	0.12	1.2	0.9	35,000	560,000
	SMB18	Single-family	72	13.20	42	0.39	1.2	0.4	15,000	240,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	28	5.04	0	0.10	1.2	0.0	1,000	16,000
		Unknown	0	0.07	65	0.56	1.2	0.0	0	0
		Catchment Total	100	18.31	31	0.31	1.2	0.4	16,000	256,000
	SMB19	Single-family	10	24.48	42	0.39	1.2	0.7	28,000	448,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	90	211.61	0	0.10	1.2	1.6	63,000	1,008,000
		Unknown	0	0.33	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	236.42	4	0.13	1.2	2.3	92,000	1,472,000
05	ENCNL1	Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	1,076.95	0	0.10	1.3	8.7	346,000	5,536,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,076.95	0	0.10	1.3	8.7	346,000	5,536,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
ENCNL2		Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	74.54	0	0.10	1.3	0.6	24,000	384,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	74.54	0	0.10	1.3	0.6	24,000	384,000
ENCNL3		Single-family	11	16.77	42	0.39	1.2	0.5	19,000	304,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	89	137.46	0	0.10	1.2	1.0	41,000	656,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	154.23	5	0.13	1.2	1.5	60,000	960,000
SMB20		Single-family	16	5.61	42	0.39	1.2	0.2	6,000	96,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	84	30.43	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	36.04	7	0.15	1.2	0.4	15,000	240,000
SMB21		Single-family	21	11.71	42	0.39	1.2	0.3	14,000	224,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	79	44.30	0	0.10	1.2	0.3	13,000	208,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	56.01	9	0.16	1.2	0.7	27,000	432,000
SMB22		Single-family	19	14.03	42	0.39	1.2	0.4	16,000	256,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	81	59.68	0	0.10	1.2	0.4	18,000	288,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	73.71	8	0.16	1.2	0.9	34,000	544,000
SMB23		Single-family	30	14.12	42	0.39	1.2	0.4	16,000	256,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	70	33.35	0	0.10	1.2	0.2	10,000	160,000
		Unknown	0	0.04	65	0.56	1.2	0.0	0	0
		Catchment Total	100	47.51	13	0.19	1.2	0.7	26,000	416,000
SMB24		Single-family	4	1.99	42	0.39	1.2	0.1	2,000	32,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	96	46.46	0	0.10	1.2	0.3	14,000	224,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	48.45	2	0.11	1.2	0.4	16,000	256,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB30		Single-family	7	2.29	42	0.39	1.2	0.1	3,000	48,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	93	32.85	0	0.10	1.2	0.2	10,000	160,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	35.14	3	0.12	1.2	0.3	13,000	208,000
SMB31		Single-family	67	15.95	42	0.39	1.2	0.5	18,000	288,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	33	8.00	0	0.10	1.2	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	23.95	28	0.29	1.2	0.5	20,000	320,000
SMB32		Single-family	39	20.06	42	0.39	1.2	0.6	23,000	368,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	61	31.62	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.09	65	0.56	1.2	0.0	0	0
		Catchment Total	100	51.77	16	0.21	1.2	0.8	32,000	512,000
SMB33		Single-family	30	18.19	42	0.39	1.2	0.5	21,000	336,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	70	41.70	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.03	65	0.56	1.2	0.0	0	0
		Catchment Total	100	59.92	13	0.19	1.2	0.8	33,000	528,000
SMB34		Single-family	34	6.74	42	0.39	1.2	0.2	8,000	128,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	66	13.15	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	19.89	14	0.20	1.2	0.3	12,000	192,000
STEEP1		Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	170.31	0	0.10	1.3	1.4	55,000	880,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	170.31	0	0.10	1.3	1.4	55,000	880,000
STEEP2		Single-family	5	4.13	42	0.39	1.2	0.1	5,000	80,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	95	81.16	0	0.10	1.2	0.6	24,000	384,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	85.29	2	0.11	1.2	0.7	29,000	464,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
06	SMB35	Single-family	39	26.73	42	0.39	1.2	0.8	31,000	496,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	61	41.71	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	68.44	16	0.21	1.2	1.1	43,000	688,000
	SMB36	Single-family	46	50.78	42	0.39	1.2	1.5	59,000	944,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	54	58.89	0	0.10	1.2	0.4	17,000	272,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	109.67	19	0.23	1.2	1.9	76,000	1,216,000
	SMB37	Single-family	8	10.23	42	0.39	1.2	0.3	12,000	192,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	92	124.77	0	0.10	1.2	0.9	37,000	592,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	135.00	3	0.12	1.2	1.2	49,000	784,000
	SMB38	Single-family	32	14.62	42	0.39	1.2	0.4	17,000	272,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	68	31.01	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	45.63	13	0.19	1.2	0.7	26,000	416,000
	SMB39	Single-family	46	22.55	42	0.39	1.2	0.7	26,000	416,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	52	25.70	0	0.10	1.2	0.2	8,000	128,000
		Unknown	3	1.25	65	0.56	1.2	0.1	2,000	32,000
		Catchment Total	100	49.50	21	0.24	1.2	0.9	36,000	576,000
	SMB40	Single-family	22	13.72	42	0.39	1.2	0.4	16,000	256,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	73	46.28	0	0.10	1.2	0.3	14,000	224,000
		Unknown	6	3.63	65	0.56	1.2	0.2	6,000	96,000
		Catchment Total	100	63.63	13	0.19	1.2	0.9	36,000	576,000
	SMB41	Single-family	64	161.90	42	0.39	1.2	4.7	187,000	2,992,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	36	90.97	0	0.10	1.2	0.7	27,000	432,000
		Unknown	1	1.95	65	0.56	1.2	0.1	3,000	48,000
		Catchment Total	100	254.82	27	0.29	1.2	5.5	217,000	3,472,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB42		Single-family	41	133.76	42	0.39	1.2	3.9	155,000	2,480,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	3	11.34	80	0.66	1.2	0.6	22,000	352,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	55	181.57	0	0.10	1.2	1.4	54,000	864,000
		Unknown	0	0.67	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	327.34	20	0.24	1.2	5.8	232,000	3,712,000
SMB43		Single-family	43	37.98	42	0.39	1.2	1.1	44,000	704,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	29	25.73	80	0.66	1.2	1.3	50,000	800,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	27	23.60	0	0.10	1.2	0.2	7,000	112,000
		Unknown	2	1.65	65	0.56	1.2	0.1	3,000	48,000
		Catchment Total	100	88.96	42	0.39	1.2	2.6	104,000	1,664,000
SMB44		Single-family	43	50.17	42	0.39	1.2	1.5	58,000	928,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	2	1.89	80	0.66	1.2	0.1	4,000	64,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	55	64.76	0	0.10	1.2	0.5	19,000	304,000
		Unknown	0	0.29	65	0.56	1.2	0.0	0	0
		Catchment Total	100	117.11	19	0.23	1.2	2.0	81,000	1,296,000
SMB45		Single-family	30	20.07	42	0.39	1.2	0.6	23,000	368,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	64	42.42	0	0.10	1.2	0.3	13,000	208,000
		Unknown	6	4.17	65	0.56	1.2	0.2	7,000	112,000
		Catchment Total	100	66.66	17	0.22	1.2	1.1	43,000	688,000
TRANC1		Single-family	1	40.80	42	0.39	1.5	1.5	59,000	944,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	1	43.26	80	0.66	1.5	2.7	106,000	1,696,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	98	4,702.43	0	0.10	1.5	43.7	1,741,000	27,856,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	4,786.49	1	0.11	1.5	47.9	1,906,000	30,496,000
TRANC2		Single-family	9	7.17	42	0.39	1.2	0.2	8,000	128,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	91	68.99	0	0.10	1.2	0.5	20,000	320,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	76.16	4	0.13	1.2	0.7	28,000	448,000
TRANC3		Single-family	1	2.45	42	0.39	1.3	0.1	3,000	48,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	99	351.62	0	0.10	1.3	2.8	113,000	1,808,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	354.07	0	0.10	1.3	2.9	116,000	1,856,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
07	TRANC4	Single-family	51	32.59	42	0.39	1.2	0.9	38,000	608,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	49	31.70	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	64.29	21	0.25	1.2	1.2	47,000	752,000
	TRANC5	Single-family	4	3.39	42	0.39	1.2	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	96	90.69	0	0.10	1.2	0.7	27,000	432,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	94.08	2	0.11	1.2	0.8	31,000	496,000
	TRANC6	Single-family	25	39.65	42	0.39	1.2	1.2	46,000	736,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	75	120.68	0	0.10	1.2	0.9	36,000	576,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	160.33	10	0.17	1.2	2.0	82,000	1,312,000
	SMB50	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	68	3.97	0	0.10	1.2	0.0	1,000	16,000
		Unknown	32	1.88	65	0.56	1.2	0.1	3,000	48,000
		Catchment Total	100	5.85	21	0.25	1.2	0.1	4,000	64,000
	SMB51	Single-family	82	41.66	42	0.39	1.2	1.2	48,000	768,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	17	8.77	0	0.10	1.2	0.1	3,000	48,000
		Unknown	1	0.56	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	50.99	35	0.34	1.2	1.3	52,000	832,000
	SMB52	Single-family	62	121.90	42	0.39	1.2	3.5	141,000	2,256,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	1	1.24	92	0.74	1.2	0.1	3,000	48,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	35	67.53	0	0.10	1.2	0.5	20,000	320,000
		Unknown	2	4.75	65	0.56	1.2	0.2	8,000	128,000
		Catchment Total	100	195.42	28	0.30	1.2	4.3	172,000	2,752,000
	SMB53	Single-family	64	11.97	42	0.39	1.2	0.3	14,000	224,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	29	5.42	0	0.10	1.2	0.0	2,000	32,000
		Unknown	7	1.29	65	0.56	1.2	0.1	2,000	32,000
		Catchment Total	100	18.68	31	0.32	1.2	0.4	18,000	288,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB54		Single-family	87	32.97	42	0.39	1.2	1.0	38,000	608,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	12	4.62	0	0.10	1.2	0.0	1,000	16,000
		Unknown	1	0.47	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	38.06	37	0.36	1.2	1.0	40,000	640,000
SMB55		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	31	1.93	0	0.10	1.2	0.0	1,000	16,000
		Unknown	69	4.37	65	0.56	1.2	0.2	7,000	112,000
		Catchment Total	100	6.30	45	0.42	1.2	0.2	8,000	128,000
SMB56		Single-family	60	25.52	42	0.39	1.2	0.7	29,000	464,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	36	15.49	0	0.10	1.2	0.1	5,000	80,000
		Unknown	3	1.43	65	0.56	1.2	0.1	2,000	32,000
		Catchment Total	100	42.44	27	0.29	1.2	0.9	36,000	576,000
SMB57		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	73	8.72	0	0.10	1.2	0.1	3,000	48,000
		Unknown	27	3.23	65	0.56	1.2	0.1	5,000	80,000
		Catchment Total	100	11.95	18	0.22	1.2	0.2	8,000	128,000
SMB58		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	8.10	0	0.10	1.2	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	8.10	0	0.10	1.2	0.1	2,000	32,000
SMB59		Single-family	35	4.27	42	0.39	1.2	0.1	5,000	80,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	65	7.83	0	0.10	1.2	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	12.10	15	0.20	1.2	0.2	7,000	112,000
SMB60		Single-family	75	7.66	42	0.39	1.2	0.2	9,000	144,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	25	2.49	0	0.10	1.2	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	10.15	32	0.32	1.2	0.2	10,000	160,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	ZUMA1	Single-family	2	42.52	42	0.39	1.6	1.6	65,000	1,040,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	2	35.41	92	0.74	1.6	2.6	103,000	1,648,000
		Public	7	124.30	80	0.66	1.6	8.1	324,000	5,184,000
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	89	1,657.19	0	0.10	1.6	16.4	654,000	10,464,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,859.42	8	0.16	1.6	28.8	1,146,000	18,336,000
	ZUMA2	Single-family	0	0.00	42	0.39	1.5	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	100	982.36	0	0.10	1.5	9.1	364,000	5,824,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	982.36	0	0.10	1.5	9.1	364,000	5,824,000
	ZUMA3	Single-family	1	15.96	42	0.39	1.5	0.6	23,000	368,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	99	2,393.99	0	0.10	1.5	22.3	886,000	14,176,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	2,409.95	0	0.10	1.5	22.8	909,000	14,544,000
	ZUMA4	Single-family	38	172.93	42	0.39	1.2	5.0	200,000	3,200,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	2	7.65	92	0.74	1.2	0.4	17,000	272,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	60	268.74	0	0.10	1.2	2.0	80,000	1,280,000
		Unknown	0	0.30	65	0.56	1.2	0.0	0	0
		Catchment Total	100	449.62	18	0.22	1.2	7.5	297,000	4,752,000
08	RAMRZ1	Single-family	1	11.66	42	0.39	1.3	0.4	15,000	240,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	99	1,663.96	0	0.10	1.3	13.4	534,000	8,544,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,675.62	0	0.10	1.3	13.8	549,000	8,784,000
	RAMRZ2	Single-family	8	9.83	42	0.39	1.2	0.3	11,000	176,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	92	115.71	0	0.10	1.2	0.9	34,000	544,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	125.54	3	0.12	1.2	1.1	45,000	720,000
	RAMRZ3	Single-family	27	46.28	42	0.39	1.2	1.3	53,000	848,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	73	123.44	0	0.10	1.2	0.9	37,000	592,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	169.72	11	0.18	1.2	2.3	90,000	1,440,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
RAMRZ4		Single-family	3	2.59	42	0.39	1.2	0.1	3,000	48,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	97	98.60	0	0.10	1.2	0.7	29,000	464,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	101.19	1	0.11	1.2	0.8	32,000	512,000
RAMRZ5		Single-family	31	23.88	42	0.39	1.2	0.7	28,000	448,000
		Multi-family	11	8.02	68	0.58	1.2	0.3	14,000	224,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	58	44.37	0	0.10	1.2	0.3	13,000	208,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	76.27	20	0.24	1.2	1.4	55,000	880,000
SMB61		Single-family	89	27.03	42	0.39	1.2	0.8	31,000	496,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	9	2.74	0	0.10	1.2	0.0	1,000	16,000
		Unknown	2	0.61	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	30.38	39	0.37	1.2	0.8	33,000	528,000
SMB62		Single-family	95	171.31	42	0.39	1.2	5.0	198,000	3,168,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	4	7.45	80	0.66	1.2	0.4	15,000	240,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	1	2.02	0	0.10	1.2	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	180.78	43	0.40	1.2	5.4	214,000	3,424,000
SMB63		Single-family	61	153.04	42	0.39	1.2	4.4	177,000	2,832,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	3	6.34	92	0.74	1.2	0.3	14,000	224,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	37	91.73	0	0.10	1.2	0.7	27,000	432,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	251.11	28	0.29	1.2	5.5	218,000	3,488,000
SMB64		Single-family	100	7.03	42	0.39	1.2	0.2	8,000	128,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	7.03	42	0.39	1.2	0.2	8,000	128,000
SMB65		Single-family	99	6.25	42	0.39	1.2	0.2	7,000	112,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	1	0.05	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	6.30	42	0.39	1.2	0.2	7,000	112,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB711		Single-family	25	15.47	42	0.39	1.2	0.4	18,000	288,000
		Multi-family	8	4.86	68	0.58	1.2	0.2	8,000	128,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	67	41.72	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	62.05	16	0.21	1.2	1.0	38,000	608,000
SMB712		Single-family	57	12.65	42	0.39	1.2	0.4	15,000	240,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	43	9.65	0	0.10	1.2	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	22.30	24	0.26	1.2	0.4	18,000	288,000
SMB713		Single-family	71	44.95	42	0.39	1.2	1.3	52,000	832,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	29	18.60	0	0.10	1.2	0.1	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	63.55	30	0.31	1.2	1.4	58,000	928,000
SMB72		Single-family	69	3.60	42	0.39	1.2	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	31	1.65	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	5.25	29	0.30	1.2	0.1	4,000	64,000
SMB73		Single-family	38	98.13	42	0.39	1.2	2.8	113,000	1,808,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	61	156.61	0	0.10	1.2	1.2	46,000	736,000
		Unknown	0	0.73	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	255.47	16	0.21	1.2	4.0	160,000	2,560,000
WALCN1		Single-family	15	7.80	42	0.39	1.2	0.2	9,000	144,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	85	44.71	0	0.10	1.2	0.3	13,000	208,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	52.51	6	0.14	1.2	0.6	22,000	352,000
WALCN2		Single-family	3	0.71	42	0.39	1.2	0.0	1,000	16,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	97	20.86	0	0.10	1.2	0.2	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	21.57	1	0.11	1.2	0.2	7,000	112,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	WALCN3	Single-family	23	27.80	42	0.39	1.2	0.8	32,000	512,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	77	90.50	0	0.10	1.2	0.7	27,000	432,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	118.30	10	0.17	1.2	1.5	59,000	944,000	
	WALCN4	Single-family	1	0.62	42	0.39	1.2	0.0	1,000	16,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	99	62.77	0	0.10	1.2	0.5	19,000	304,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	63.39	0	0.10	1.2	0.5	20,000	320,000	
	WALCN5	Single-family	94	92.48	42	0.39	1.2	2.7	107,000	1,712,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	6	6.10	0	0.10	1.2	0.0	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	98.58	39	0.37	1.2	2.7	109,000	1,744,000	
09	ESCON1	Single-family	2	44.12	42	0.39	1.3	1.4	55,000	880,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	98	1,849.50	0	0.10	1.3	14.9	593,000	9,488,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
Catchment Total		100	1,893.62	1	0.11	1.3	16.3	648,000	10,368,000	
	ESCON2	Single-family	32	59.92	42	0.39	1.2	1.7	69,000	1,104,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	68	129.00	0	0.10	1.2	1.0	38,000	608,000
		Unknown	0	0.45	65	0.56	1.2	0.0	1,000	16,000
Catchment Total		100	189.37	13	0.19	1.2	2.7	108,000	1,728,000	
	SMB74	Single-family	58	85.49	42	0.39	1.2	2.5	99,000	1,584,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	41	60.21	0	0.10	1.2	0.4	18,000	288,000
		Unknown	0	0.55	65	0.56	1.2	0.0	1,000	16,000
Catchment Total		100	146.25	25	0.27	1.2	3.0	118,000	1,888,000	
10	DRYML1	Single-family	0	1.41	42	0.39	1.3	0.0	2,000	32,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	306.68	0	0.10	1.3	2.5	98,000	1,568,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
Catchment Total		100	308.09	0	0.10	1.3	2.5	100,000	1,600,000	

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
DRYML2		Single-family	8	18.68	42	0.39	1.3	0.6	23,000	368,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	92	202.06	0	0.10	1.3	1.6	65,000	1,040,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	220.74	4	0.12	1.3	2.2	88,000	1,408,000
LATIG1		Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	696.60	0	0.10	1.3	5.6	224,000	3,584,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	696.60	0	0.10	1.3	5.6	224,000	3,584,000
LATIG2		Single-family	35	24.60	42	0.39	1.2	0.7	28,000	448,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	64	44.78	0	0.10	1.2	0.3	13,000	208,000
		Unknown	1	0.52	65	0.56	1.2	0.0	1,000	16,000
		Catchment Total	100	69.90	15	0.21	1.2	1.1	42,000	672,000
SMB75		Single-family	56	43.76	42	0.39	1.2	1.3	51,000	816,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	40	31.30	0	0.10	1.2	0.2	9,000	144,000
		Unknown	3	2.62	65	0.56	1.2	0.1	4,000	64,000
		Catchment Total	100	77.68	26	0.28	1.2	1.6	64,000	1,024,000
SMB81		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	99	24.18	0	0.10	1.2	0.2	7,000	112,000
		Unknown	1	0.29	65	0.56	1.2	0.0	0	0
		Catchment Total	100	24.47	1	0.11	1.2	0.2	7,000	112,000
SMB82		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	38.58	0	0.10	1.2	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	38.58	0	0.10	1.2	0.3	11,000	176,000
SOLST1		Single-family	1	13.63	42	0.39	1.5	0.5	20,000	320,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	99	2,247.30	0	0.10	1.5	20.9	832,000	13,312,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	2,260.93	0	0.10	1.5	21.4	852,000	13,632,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SOLST2	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	72.53	0	0.10	1.2	0.5	21,000	336,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	72.53	0	0.10	1.2	0.5	21,000	336,000
11	CORRL1	Single-family	2	45.02	42	0.39	1.5	1.6	65,000	1,040,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	98	2,025.13	0	0.10	1.5	18.8	750,000	12,000,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	2,070.15	1	0.11	1.5	20.5	815,000	13,040,000
	CORRL2	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	208.26	0	0.10	1.2	1.5	62,000	992,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	208.26	0	0.10	1.2	1.5	62,000	992,000
	MARIE1	Single-family	0	0.20	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	20	60.90	80	0.66	1.3	3.2	129,000	2,064,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	80	247.63	0	0.10	1.3	2.0	79,000	1,264,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	308.73	16	0.21	1.3	5.2	208,000	3,328,000
	MARIE2	Single-family	8	2.81	42	0.39	1.2	0.1	3,000	48,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	92	33.39	0	0.10	1.2	0.2	10,000	160,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	36.20	3	0.12	1.2	0.3	13,000	208,000
	MARIE3	Single-family	77	35.36	42	0.39	1.2	1.0	41,000	656,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	3	1.47	80	0.66	1.2	0.1	3,000	48,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	20	9.00	0	0.10	1.2	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	45.83	35	0.34	1.2	1.2	47,000	752,000
	MARIE4	Single-family	15	10.93	42	0.39	1.2	0.3	13,000	208,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	85	63.73	80	0.66	1.2	3.1	125,000	2,000,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	74.66	74	0.62	1.2	3.4	138,000	2,208,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
MARIE5		Single-family	17	9.93	42	0.39	1.2	0.3	11,000	176,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	17	9.90	80	0.66	1.2	0.5	19,000	304,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	66	38.98	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	58.81	21	0.24	1.2	1.1	42,000	672,000
PUERC1		Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	406.82	0	0.10	1.3	3.3	131,000	2,096,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	406.82	0	0.10	1.3	3.3	131,000	2,096,000
PUERC2		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	37.23	0	0.10	1.2	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	37.23	0	0.10	1.2	0.3	11,000	176,000
PUERC3		Single-family	11	17.51	42	0.39	1.2	0.5	20,000	320,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	2	3.87	92	0.74	1.2	0.2	8,000	128,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	87	144.96	0	0.10	1.2	1.1	43,000	688,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	166.34	7	0.15	1.2	1.8	71,000	1,136,000
SMB83		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	35.76	0	0.10	1.2	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	35.76	0	0.10	1.2	0.3	11,000	176,000
SMB84		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	30.99	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	30.99	0	0.10	1.2	0.2	9,000	144,000
SMB85		Single-family	4	1.48	42	0.39	1.2	0.0	2,000	32,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	96	36.14	0	0.10	1.2	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	37.62	2	0.11	1.2	0.3	13,000	208,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB86	Single-family	30	17.17	42	0.39	1.2	0.5	20,000	320,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	70	40.92	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	58.09	12	0.19	1.2	0.8	32,000	512,000
	SMB87	Single-family	15	22.54	42	0.39	1.2	0.7	26,000	416,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	1	0.78	92	0.74	1.2	0.0	2,000	32,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	85	131.93	0	0.10	1.2	1.0	39,000	624,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	155.25	7	0.15	1.2	1.7	67,000	1,072,000
	SMB88	Single-family	43	20.78	42	0.39	1.2	0.6	24,000	384,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	16	7.57	92	0.74	1.2	0.4	17,000	272,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	41	19.87	0	0.10	1.2	0.1	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	48.22	33	0.33	1.2	1.2	47,000	752,000
	SMB89	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	26.26	0	0.10	1.2	0.2	8,000	128,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	26.26	0	0.10	1.2	0.2	8,000	128,000
	SMB90	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	51	44.86	80	0.66	1.2	2.2	88,000	1,408,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	49	42.56	0	0.10	1.2	0.3	13,000	208,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	87.42	41	0.39	1.2	2.5	101,000	1,616,000
	SMB91	Single-family	3	1.22	42	0.39	1.2	0.0	1,000	16,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	97	40.94	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	42.16	1	0.11	1.2	0.3	13,000	208,000
	SMB92	Single-family	45	42.93	42	0.39	1.2	1.2	50,000	800,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	12	11.64	92	0.74	1.2	0.6	26,000	416,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	42	39.79	0	0.10	1.2	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	94.36	30	0.31	1.2	2.2	88,000	1,408,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	WINCN1	Single-family	4	11.35	42	0.39	1.2	0.3	13,000	208,000
		Multi-family	1	2.00	68	0.58	1.2	0.1	3,000	48,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	10	25.48	80	0.66	1.2	1.3	50,000	800,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	85	219.68	0	0.10	1.2	1.6	65,000	1,040,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	258.51	10	0.17	1.2	3.3	131,000	2,096,000
12	CHESE1	Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	3	71.61	80	0.66	1.3	3.8	152,000	2,432,000
		Open	97	2,022.79	0	0.10	1.3	16.3	649,000	10,384,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,094.40	3	0.12	1.3	20.1	801,000	12,816,000
	CHESE2	Single-family	35	227.57	42	0.39	1.3	7.2	285,000	4,560,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	6	41.60	92	0.74	1.3	2.5	99,000	1,584,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	59	383.30	0	0.10	1.3	3.1	123,000	1,968,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	652.47	21	0.24	1.3	12.7	507,000	8,112,000
	COLDK1	Single-family	12	114.35	42	0.39	1.6	4.4	176,000	2,816,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	2	14.92	80	0.66	1.6	1.0	39,000	624,000
		Open	86	793.74	0	0.10	1.6	7.9	313,000	5,008,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	923.01	6	0.14	1.6	13.3	528,000	8,448,000
	COLDK2	Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	924.93	0	0.10	1.6	9.2	365,000	5,840,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	924.93	0	0.10	1.6	9.2	365,000	5,840,000
	COLDK3	Single-family	8	150.57	42	0.39	1.6	5.8	232,000	3,712,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	92	1,801.66	0	0.10	1.6	17.9	712,000	11,392,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,952.23	3	0.12	1.6	23.7	944,000	15,104,000
	COLDK4	Single-family	5	15.39	42	0.39	1.5	0.6	22,000	352,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	95	282.07	0	0.10	1.5	2.6	104,000	1,664,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	297.46	2	0.12	1.5	3.2	126,000	2,016,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	COLDK5	Single-family	32	149.40	42	0.39	1.5	5.4	216,000	3,456,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	68	314.69	0	0.10	1.5	2.9	117,000	1,872,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	464.09	14	0.19	1.5	8.3	333,000	5,328,000
	DARCKC1	Single-family	4	24.21	42	0.39	1.5	0.9	35,000	560,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	96	623.80	0	0.10	1.5	5.8	231,000	3,696,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	648.01	2	0.11	1.5	6.7	266,000	4,256,000
	ELVRG1	Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	100	1,438.82	0	0.10	1.3	11.6	462,000	7,392,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,438.82	0	0.10	1.3	11.6	462,000	7,392,000
	GATES1	Single-family	7	34.22	42	0.39	1.3	1.1	43,000	688,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	93	475.89	0	0.10	1.3	3.8	153,000	2,448,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	510.11	3	0.12	1.3	4.9	196,000	3,136,000
	LESIER1	Single-family	4	68.32	42	0.39	1.6	2.6	105,000	1,680,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	96	1,609.81	0	0.10	1.6	16.0	636,000	10,176,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,678.13	2	0.11	1.6	18.6	741,000	11,856,000
	LIBTY1	Single-family	6	98.30	42	0.39	1.5	3.6	142,000	2,272,000
		Multi-family	2	35.86	68	0.58	1.5	1.9	77,000	1,232,000
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	3	54.80	80	0.66	1.5	3.4	134,000	2,144,000
		Open	88	1,415.24	0	0.10	1.5	13.2	524,000	8,384,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,604.20	7	0.15	1.5	22.0	877,000	14,032,000
	LNDRO1	Single-family	15	654.80	42	0.39	1.3	20.6	819,000	13,104,000
		Multi-family	1	41.39	68	0.58	1.3	1.9	77,000	1,232,000
		Commercial	2	102.62	92	0.74	1.3	6.1	244,000	3,904,000
		Public	0	13.91	80	0.66	1.3	0.7	29,000	464,000
		Light Industrial	0	17.69	91	0.74	1.3	1.1	42,000	672,000
		Other Urban	5	199.54	80	0.66	1.3	10.6	423,000	6,768,000
		Open	76	3,298.11	0	0.10	1.3	26.6	1,058,000	16,928,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	4,328.06	14	0.19	1.3	67.6	2,692,000	43,072,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
LOBOC1		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.13	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	1,738.67	0	0.10	1.6	17.2	687,000	10,992,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,738.80	0	0.10	1.6	17.3	687,000	10,992,000
LOBOC2		Single-family	0	0.04	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	89.51	0	0.10	1.6	0.9	35,000	560,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	89.55	0	0.10	1.6	0.9	35,000	560,000
LOBOC3		Single-family	16	64.93	42	0.39	1.6	2.5	100,000	1,600,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	84	352.71	0	0.10	1.6	3.5	139,000	2,224,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	417.64	7	0.15	1.6	6.0	239,000	3,824,000
LVIRG2		Single-family	13	148.06	42	0.39	1.3	4.7	185,000	2,960,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	1	15.97	80	0.66	1.3	0.8	34,000	544,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	6	72.48	80	0.66	1.3	3.9	154,000	2,464,000
		Open	79	905.99	0	0.10	1.3	7.3	291,000	4,656,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,142.50	12	0.18	1.3	16.7	664,000	10,624,000
LVIRG3		Single-family	2	30.09	42	0.39	1.3	0.9	38,000	608,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	1	8.66	80	0.66	1.3	0.5	18,000	288,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	3	47.96	80	0.66	1.3	2.6	102,000	1,632,000
		Open	94	1,317.19	0	0.10	1.3	10.6	423,000	6,768,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,403.90	4	0.13	1.3	14.6	581,000	9,296,000
LVIRG4		Single-family	3	85.88	42	0.39	1.5	3.1	124,000	1,984,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	11.16	92	0.74	1.5	0.8	31,000	496,000
		Public	1	16.91	80	0.66	1.5	1.0	41,000	656,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	14	406.56	80	0.66	1.5	25.0	994,000	15,904,000
		Open	82	2,335.95	0	0.10	1.5	21.7	865,000	13,840,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	2,856.46	13	0.19	1.5	51.6	2,055,000	32,880,000
LVIRG5		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	371.27	0	0.10	1.6	3.7	147,000	2,352,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	371.27	0	0.10	1.6	3.7	147,000	2,352,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
LVRG1		Single-family	1	31.30	42	0.39	1.3	1.0	39,000	624,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	99	3,168.50	0	0.10	1.3	25.5	1,017,000	16,272,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	3,199.80	0	0.10	1.3	26.5	1,056,000	16,896,000
MALIBU1		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	989.47	0	0.10	1.6	9.8	391,000	6,256,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	989.47	0	0.10	1.6	9.8	391,000	6,256,000
MALIBU2		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	99.29	0	0.10	1.6	1.0	39,000	624,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	99.29	0	0.10	1.6	1.0	39,000	624,000
MALIBU3		Single-family	1	11.15	42	0.39	1.6	0.4	17,000	272,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	99	998.05	0	0.10	1.6	9.9	394,000	6,304,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,009.20	0	0.10	1.6	10.3	411,000	6,576,000
MALIBU4		Single-family	1	0.82	42	0.39	1.6	0.0	1,000	16,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	99	81.62	0	0.10	1.6	0.8	32,000	512,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	82.44	0	0.10	1.6	0.8	33,000	528,000
MALIBU5		Single-family	7	217.75	42	0.39	1.3	6.8	273,000	4,368,000
		Multi-family	0	5.67	68	0.58	1.3	0.3	11,000	176,000
		Commercial	1	32.04	92	0.74	1.3	1.9	76,000	1,216,000
		Public	1	19.47	80	0.66	1.3	1.0	41,000	656,000
		Light Industrial	0	11.51	91	0.74	1.3	0.7	27,000	432,000
		Other Urban	0	7.75	80	0.66	1.3	0.4	16,000	256,000
		Open	91	2,872.02	0	0.10	1.3	23.1	922,000	14,752,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	3,166.21	5	0.13	1.3	34.3	1,366,000	21,856,000
MEDEA1		Single-family	2	33.27	42	0.39	1.3	1.0	42,000	672,000
		Multi-family	2	30.91	68	0.58	1.3	1.4	58,000	928,000
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	3	35.86	80	0.66	1.3	1.9	76,000	1,216,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	93	1,245.79	0	0.10	1.3	10.0	400,000	6,400,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,345.83	5	0.13	1.3	14.4	576,000	9,216,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
MEDEA2		Single-family	3	10.00	42	0.39	1.3	0.3	13,000	208,000
		Multi-family	14	53.28	68	0.58	1.3	2.5	99,000	1,584,000
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	1.03	80	0.66	1.3	0.1	2,000	32,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	4	14.90	80	0.66	1.3	0.8	32,000	512,000
		Open	80	314.04	0	0.10	1.3	2.5	101,000	1,616,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	393.25	14	0.20	1.3	6.2	247,000	3,952,000
MEDEA3		Single-family	46	1,099.77	42	0.39	1.3	34.6	1,376,000	22,016,000
		Multi-family	1	16.62	68	0.58	1.3	0.8	31,000	496,000
		Commercial	2	46.38	92	0.74	1.3	2.8	110,000	1,760,000
		Public	3	73.25	80	0.66	1.3	3.9	155,000	2,480,000
		Light Industrial	2	46.12	91	0.74	1.3	2.8	110,000	1,760,000
		Other Urban	3	66.03	80	0.66	1.3	3.5	140,000	2,240,000
		Open	44	1,049.98	0	0.10	1.3	8.5	337,000	5,392,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,398.15	28	0.29	1.3	56.7	2,259,000	36,144,000
MEDEA4		Single-family	21	412.80	42	0.39	1.5	15.0	596,000	9,536,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	79	1,508.19	0	0.10	1.5	14.0	558,000	8,928,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,920.99	9	0.16	1.5	29.0	1,154,000	18,464,000
PCMDO1		Single-family	5	139.84	42	0.39	1.3	4.4	175,000	2,800,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	95	2,443.29	0	0.10	1.3	19.7	784,000	12,544,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,583.13	2	0.12	1.3	24.1	959,000	15,344,000
POTVY1		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	4	151.90	80	0.66	1.6	9.9	396,000	6,336,000
		Open	96	3,895.85	0	0.10	1.6	38.6	1,539,000	24,624,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	4,047.75	3	0.12	1.6	48.6	1,935,000	30,960,000
POTVY10		Single-family	16	88.79	42	0.39	1.6	3.4	137,000	2,192,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	1	7.89	80	0.66	1.6	0.5	21,000	336,000
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	83	472.01	0	0.10	1.6	4.7	186,000	2,976,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	568.69	8	0.15	1.6	8.6	344,000	5,504,000
POTVY11		Single-family	0	3.70	42	0.39	1.6	0.1	6,000	96,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	1	5.26	80	0.66	1.6	0.3	14,000	224,000
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	99	827.31	0	0.10	1.6	8.2	327,000	5,232,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	836.27	1	0.10	1.6	8.7	347,000	5,552,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
POTVY12		Single-family	86	317.28	42	0.39	1.6	12.3	489,000	7,824,000
		Multi-family	0	0.85	68	0.58	1.6	0.0	2,000	32,000
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	14	50.21	0	0.10	1.6	0.5	20,000	320,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	368.34	36	0.35	1.6	12.8	511,000	8,176,000
POTVY2		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	780.05	0	0.10	1.6	7.7	308,000	4,928,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	780.05	0	0.10	1.6	7.7	308,000	4,928,000
POTVY3		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	685.40	0	0.10	1.6	6.8	271,000	4,336,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	685.40	0	0.10	1.6	6.8	271,000	4,336,000
POTVY4		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	202.64	0	0.10	1.6	2.0	80,000	1,280,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	202.64	0	0.10	1.6	2.0	80,000	1,280,000
POTVY5		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	76.68	0	0.10	1.6	0.8	30,000	480,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	76.68	0	0.10	1.6	0.8	30,000	480,000
POTVY6		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	178.94	0	0.10	1.6	1.8	71,000	1,136,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	178.94	0	0.10	1.6	1.8	71,000	1,136,000
POTVY7		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	175.67	0	0.10	1.6	1.7	69,000	1,104,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	175.67	0	0.10	1.6	1.7	69,000	1,104,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
POTVY8		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	4,253.11	0	0.10	1.6	42.2	1,680,000	26,880,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	4,253.11	0	0.10	1.6	42.2	1,680,000	26,880,000
POTVY9		Single-family	9	40.56	42	0.39	1.6	1.6	62,000	992,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	91	424.53	0	0.10	1.6	4.2	168,000	2,688,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	465.09	4	0.13	1.6	5.8	230,000	3,680,000
RUSSL1		Single-family	23	404.74	42	0.39	1.5	14.7	584,000	9,344,000
		Multi-family	0	8.21	68	0.58	1.5	0.4	18,000	288,000
		Commercial	0	0.38	92	0.74	1.5	0.0	1,000	16,000
		Public	1	22.83	80	0.66	1.5	1.4	56,000	896,000
		Light Industrial	15	270.88	91	0.74	1.5	18.6	742,000	11,872,000
		Other Urban	3	54.48	80	0.66	1.5	3.3	133,000	2,128,000
		Open	57	1,005.28	0	0.10	1.5	9.3	372,000	5,952,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,766.80	27	0.29	1.5	47.9	1,906,000	30,496,000
SCHSE1		Single-family	1	5.20	42	0.39	1.5	0.2	8,000	128,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	99	550.61	0	0.10	1.5	5.1	204,000	3,264,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	555.81	0	0.10	1.5	5.3	212,000	3,392,000
SLEEP1		Single-family	15	57.63	42	0.39	1.6	2.2	89,000	1,424,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	85	314.36	0	0.10	1.6	3.1	124,000	1,984,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	371.99	7	0.14	1.6	5.3	213,000	3,408,000
STOKE1		Single-family	1	16.72	42	0.39	1.6	0.6	26,000	416,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	99	2,883.92	0	0.10	1.6	28.6	1,139,000	18,224,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	2,900.64	0	0.10	1.6	29.3	1,165,000	18,640,000
TRIUN1		Single-family	1	15.15	42	0.39	1.6	0.6	23,000	368,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	99	1,109.96	0	0.10	1.6	11.0	438,000	7,008,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,125.11	1	0.10	1.6	11.6	461,000	7,376,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	TRIUN2	Single-family	30	592.48	42	0.39	1.5	21.5	856,000	13,696,000
		Multi-family	8	159.77	68	0.58	1.5	8.6	343,000	5,488,000
		Commercial	9	182.22	92	0.74	1.5	12.5	499,000	7,984,000
		Public	6	124.98	80	0.66	1.5	7.7	305,000	4,880,000
		Light Industrial	3	67.61	91	0.74	1.5	4.7	185,000	2,960,000
		Other Urban	1	21.52	80	0.66	1.5	1.3	53,000	848,000
		Open	42	827.44	0	0.10	1.5	7.7	306,000	4,896,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,976.02	36	0.35	1.5	64.0	2,547,000	40,752,000
	TRIUN3	Single-family	6	65.08	42	0.39	1.5	2.4	94,000	1,504,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	1	13.84	92	0.74	1.5	1.0	38,000	608,000
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	92	971.47	0	0.10	1.5	9.0	360,000	5,760,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,050.39	4	0.13	1.5	12.3	492,000	7,872,000
	TRIUN4	Single-family	6	26.00	42	0.39	1.5	0.9	38,000	608,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	94	394.78	0	0.10	1.5	3.7	146,000	2,336,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	420.78	3	0.12	1.5	4.6	184,000	2,944,000
	TRIUN5	Single-family	3	19.73	42	0.39	1.5	0.7	28,000	448,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	97	583.65	0	0.10	1.5	5.4	216,000	3,456,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	603.38	1	0.11	1.5	6.1	244,000	3,904,000
	TRIUN6	Single-family	13	203.49	42	0.39	1.6	7.9	313,000	5,008,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	87	1,376.27	0	0.10	1.6	13.7	544,000	8,704,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,579.76	5	0.14	1.6	21.5	857,000	13,712,000
	TRIUN7	Single-family	1	14.43	42	0.39	1.6	0.6	22,000	352,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	99	2,564.41	0	0.10	1.6	25.4	1,013,000	16,208,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	2,578.84	0	0.10	1.6	26.0	1,035,000	16,560,000
13	CRBCN1	Single-family	8	106.44	42	0.39	1.3	3.3	133,000	2,128,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.05	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	92	1,293.13	0	0.10	1.3	10.4	415,000	6,640,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,399.62	3	0.12	1.3	13.8	548,000	8,768,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB101		Single-family	38	18.14	42	0.39	1.2	0.5	21,000	336,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	62	29.06	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	47.20	16	0.21	1.2	0.7	30,000	480,000
SMB102		Single-family	14	9.58	42	0.39	1.2	0.3	11,000	176,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	86	61.26	0	0.10	1.2	0.5	18,000	288,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	70.84	6	0.14	1.2	0.7	29,000	464,000
SMB103		Single-family	97	17.43	42	0.39	1.2	0.5	20,000	320,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	3	0.52	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	17.95	41	0.38	1.2	0.5	20,000	320,000
SMB104		Single-family	98	31.33	42	0.39	1.2	0.9	36,000	576,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	2	0.69	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	32.02	41	0.38	1.2	0.9	36,000	576,000
SMB105		Single-family	81	52.97	42	0.39	1.2	1.5	61,000	976,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	19	12.60	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	65.57	34	0.33	1.2	1.6	65,000	1,040,000
SMB93		Single-family	46	17.71	42	0.39	1.2	0.5	20,000	320,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	54	20.44	0	0.10	1.2	0.2	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	38.15	19	0.23	1.2	0.7	26,000	416,000
SMB94		Single-family	7	28.06	42	0.39	1.2	0.8	32,000	512,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	93	376.94	0	0.10	1.2	2.8	112,000	1,792,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	405.00	3	0.12	1.2	3.6	144,000	2,304,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB95	Single-family	78	54.41	42	0.39	1.2	1.6	63,000	1,008,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	22	15.42	0	0.10	1.2	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	69.83	33	0.33	1.2	1.7	68,000	1,088,000
	SMB96	Single-family	17	16.76	42	0.39	1.2	0.5	19,000	304,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	83	82.65	0	0.10	1.2	0.6	24,000	384,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	99.41	7	0.15	1.2	1.1	43,000	688,000
14	LFLCN1	Single-family	5	55.14	42	0.39	1.5	2.0	80,000	1,280,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	2	19.66	80	0.66	1.5	1.2	48,000	768,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	94	1,132.27	0	0.10	1.5	10.5	419,000	6,704,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,207.07	3	0.12	1.5	13.7	547,000	8,752,000
	LFLCN2	Single-family	21	149.37	42	0.39	1.2	4.3	173,000	2,768,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	79	568.97	0	0.10	1.2	4.2	169,000	2,704,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	718.34	9	0.16	1.2	8.6	342,000	5,472,000
	LTLFL1	Single-family	3	19.23	42	0.39	1.5	0.7	28,000	448,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	97	708.88	0	0.10	1.5	6.6	262,000	4,192,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	728.11	1	0.11	1.5	7.3	290,000	4,640,000
	SMB106	Single-family	100	51.90	42	0.39	1.2	1.5	60,000	960,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	51.90	42	0.39	1.2	1.5	60,000	960,000
	SMB107	Single-family	26	40.52	42	0.39	1.2	1.2	47,000	752,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	74	114.43	0	0.10	1.2	0.9	34,000	544,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	154.95	11	0.18	1.2	2.0	81,000	1,296,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB108	Single-family	64	23.61	42	0.39	1.2	0.7	27,000	432,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	36	13.26	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	36.87	27	0.29	1.2	0.8	31,000	496,000
	SMB109	Single-family	41	21.26	42	0.39	1.2	0.6	25,000	400,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	59	30.18	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	51.44	17	0.22	1.2	0.8	34,000	544,000
	SMB110	Single-family	50	13.93	42	0.39	1.2	0.4	16,000	256,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	50	13.86	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	27.79	21	0.25	1.2	0.5	20,000	320,000
	SMB111	Single-family	71	48.65	42	0.39	1.2	1.4	56,000	896,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	29	19.87	0	0.10	1.2	0.1	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	68.52	30	0.31	1.2	1.6	62,000	992,000
	SMB112	Single-family	55	38.93	42	0.39	1.2	1.1	45,000	720,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	45	31.41	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	70.34	23	0.26	1.2	1.4	54,000	864,000
	SMB113	Single-family	61	25.42	42	0.39	1.2	0.7	29,000	464,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	39	16.34	0	0.10	1.2	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	41.76	26	0.28	1.2	0.9	34,000	544,000
15	PENA1	Single-family	0	1.68	42	0.39	1.2	0.0	2,000	32,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	481.05	0	0.10	1.2	3.6	142,000	2,272,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	482.73	0	0.10	1.2	3.6	144,000	2,304,000

**TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS**

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
PIEDR1		Single-family	4	15.30	42	0.39	1.2	0.4	18,000	288,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	96	415.55	0	0.10	1.2	3.1	123,000	1,968,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	430.85	1	0.11	1.2	3.5	141,000	2,256,000
SMB114		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	22.73	0	0.10	1.2	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	22.73	0	0.10	1.2	0.2	7,000	112,000
SMB115		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	48.96	0	0.10	1.2	0.4	15,000	240,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	48.96	0	0.10	1.2	0.4	15,000	240,000
SMB121		Single-family	43	8.26	42	0.39	1.2	0.2	10,000	160,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	57	10.76	0	0.10	1.2	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	19.02	18	0.23	1.2	0.3	13,000	208,000
SMB122		Single-family	19	3.36	42	0.39	1.2	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	81	14.69	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	18.05	8	0.15	1.2	0.2	8,000	128,000
SMB123		Single-family	54	4.55	42	0.39	1.0	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	46	3.94	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	8.49	23	0.26	1.0	0.1	5,000	80,000
SMB124		Single-family	0	0.03	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	18.48	0	0.10	1.2	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	18.51	0	0.10	1.2	0.1	5,000	80,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB125		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	22.39	0	0.10	1.2	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	22.39	0	0.10	1.2	0.2	7,000	112,000
SMB126		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	14.31	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	14.31	0	0.10	1.2	0.1	4,000	64,000
SMB127		Single-family	15	2.12	42	0.39	1.2	0.1	2,000	32,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	85	11.97	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	14.09	6	0.14	1.2	0.2	6,000	96,000
SMB128		Single-family	36	7.14	42	0.39	1.2	0.2	8,000	128,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	64	12.49	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	19.63	15	0.21	1.2	0.3	12,000	192,000
TUNA1		Single-family	3	24.59	42	0.39	1.3	0.8	31,000	496,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	97	909.86	0	0.10	1.3	7.3	292,000	4,672,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	934.45	1	0.11	1.3	8.1	323,000	5,168,000
16	BROOK1	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	172.65	0	0.10	1.2	1.3	51,000	816,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	172.65	0	0.10	1.2	1.3	51,000	816,000
	DIX1	Single-family	43	123.98	42	0.39	1.5	4.5	179,000	2,864,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	57	167.35	0	0.10	1.5	1.6	62,000	992,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	291.33	18	0.22	1.5	6.1	241,000	3,856,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
GARAP1		Single-family	3	41.38	42	0.39	1.6	1.6	64,000	1,024,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	97	1,184.37	0	0.10	1.6	11.7	468,000	7,488,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,225.75	1	0.11	1.6	13.3	532,000	8,512,000
GRNLF		Single-family	1	8.51	42	0.39	1.6	0.3	13,000	208,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	99	596.47	0	0.10	1.6	5.9	236,000	3,776,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	604.98	1	0.10	1.6	6.2	249,000	3,984,000
HONDO1		Single-family	3	16.62	42	0.39	1.6	0.6	26,000	416,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	97	469.97	0	0.10	1.6	4.7	186,000	2,976,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	486.59	1	0.11	1.6	5.3	212,000	3,392,000
OTPNG1		Single-family	11	131.93	42	0.39	1.6	5.1	203,000	3,248,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	89	1,025.61	0	0.10	1.6	10.2	405,000	6,480,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,157.54	5	0.13	1.6	15.3	608,000	9,728,000
OTPNG2		Single-family	5	47.77	42	0.39	1.0	1.2	46,000	736,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	95	857.40	0	0.10	1.6	8.5	339,000	5,424,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	905.17	2	0.12	1.6	9.7	385,000	6,160,000
OTPNG3		Single-family	17	79.70	42	0.39	1.6	3.1	123,000	1,968,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	83	379.72	0	0.10	1.6	3.8	150,000	2,400,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	459.42	7	0.15	1.6	6.9	273,000	4,368,000
RDRCK1		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	570.17	0	0.10	1.6	5.7	225,000	3,600,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	570.17	0	0.10	1.6	5.7	225,000	3,600,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB129		Single-family	77	14.62	42	0.39	1.2	0.4	17,000	272,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	23	4.27	0	0.10	1.2	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	18.89	33	0.32	1.2	0.5	18,000	288,000
SNMRA1		Single-family	0	0.38	42	0.39	1.6	0.0	1,000	16,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	601.12	0	0.10	1.6	6.0	237,000	3,792,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	601.50	0	0.10	1.6	6.0	238,000	3,808,000
TPNGA1		Single-family	14	208.49	42	0.39	1.6	8.1	321,000	5,136,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	86	1,252.69	0	0.10	1.6	12.4	495,000	7,920,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,461.18	6	0.14	1.6	20.5	816,000	13,056,000
TPNGA2		Single-family	34	63.29	42	0.39	1.6	2.4	97,000	1,552,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	66	120.58	0	0.10	1.6	1.2	48,000	768,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	183.87	14	0.20	1.6	3.6	145,000	2,320,000
TPNGA3		Single-family	22	286.13	42	0.39	1.6	11.1	441,000	7,056,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	78	1,034.93	0	0.10	1.6	10.3	409,000	6,544,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,321.06	9	0.16	1.6	21.3	850,000	13,600,000
TPNGA4		Single-family	78	103.38	42	0.39	1.6	4.0	159,000	2,544,000
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	22	29.79	0	0.10	1.6	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	133.17	33	0.33	1.6	4.3	171,000	2,736,000
TPNGA5		Single-family	21	201.95	42	0.39	1.5	7.3	292,000	4,672,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	79	760.28	0	0.10	1.5	7.1	282,000	4,512,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	962.23	9	0.16	1.5	14.4	574,000	9,184,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	TPNGA6	Single-family	4	76.42	42	0.39	1.5	2.8	110,000	1,760,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	96	1,728.34	0	0.10	1.5	16.1	640,000	10,240,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
Catchment Total		100	1,804.76	2	0.11	1.5	18.8	750,000	12,000,000	
	TPNGA7	Single-family	21	52.21	42	0.39	1.2	1.5	60,000	960,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	79	193.22	0	0.10	1.2	1.4	57,000	912,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	245.43	9	0.16	1.2	3.0	117,000	1,872,000	
17	PARKR1	Single-family	43	159.56	42	0.39	1.2	4.6	184,000	2,944,000
		Multi-family	3	12.61	68	0.58	1.2	0.5	22,000	352,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	7	24.46	80	0.66	1.2	1.2	48,000	768,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	47	177.75	0	0.10	1.2	1.3	53,000	848,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	374.38	25	0.28	1.2	7.7	307,000	4,912,000	
	QUARY1	Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	526.42	0	0.10	1.6	5.2	208,000	3,328,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
Catchment Total		100	526.42	0	0.10	1.6	5.2	208,000	3,328,000	
	SMB130	Single-family	7	1.94	42	0.39	1.2	0.1	2,000	32,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	93	24.42	0	0.10	1.2	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	26.36	3	0.12	1.2	0.2	9,000	144,000	
	SMB131	Single-family	95	49.11	42	0.39	1.2	1.4	57,000	912,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	5	2.64	0	0.10	1.2	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	51.75	40	0.38	1.2	1.4	58,000	928,000	
	SMB132	Single-family	100	20.66	42	0.39	1.2	0.6	24,000	384,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total		100	20.66	42	0.39	1.2	0.6	24,000	384,000	

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SYNEZ1	Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	1,294.24	0	0.10	1.6	12.8	511,000	8,176,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,294.24	0	0.10	1.6	12.8	511,000	8,176,000
	SYNEZ2	Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	3	1.89	68	0.58	1.6	0.1	4,000	64,000
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	97	66.95	0	0.10	1.6	0.7	26,000	416,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	68.84	2	0.11	1.6	0.8	30,000	480,000
	SYNEZ3	Single-family	18	400.76	42	0.39	1.3	12.6	502,000	8,032,000
		Multi-family	2	39.03	68	0.58	1.3	1.8	73,000	1,168,000
		Commercial	1	14.67	92	0.74	1.3	0.9	35,000	560,000
		Public	1	27.34	80	0.66	1.3	1.5	58,000	928,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	7	147.70	80	0.66	1.3	7.9	313,000	5,008,000
		Open	72	1,623.01	0	0.10	1.3	13.1	521,000	8,336,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,252.51	15	0.21	1.3	37.7	1,502,000	24,032,000
	TRLER1	Single-family	9	31.38	42	0.39	1.6	1.2	48,000	768,000
		Multi-family	3	8.80	68	0.58	1.6	0.5	20,000	320,000
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	1.69	80	0.66	1.6	0.1	4,000	64,000
		Open	88	301.84	0	0.10	1.6	3.0	119,000	1,904,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	343.71	6	0.14	1.6	4.8	191,000	3,056,000
18	PULGA1	Single-family	62	612.68	42	0.39	1.3	19.3	767,000	12,272,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	2	19.03	80	0.66	1.3	1.0	40,000	640,000
		Open	36	360.79	0	0.10	1.3	2.9	116,000	1,856,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	992.50	27	0.29	1.3	23.2	923,000	14,768,000
	SMB133	Single-family	69	112.24	42	0.39	1.2	3.3	130,000	2,080,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	3	5.09	80	0.66	1.2	0.2	10,000	160,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	28	44.60	0	0.10	1.2	0.3	13,000	208,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	161.93	32	0.32	1.2	3.8	153,000	2,448,000
	SMB134	Single-family	64	34.26	42	0.39	1.2	1.0	40,000	640,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	36	19.08	0	0.10	1.2	0.1	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	53.34	27	0.29	1.2	1.1	46,000	736,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB135		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	100	33.69	0	0.10	1.2	0.3	10,000	160,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	33.69	0	0.10	1.2	0.3	10,000	160,000
TEMES1		Single-family	10	162.34	42	0.39	1.3	5.1	203,000	3,248,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	4.46	92	0.74	1.3	0.3	11,000	176,000
		Public	2	30.07	80	0.66	1.3	1.6	64,000	1,024,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	6.64	80	0.66	1.3	0.4	14,000	224,000
		Open	87	1,378.32	0	0.10	1.3	11.1	442,000	7,072,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,581.83	6	0.14	1.3	18.4	734,000	11,744,000
19	MNDLV1	Single-family	21	494.24	42	0.39	1.5	17.9	714,000	11,424,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	7.27	80	0.66	1.5	0.4	18,000	288,000
		Open	79	1,850.33	0	0.10	1.5	17.2	685,000	10,960,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	2,351.84	9	0.16	1.5	35.6	1,417,000	22,672,000
RIVAS1		Single-family	14	95.86	42	0.39	1.3	3.0	120,000	1,920,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	6	44.37	80	0.66	1.3	2.4	94,000	1,504,000
		Open	80	557.60	0	0.10	1.3	4.5	179,000	2,864,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	697.83	11	0.18	1.3	9.9	393,000	6,288,000
RUSTC1		Single-family	0	0.00	42	0.39	1.6	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.6	0.0	0	0
		Commercial	0	0.00	92	0.74	1.6	0.0	0	0
		Public	0	0.00	80	0.66	1.6	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.6	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.6	0.0	0	0
		Open	100	1,491.47	0	0.10	1.6	14.8	589,000	9,424,000
		Unknown	0	0.00	65	0.56	1.6	0.0	0	0
		Catchment Total	100	1,491.47	0	0.10	1.6	14.8	589,000	9,424,000
RUSTC2		Single-family	8	163.46	42	0.39	1.5	5.9	236,000	3,776,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	92	1,989.20	0	0.10	1.5	18.5	737,000	11,792,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	2,152.66	3	0.12	1.5	24.4	973,000	15,568,000
RUSTC3		Single-family	97	334.25	42	0.39	1.2	9.7	386,000	6,176,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	3	9.84	92	0.74	1.2	0.5	22,000	352,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	344.09	43	0.40	1.2	10.2	408,000	6,528,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SLLVN4		Single-family	10	176.17	42	0.39	1.5	6.4	254,000	4,064,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	90	1,642.37	0	0.10	1.5	15.3	608,000	9,728,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,818.54	4	0.13	1.5	21.7	862,000	13,792,000
SMB136		Single-family	59	40.33	42	0.39	1.2	1.2	47,000	752,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	41	28.27	0	0.10	1.2	0.2	8,000	128,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	68.60	25	0.27	1.2	1.4	55,000	880,000
SMB137		Single-family	12	4.32	42	0.39	1.2	0.1	5,000	80,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	1	0.55	92	0.74	1.2	0.0	1,000	16,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	87	32.69	0	0.10	1.2	0.2	10,000	160,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	37.56	6	0.14	1.2	0.4	16,000	256,000
SMB138		Single-family	32	11.92	42	0.39	1.2	0.3	14,000	224,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.01	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	68	24.83	0	0.10	1.2	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	36.76	14	0.19	1.2	0.5	21,000	336,000
SMB142		Single-family	73	219.13	42	0.39	1.2	6.4	253,000	4,048,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	5	14.63	92	0.74	1.2	0.8	32,000	512,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	22	65.74	0	0.10	1.2	0.5	19,000	304,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	299.50	35	0.34	1.2	7.7	304,000	4,864,000
SNMON1		Single-family	78	887.23	42	0.39	1.2	25.7	1,025,000	16,400,000
		Multi-family	3	34.87	68	0.58	1.2	1.5	60,000	960,000
		Commercial	3	29.72	92	0.74	1.2	1.6	65,000	1,040,000
		Public	3	32.48	80	0.66	1.2	1.6	63,000	1,008,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	13	149.08	0	0.10	1.2	1.1	44,000	704,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	1,133.38	40	0.37	1.2	31.6	1,257,000	20,112,000
SNMON2		Single-family	87	88.77	42	0.39	1.2	2.6	103,000	1,648,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	8	8.33	92	0.74	1.2	0.5	18,000	288,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	5	5.46	0	0.10	1.2	0.0	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	102.56	44	0.40	1.2	3.1	123,000	1,968,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
20	BI248	Single-family	89	544.24	42	0.39	1.2	15.8	629,000	10,064,000
		Multi-family	9	54.53	68	0.58	1.2	2.4	94,000	1,504,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	2	13.00	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	611.77	43	0.40	1.2	18.2	727,000	11,632,000
	BI249C	Single-family	2	10.93	42	0.39	1.0	0.3	11,000	176,000
		Multi-family	59	296.85	68	0.58	1.0	10.7	425,000	6,800,000
		Commercial	5	23.95	92	0.74	1.0	1.1	44,000	704,000
		Public	12	61.56	80	0.66	1.0	2.5	100,000	1,600,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	3	14.66	80	0.66	1.0	0.6	24,000	384,000
		Open	19	97.58	0	0.10	1.0	0.6	24,000	384,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	505.53	57	0.50	1.0	15.8	628,000	10,048,000
	BI249D	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	91	68.79	92	0.74	1.2	3.8	151,000	2,416,000
		Public	0	0.26	80	0.66	1.2	0.0	1,000	16,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	9	6.52	0	0.10	1.2	0.0	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	75.57	84	0.68	1.2	3.8	154,000	2,464,000
	BI46	Single-family	61	1,175.98	42	0.39	1.0	28.4	1,132,000	18,112,000
		Multi-family	15	287.09	68	0.58	1.0	10.3	411,000	6,576,000
		Commercial	1	16.45	92	0.74	1.0	0.8	30,000	480,000
		Public	4	83.12	80	0.66	1.0	3.4	135,000	2,160,000
		Light Industrial	0	7.47	91	0.74	1.0	0.3	14,000	224,000
		Other Urban	10	183.32	80	0.66	1.0	7.5	299,000	4,784,000
		Open	8	161.12	0	0.10	1.0	1.0	40,000	640,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	1,914.55	48	0.44	1.0	51.8	2,061,000	32,976,000
	BI507A	Single-family	100	226.69	42	0.39	1.0	5.5	218,000	3,488,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	226.69	42	0.39	1.0	5.5	218,000	3,488,000
	BI507G	Single-family	74	96.49	42	0.39	1.0	2.3	93,000	1,488,000
		Multi-family	17	21.77	68	0.58	1.0	0.8	31,000	496,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	9	11.41	80	0.66	1.0	0.5	19,000	304,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	129.67	50	0.45	1.0	3.6	143,000	2,288,000
	BI577	Single-family	5	27.38	42	0.39	1.2	0.8	32,000	512,000
		Multi-family	74	437.21	68	0.58	1.2	18.9	751,000	12,016,000
		Commercial	16	95.78	92	0.74	1.2	5.3	210,000	3,360,000
		Public	2	13.94	80	0.66	1.2	0.7	27,000	432,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	3	14.75	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	589.06	69	0.59	1.2	25.7	1,024,000	16,384,000

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LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI736		Single-family	20	38.92	42	0.39	1.0	0.9	37,000	592,000
		Multi-family	73	142.03	68	0.58	1.0	5.1	203,000	3,248,000
		Commercial	3	5.68	92	0.74	1.0	0.3	10,000	160,000
		Public	0	0.06	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.64	91	0.74	1.0	0.0	1,000	16,000
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	4	8.50	0	0.10	1.0	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	195.83	61	0.53	1.0	6.4	253,000	4,048,000
BUNDY1		Single-family	16	81.22	42	0.39	1.5	2.9	117,000	1,872,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	1	7.17	80	0.66	1.5	0.4	18,000	288,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	2	10.27	80	0.66	1.5	0.6	25,000	400,000
		Open	80	399.58	0	0.10	1.5	3.7	148,000	2,368,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	498.24	10	0.17	1.5	7.7	308,000	4,928,000
BUNDY2		Single-family	42	61.60	42	0.39	1.5	2.2	89,000	1,424,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	5	7.24	80	0.66	1.5	0.4	18,000	288,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	53	78.75	0	0.10	1.5	0.7	29,000	464,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	147.59	21	0.25	1.5	3.4	136,000	2,176,000
BUNDY3		Single-family	83	183.48	42	0.39	1.3	5.8	230,000	3,680,000
		Multi-family	10	22.34	68	0.58	1.3	1.0	42,000	672,000
		Commercial	1	1.15	92	0.74	1.3	0.1	3,000	48,000
		Public	6	14.28	80	0.66	1.3	0.8	30,000	480,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.92	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	222.17	47	0.43	1.3	7.6	305,000	4,880,000
KENTR1		Single-family	65	633.68	42	0.39	1.3	19.9	793,000	12,688,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.71	80	0.66	1.3	0.0	2,000	32,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	35	342.57	0	0.10	1.3	2.8	110,000	1,760,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	976.96	27	0.29	1.3	22.7	905,000	14,480,000
KENTR2		Single-family	51	144.43	42	0.39	1.2	4.2	167,000	2,672,000
		Multi-family	24	67.34	68	0.58	1.2	2.9	116,000	1,856,000
		Commercial	15	40.98	92	0.74	1.2	2.3	90,000	1,440,000
		Public	3	8.74	80	0.66	1.2	0.4	17,000	272,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	7	21.09	0	0.10	1.2	0.2	6,000	96,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	282.58	53	0.47	1.2	9.9	396,000	6,336,000
KENTR3		Single-family	78	438.28	42	0.39	1.2	12.7	506,000	8,096,000
		Multi-family	2	11.07	68	0.58	1.2	0.5	19,000	304,000
		Commercial	1	6.32	92	0.74	1.2	0.3	14,000	224,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	18	102.68	0	0.10	1.2	0.8	30,000	480,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	558.35	35	0.34	1.2	14.3	569,000	9,104,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
KENTR4	Single-family	25	355.99	42	0.39	1.2	10.3	411,000	6,576,000	
	Multi-family	32	460.77	68	0.58	1.2	19.9	792,000	12,672,000	
	Commercial	19	267.26	92	0.74	1.2	14.7	586,000	9,376,000	
	Public	2	25.90	80	0.66	1.2	1.3	51,000	816,000	
	Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0	
	Other Urban	0	6.98	80	0.66	1.2	0.3	14,000	224,000	
	Open	22	323.38	0	0.10	1.2	2.4	96,000	1,536,000	
	Unknown	0	0.00	65	0.56	1.2	0.0	0	0	
Catchment Total	100	1,440.28	51	0.46	1.2	48.9	1,950,000	31,200,000		
LA4798	Single-family	80	260.42	42	0.39	1.0	6.3	251,000	4,016,000	
	Multi-family	11	37.31	68	0.58	1.0	1.3	53,000	848,000	
	Commercial	4	13.71	92	0.74	1.0	0.6	25,000	400,000	
	Public	0	0.00	80	0.66	1.0	0.0	0	0	
	Light Industrial	5	15.79	91	0.74	1.0	0.7	29,000	464,000	
	Other Urban	0	0.00	80	0.66	1.0	0.0	0	0	
	Open	0	0.00	0	0.10	1.0	0.0	0	0	
	Unknown	0	0.00	65	0.56	1.0	0.0	0	0	
Catchment Total	100	327.23	49	0.44	1.0	9.0	358,000	5,728,000		
SMB139	Single-family	0	0.00	42	0.39	1.2	0.0	0	0	
	Multi-family	0	0.00	68	0.58	1.2	0.0	0	0	
	Commercial	0	0.00	92	0.74	1.2	0.0	0	0	
	Public	0	0.00	80	0.66	1.2	0.0	0	0	
	Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0	
	Other Urban	0	0.00	80	0.66	1.2	0.0	0	0	
	Open	100	62.26	0	0.10	1.2	0.5	18,000	288,000	
	Unknown	0	0.00	65	0.56	1.2	0.0	0	0	
Catchment Total	100	62.26	0	0.10	1.2	0.5	18,000	288,000		
SMB140	Single-family	0	0.00	42	0.39	1.2	0.0	0	0	
	Multi-family	0	0.00	68	0.58	1.2	0.0	0	0	
	Commercial	0	0.00	92	0.74	1.2	0.0	0	0	
	Public	0	0.00	80	0.66	1.2	0.0	0	0	
	Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0	
	Other Urban	0	0.00	80	0.66	1.2	0.0	0	0	
	Open	100	26.26	0	0.10	1.2	0.2	8,000	128,000	
	Unknown	0	0.00	65	0.56	1.2	0.0	0	0	
Catchment Total	100	26.26	0	0.10	1.2	0.2	8,000	128,000		
SMB141	Single-family	0	0.00	42	0.39	1.2	0.0	0	0	
	Multi-family	0	0.00	68	0.58	1.2	0.0	0	0	
	Commercial	0	0.00	92	0.74	1.2	0.0	0	0	
	Public	0	0.00	80	0.66	1.2	0.0	0	0	
	Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0	
	Other Urban	0	0.00	80	0.66	1.2	0.0	0	0	
	Open	99	70.78	0	0.10	1.2	0.5	21,000	336,000	
	Unknown	1	0.99	65	0.56	1.2	0.0	2,000	32,000	
Catchment Total	100	71.77	1	0.11	1.2	0.6	23,000	368,000		
SMB143	Single-family	4	2.75	42	0.39	1.0	0.1	3,000	48,000	
	Multi-family	93	69.37	68	0.58	1.0	2.5	99,000	1,584,000	
	Commercial	0	0.00	92	0.74	1.0	0.0	0	0	
	Public	0	0.00	80	0.66	1.0	0.0	0	0	
	Light Industrial	2	1.35	91	0.74	1.0	0.1	2,000	32,000	
	Other Urban	0	0.00	80	0.66	1.0	0.0	0	0	
	Open	2	1.50	0	0.10	1.0	0.0	0	0	
	Unknown	0	0.00	65	0.56	1.0	0.0	0	0	
Catchment Total	100	74.97	66	0.57	1.0	2.6	104,000	1,664,000		
21	BI11021	Single-family	64	835.97	42	0.39	1.2	24.3	966,000	15,456,000
		Multi-family	22	288.74	68	0.58	1.2	12.5	496,000	7,936,000
		Commercial	6	72.48	92	0.74	1.2	4.0	159,000	2,544,000
		Public	4	50.64	80	0.66	1.2	2.5	99,000	1,584,000
		Light Industrial	2	32.02	91	0.74	1.2	1.8	70,000	1,120,000
		Other Urban	1	18.67	80	0.66	1.2	0.9	36,000	576,000
		Open	0	0.26	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
Catchment Total	100	1,298.78	54	0.47	1.2	45.9	1,826,000	29,216,000		

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI11022		Single-family	2	2.38	42	0.39	1.2	0.1	3,000	48,000
		Multi-family	90	128.02	68	0.58	1.2	5.5	220,000	3,520,000
		Commercial	2	3.31	92	0.74	1.2	0.2	7,000	112,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	5	7.15	91	0.74	1.2	0.4	16,000	256,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	1	0.74	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	141.60	69	0.59	1.2	6.2	246,000	3,936,000
BI11023		Single-family	19	158.72	42	0.39	1.2	4.6	183,000	2,928,000
		Multi-family	56	468.86	68	0.58	1.2	20.2	806,000	12,896,000
		Commercial	11	87.98	92	0.74	1.2	4.8	193,000	3,088,000
		Public	9	71.63	80	0.66	1.2	3.5	140,000	2,240,000
		Light Industrial	0	3.61	91	0.74	1.2	0.2	8,000	128,000
		Other Urban	3	23.86	80	0.66	1.2	1.2	47,000	752,000
		Open	2	18.02	0	0.10	1.2	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	832.68	66	0.56	1.2	34.7	1,382,000	22,112,000
BI273		Single-family	53	1,169.61	42	0.39	1.0	28.3	1,126,000	18,016,000
		Multi-family	17	370.77	68	0.58	1.0	13.3	531,000	8,496,000
		Commercial	5	115.23	92	0.74	1.0	5.3	210,000	3,360,000
		Public	4	94.04	80	0.66	1.0	3.8	153,000	2,448,000
		Light Industrial	6	129.10	91	0.74	1.0	5.9	236,000	3,776,000
		Other Urban	8	178.03	80	0.66	1.0	7.3	290,000	4,640,000
		Open	6	136.73	0	0.10	1.0	0.8	34,000	544,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	2,193.51	54	0.48	1.0	64.8	2,580,000	41,280,000
BI2901		Single-family	63	157.48	42	0.39	1.2	4.6	182,000	2,912,000
		Multi-family	4	9.73	68	0.58	1.2	0.4	17,000	272,000
		Commercial	9	22.34	92	0.74	1.2	1.2	49,000	784,000
		Public	5	11.32	80	0.66	1.2	0.6	22,000	352,000
		Light Industrial	16	40.12	91	0.74	1.2	2.2	88,000	1,408,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	3	7.86	0	0.10	1.2	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	248.85	56	0.49	1.2	9.0	360,000	5,760,000
BI2950		Single-family	100	23.15	42	0.39	1.2	0.7	27,000	432,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	23.15	42	0.39	1.2	0.7	27,000	432,000
BI411		Single-family	65	272.19	42	0.39	1.2	7.9	314,000	5,024,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	35	143.64	0	0.10	1.2	1.1	43,000	688,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	415.83	27	0.29	1.2	9.0	357,000	5,712,000
BI4241		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	11	9.71	91	0.74	1.2	0.5	21,000	336,000
		Other Urban	75	63.89	80	0.66	1.2	3.1	125,000	2,000,000
		Open	13	11.21	0	0.10	1.2	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	84.81	71	0.60	1.2	3.8	149,000	2,384,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI4242		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	7	6.59	68	0.58	1.2	0.3	11,000	176,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	33	30.93	91	0.74	1.2	1.7	68,000	1,088,000
		Other Urban	59	55.02	80	0.66	1.2	2.7	108,000	1,728,000
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	92.54	83	0.68	1.2	4.7	187,000	2,992,000
BI4243		Single-family	11	30.63	42	0.39	1.2	0.9	35,000	560,000
		Multi-family	25	66.51	68	0.58	1.2	2.9	114,000	1,824,000
		Commercial	2	4.71	92	0.74	1.2	0.3	10,000	160,000
		Public	29	77.58	80	0.66	1.2	3.8	152,000	2,432,000
		Light Industrial	7	19.46	91	0.74	1.2	1.1	43,000	688,000
		Other Urban	20	54.42	80	0.66	1.2	2.7	106,000	1,696,000
		Open	6	17.12	0	0.10	1.2	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	270.43	69	0.58	1.2	11.7	465,000	7,440,000
BI425		Single-family	46	80.06	42	0.39	1.2	2.3	92,000	1,472,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	8	13.19	92	0.74	1.2	0.7	29,000	464,000
		Public	1	1.19	80	0.66	1.2	0.1	2,000	32,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	31	53.55	80	0.66	1.2	2.6	105,000	1,680,000
		Open	14	24.54	0	0.10	1.2	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	172.53	52	0.46	1.2	5.9	235,000	3,760,000
BI485		Single-family	76	652.40	42	0.39	1.2	18.9	754,000	12,064,000
		Multi-family	6	47.63	68	0.58	1.2	2.1	82,000	1,312,000
		Commercial	6	53.48	92	0.74	1.2	2.9	117,000	1,872,000
		Public	12	100.95	80	0.66	1.2	5.0	197,000	3,152,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	854.46	51	0.45	1.2	28.9	1,150,000	18,400,000
BI487		Single-family	80	368.98	42	0.39	1.2	10.7	426,000	6,816,000
		Multi-family	3	11.85	68	0.58	1.2	0.5	20,000	320,000
		Commercial	13	60.66	92	0.74	1.2	3.3	133,000	2,128,000
		Public	1	3.22	80	0.66	1.2	0.2	6,000	96,000
		Light Industrial	3	15.38	91	0.74	1.2	0.8	34,000	544,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	460.09	51	0.45	1.2	15.6	619,000	9,904,000
BI4881		Single-family	91	410.06	42	0.39	1.0	9.9	395,000	6,320,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.56	92	0.74	1.0	0.0	1,000	16,000
		Public	9	39.59	80	0.66	1.0	1.6	64,000	1,024,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	450.21	45	0.41	1.0	11.6	460,000	7,360,000
BI4882		Single-family	89	198.65	42	0.39	1.0	4.8	191,000	3,056,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	10	23.18	92	0.74	1.0	1.1	42,000	672,000
		Public	1	2.20	80	0.66	1.0	0.1	4,000	64,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	224.03	48	0.43	1.0	6.0	237,000	3,792,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI4883		Single-family	83	2,256.36	42	0.39	1.0	54.6	2,172,000	34,752,000
		Multi-family	3	86.14	68	0.58	1.0	3.1	123,000	1,968,000
		Commercial	2	44.35	92	0.74	1.0	2.0	81,000	1,296,000
		Public	3	84.75	80	0.66	1.0	3.5	138,000	2,208,000
		Light Industrial	5	136.98	91	0.74	1.0	6.3	250,000	4,000,000
		Other Urban	1	35.44	80	0.66	1.0	1.5	58,000	928,000
		Open	2	61.40	0	0.10	1.0	0.4	15,000	240,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	2,705.42	47	0.42	1.0	71.3	2,837,000	45,392,000
BI494		Single-family	80	255.84	42	0.39	1.3	8.0	320,000	5,120,000
		Multi-family	9	29.57	68	0.58	1.3	1.4	55,000	880,000
		Commercial	11	33.90	92	0.74	1.3	2.0	80,000	1,280,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.00	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	319.31	50	0.44	1.3	11.4	455,000	7,280,000
BI496		Single-family	7	36.98	42	0.39	1.3	1.2	46,000	736,000
		Multi-family	0	0.00	68	0.58	1.3	0.0	0	0
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	93	456.22	0	0.10	1.3	3.7	146,000	2,336,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	493.20	3	0.12	1.3	4.8	192,000	3,072,000
BI4971		Single-family	58	580.33	42	0.39	1.5	21.0	838,000	13,408,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.25	80	0.66	1.5	0.0	1,000	16,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	42	421.32	0	0.10	1.5	3.9	156,000	2,496,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,001.90	24	0.27	1.5	25.0	995,000	15,920,000
BI4972		Single-family	59	1,429.36	42	0.39	1.3	44.9	1,789,000	28,624,000
		Multi-family	16	383.63	68	0.58	1.3	17.9	714,000	11,424,000
		Commercial	6	151.40	92	0.74	1.3	9.0	360,000	5,760,000
		Public	2	53.18	80	0.66	1.3	2.8	113,000	1,808,000
		Light Industrial	4	92.86	91	0.74	1.3	5.5	221,000	3,536,000
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	12	295.18	0	0.10	1.3	2.4	95,000	1,520,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,405.61	47	0.43	1.3	82.6	3,292,000	52,672,000
BI498		Single-family	33	111.64	42	0.39	1.3	3.5	140,000	2,240,000
		Multi-family	12	42.02	68	0.58	1.3	2.0	78,000	1,248,000
		Commercial	0	0.55	92	0.74	1.3	0.0	1,000	16,000
		Public	14	47.15	80	0.66	1.3	2.5	100,000	1,600,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	1	3.36	80	0.66	1.3	0.2	7,000	112,000
		Open	39	131.66	0	0.10	1.3	1.1	42,000	672,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	336.38	35	0.34	1.3	9.3	368,000	5,888,000
BI503		Single-family	70	138.45	42	0.39	1.0	3.3	133,000	2,128,000
		Multi-family	25	49.75	68	0.58	1.0	1.8	71,000	1,136,000
		Commercial	3	5.36	92	0.74	1.0	0.2	10,000	160,000
		Public	3	5.23	80	0.66	1.0	0.2	9,000	144,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	198.79	51	0.45	1.0	5.6	223,000	3,568,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI504		Single-family	74	340.50	42	0.39	1.0	8.2	328,000	5,248,000
		Multi-family	20	94.12	68	0.58	1.0	3.4	135,000	2,160,000
		Commercial	5	21.61	92	0.74	1.0	1.0	39,000	624,000
		Public	1	3.78	80	0.66	1.0	0.2	6,000	96,000
		Light Industrial	1	2.73	91	0.74	1.0	0.1	5,000	80,000
		Other Urban	0	0.05	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	462.79	50	0.45	1.0	12.9	513,000	8,208,000
BI505		Single-family	86	175.71	42	0.39	1.0	4.2	169,000	2,704,000
		Multi-family	4	8.64	68	0.58	1.0	0.3	12,000	192,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	7	15.23	91	0.74	1.0	0.7	28,000	448,000
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	2	3.84	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	203.42	46	0.42	1.0	5.3	210,000	3,360,000
BI51		Single-family	63	323.05	42	0.39	1.0	7.8	311,000	4,976,000
		Multi-family	19	97.29	68	0.58	1.0	3.5	139,000	2,224,000
		Commercial	9	44.15	92	0.74	1.0	2.0	81,000	1,296,000
		Public	7	36.69	80	0.66	1.0	1.5	60,000	960,000
		Light Industrial	1	6.51	91	0.74	1.0	0.3	12,000	192,000
		Other Urban	0	0.94	80	0.66	1.0	0.0	2,000	32,000
		Open	2	8.11	0	0.10	1.0	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	516.74	54	0.48	1.0	15.2	607,000	9,712,000
BI52		Single-family	42	277.67	42	0.39	1.2	8.1	321,000	5,136,000
		Multi-family	38	255.16	68	0.58	1.2	11.0	438,000	7,008,000
		Commercial	9	61.15	92	0.74	1.2	3.4	134,000	2,144,000
		Public	1	4.01	80	0.66	1.2	0.2	8,000	128,000
		Light Industrial	8	52.32	91	0.74	1.2	2.9	115,000	1,840,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	2	15.31	0	0.10	1.2	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	665.62	60	0.52	1.2	25.6	1,021,000	16,336,000
BI52041		Single-family	0	3.41	42	0.39	1.2	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	47	510.46	92	0.74	1.2	28.1	1,119,000	17,904,000
		Public	1	9.17	80	0.66	1.2	0.5	18,000	288,000
		Light Industrial	35	378.49	91	0.74	1.2	20.8	830,000	13,280,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	17	180.19	65	0.56	1.2	7.5	299,000	4,784,000
		Catchment Total	100	1,081.72	87	0.71	1.2	57.0	2,270,000	36,320,000
BI52042		Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.21	68	0.58	1.2	0.0	0	0
		Commercial	7	29.95	92	0.74	1.2	1.6	66,000	1,056,000
		Public	23	102.19	80	0.66	1.2	5.0	200,000	3,200,000
		Light Industrial	70	309.48	91	0.74	1.2	17.0	678,000	10,848,000
		Other Urban	0	0.45	80	0.66	1.2	0.0	1,000	16,000
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	442.28	89	0.72	1.2	23.7	945,000	15,120,000
BI52043		Single-family	24	697.30	42	0.39	1.2	20.2	806,000	12,896,000
		Multi-family	33	975.31	68	0.58	1.2	42.1	1,676,000	26,816,000
		Commercial	21	603.67	92	0.74	1.2	33.2	1,323,000	21,168,000
		Public	10	295.56	80	0.66	1.2	14.5	578,000	9,248,000
		Light Industrial	7	213.87	91	0.74	1.2	11.8	469,000	7,504,000
		Other Urban	3	98.38	80	0.66	1.2	4.8	192,000	3,072,000
		Open	2	50.42	0	0.10	1.2	0.4	15,000	240,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	2,934.51	69	0.58	1.2	127.0	5,059,000	80,944,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI52044		Single-family	72	723.81	42	0.39	1.2	21.0	836,000	13,376,000
		Multi-family	14	140.26	68	0.58	1.2	6.1	241,000	3,856,000
		Commercial	9	89.95	92	0.74	1.2	5.0	197,000	3,152,000
		Public	2	17.02	80	0.66	1.2	0.8	33,000	528,000
		Light Industrial	3	33.95	91	0.74	1.2	1.9	74,000	1,184,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	1,004.99	52	0.46	1.2	34.7	1,381,000	22,096,000
BI5212		Single-family	17	108.45	42	0.39	1.2	3.1	125,000	2,000,000
		Multi-family	63	401.47	68	0.58	1.2	17.3	690,000	11,040,000
		Commercial	11	67.25	92	0.74	1.2	3.7	147,000	2,352,000
		Public	7	44.90	80	0.66	1.2	2.2	88,000	1,408,000
		Light Industrial	1	6.59	91	0.74	1.2	0.4	14,000	224,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	1	5.64	0	0.10	1.2	0.0	2,000	32,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	634.30	67	0.57	1.2	26.8	1,066,000	17,056,000
BI5213		Single-family	77	623.09	42	0.39	1.2	18.1	720,000	11,520,000
		Multi-family	16	125.89	68	0.58	1.2	5.4	216,000	3,456,000
		Commercial	1	4.63	92	0.74	1.2	0.3	10,000	160,000
		Public	1	6.70	80	0.66	1.2	0.3	13,000	208,000
		Light Industrial	2	13.34	91	0.74	1.2	0.7	29,000	464,000
		Other Urban	0	3.97	80	0.66	1.2	0.2	8,000	128,000
		Open	4	31.78	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	809.40	46	0.42	1.2	25.3	1,005,000	16,080,000
BI5237		Single-family	54	230.87	42	0.39	1.5	8.4	333,000	5,328,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	46	194.61	0	0.10	1.5	1.8	72,000	1,152,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	425.48	23	0.26	1.5	10.2	405,000	6,480,000
BI5238		Single-family	93	230.41	42	0.39	1.5	8.4	333,000	5,328,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	7	17.75	0	0.10	1.5	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	248.16	39	0.37	1.5	8.5	340,000	5,440,000
BI5243		Single-family	59	402.53	42	0.39	1.0	9.7	388,000	6,208,000
		Multi-family	6	40.77	68	0.58	1.0	1.5	58,000	928,000
		Commercial	7	46.12	92	0.74	1.0	2.1	84,000	1,344,000
		Public	9	58.76	80	0.66	1.0	2.4	96,000	1,536,000
		Light Industrial	18	123.65	91	0.74	1.0	5.7	226,000	3,616,000
		Other Urban	0	0.15	80	0.66	1.0	0.0	0	0
		Open	1	9.23	0	0.10	1.0	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	681.21	59	0.51	1.0	21.5	854,000	13,664,000
BI54		Single-family	61	593.85	42	0.39	1.3	18.7	743,000	11,888,000
		Multi-family	25	241.42	68	0.58	1.3	11.3	449,000	7,184,000
		Commercial	7	66.66	92	0.74	1.3	4.0	158,000	2,528,000
		Public	3	27.35	80	0.66	1.3	1.5	58,000	928,000
		Light Industrial	1	7.74	91	0.74	1.3	0.5	18,000	288,000
		Other Urban	2	19.48	80	0.66	1.3	1.0	41,000	656,000
		Open	1	12.87	0	0.10	1.3	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	969.37	54	0.47	1.3	37.0	1,471,000	23,536,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI547		Single-family	1	2.15	42	0.39	1.0	0.1	2,000	32,000
		Multi-family	19	57.85	68	0.58	1.0	2.1	83,000	1,328,000
		Commercial	15	45.56	92	0.74	1.0	2.1	83,000	1,328,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	17	54.32	91	0.74	1.0	2.5	99,000	1,584,000
		Other Urban	2	5.36	80	0.66	1.0	0.2	9,000	144,000
		Open	47	145.60	0	0.10	1.0	0.9	36,000	576,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	310.84	44	0.41	1.0	7.8	312,000	4,992,000
BI571		Single-family	24	280.88	42	0.39	1.2	8.2	324,000	5,184,000
		Multi-family	23	272.29	68	0.58	1.2	11.7	468,000	7,488,000
		Commercial	8	100.27	92	0.74	1.2	5.5	220,000	3,520,000
		Public	6	68.40	80	0.66	1.2	3.4	134,000	2,144,000
		Light Industrial	2	20.16	91	0.74	1.2	1.1	44,000	704,000
		Other Urban	2	25.42	80	0.66	1.2	1.2	50,000	800,000
		Open	35	419.98	0	0.10	1.2	3.1	124,000	1,984,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	1,187.40	41	0.39	1.2	34.3	1,364,000	21,824,000
BI5710		Single-family	17	18.07	42	0.39	1.3	0.6	23,000	368,000
		Multi-family	58	62.65	68	0.58	1.3	2.9	117,000	1,872,000
		Commercial	25	27.62	92	0.74	1.3	1.6	66,000	1,056,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.00	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	108.34	70	0.59	1.3	5.1	206,000	3,296,000
BI572		Single-family	32	338.64	42	0.39	1.2	9.8	391,000	6,256,000
		Multi-family	56	598.95	68	0.58	1.2	25.8	1,029,000	16,464,000
		Commercial	6	61.89	92	0.74	1.2	3.4	136,000	2,176,000
		Public	4	45.39	80	0.66	1.2	2.2	89,000	1,424,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	1	8.94	80	0.66	1.2	0.4	17,000	272,000
		Open	1	14.28	0	0.10	1.2	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	1,068.09	61	0.53	1.2	41.9	1,666,000	26,656,000
BI573		Single-family	20	101.02	42	0.39	1.3	3.2	126,000	2,016,000
		Multi-family	43	220.00	68	0.58	1.3	10.3	409,000	6,544,000
		Commercial	9	45.57	92	0.74	1.3	2.7	108,000	1,728,000
		Public	3	13.00	80	0.66	1.3	0.7	28,000	448,000
		Light Industrial	14	70.37	91	0.74	1.3	4.2	167,000	2,672,000
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	11	57.46	0	0.10	1.3	0.5	18,000	288,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	507.42	61	0.53	1.3	21.5	856,000	13,696,000
BI574		Single-family	26	495.78	42	0.39	1.3	15.6	620,000	9,920,000
		Multi-family	44	831.42	68	0.58	1.3	38.9	1,547,000	24,752,000
		Commercial	15	294.89	92	0.74	1.3	17.6	700,000	11,200,000
		Public	1	13.41	80	0.66	1.3	0.7	28,000	448,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	14	274.06	0	0.10	1.3	2.2	88,000	1,408,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,909.56	55	0.49	1.3	75.0	2,983,000	47,728,000
BI575		Single-family	18	419.68	42	0.39	1.3	13.2	525,000	8,400,000
		Multi-family	54	1,282.02	68	0.58	1.3	59.9	2,386,000	38,176,000
		Commercial	24	575.67	92	0.74	1.3	34.3	1,367,000	21,872,000
		Public	1	25.67	80	0.66	1.3	1.4	54,000	864,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	2	57.46	0	0.10	1.3	0.5	18,000	288,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,360.50	68	0.57	1.3	109.3	4,350,000	69,600,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI576		Single-family	76	473.86	42	0.39	1.3	14.9	593,000	9,488,000
		Multi-family	13	80.16	68	0.58	1.3	3.7	149,000	2,384,000
		Commercial	7	44.75	92	0.74	1.3	2.7	106,000	1,696,000
		Public	4	26.87	80	0.66	1.3	1.4	57,000	912,000
		Light Industrial	0	1.97	91	0.74	1.3	0.1	5,000	80,000
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.00	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	627.61	51	0.45	1.3	22.9	910,000	14,560,000
BI577		Single-family	34	519.32	42	0.39	1.3	16.3	650,000	10,400,000
		Multi-family	13	196.74	68	0.58	1.3	9.2	366,000	5,856,000
		Commercial	11	166.67	92	0.74	1.3	9.9	396,000	6,336,000
		Public	2	26.54	80	0.66	1.3	1.4	56,000	896,000
		Light Industrial	1	18.17	91	0.74	1.3	1.1	43,000	688,000
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	40	608.72	0	0.10	1.3	4.9	195,000	3,120,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,536.16	35	0.35	1.3	42.9	1,706,000	27,296,000
BI578		Single-family	24	360.04	42	0.39	1.3	11.3	451,000	7,216,000
		Multi-family	18	263.84	68	0.58	1.3	12.3	491,000	7,856,000
		Commercial	8	120.10	92	0.74	1.3	7.2	285,000	4,560,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	5	78.69	91	0.74	1.3	4.7	187,000	2,992,000
		Other Urban	5	67.90	80	0.66	1.3	3.6	144,000	2,304,000
		Open	40	601.04	0	0.10	1.3	4.8	193,000	3,088,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,491.61	38	0.37	1.3	44.0	1,751,000	28,016,000
BI579		Single-family	70	874.60	42	0.39	1.3	27.5	1,095,000	17,520,000
		Multi-family	12	156.97	68	0.58	1.3	7.3	292,000	4,672,000
		Commercial	11	136.93	92	0.74	1.3	8.2	325,000	5,200,000
		Public	1	14.38	80	0.66	1.3	0.8	30,000	480,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	6	74.42	0	0.10	1.3	0.6	24,000	384,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,257.30	49	0.44	1.3	44.4	1,766,000	28,256,000
BI648A		Single-family	28	91.02	42	0.39	1.2	2.6	105,000	1,680,000
		Multi-family	62	198.48	68	0.58	1.2	8.6	341,000	5,456,000
		Commercial	8	24.53	92	0.74	1.2	1.4	54,000	864,000
		Public	0	0.70	80	0.66	1.2	0.0	1,000	16,000
		Light Industrial	2	7.34	91	0.74	1.2	0.4	16,000	256,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	322.07	63	0.54	1.2	13.0	517,000	8,272,000
BI648C		Single-family	50	58.63	42	0.39	1.2	1.7	68,000	1,088,000
		Multi-family	2	2.71	68	0.58	1.2	0.1	5,000	80,000
		Commercial	18	20.76	92	0.74	1.2	1.1	46,000	736,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	30	35.28	91	0.74	1.2	1.9	77,000	1,232,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	117.38	66	0.56	1.2	4.9	196,000	3,136,000
BI677		Single-family	33	180.11	42	0.39	1.0	4.4	173,000	2,768,000
		Multi-family	7	38.31	68	0.58	1.0	1.4	55,000	880,000
		Commercial	3	16.28	92	0.74	1.0	0.7	30,000	480,000
		Public	0	0.79	80	0.66	1.0	0.0	1,000	16,000
		Light Industrial	4	23.26	91	0.74	1.0	1.1	42,000	672,000
		Other Urban	17	95.99	80	0.66	1.0	3.9	156,000	2,496,000
		Open	35	195.21	0	0.10	1.0	1.2	48,000	768,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	549.95	39	0.37	1.0	12.7	505,000	8,080,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI7		Single-family	51	204.70	42	0.39	1.0	4.9	197,000	3,152,000
		Multi-family	5	21.29	68	0.58	1.0	0.8	30,000	480,000
		Commercial	23	94.17	92	0.74	1.0	4.3	172,000	2,752,000
		Public	6	23.69	80	0.66	1.0	1.0	39,000	624,000
		Light Industrial	9	36.47	91	0.74	1.0	1.7	67,000	1,072,000
		Other Urban	1	4.44	80	0.66	1.0	0.2	7,000	112,000
		Open	5	18.70	0	0.10	1.0	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	403.46	60	0.52	1.0	13.0	517,000	8,272,000
BI70		Single-family	79	1,137.87	42	0.39	1.2	33.0	1,314,000	21,024,000
		Multi-family	6	84.10	68	0.58	1.2	3.6	144,000	2,304,000
		Commercial	14	197.60	92	0.74	1.2	10.9	433,000	6,928,000
		Public	2	22.29	80	0.66	1.2	1.1	44,000	704,000
		Light Industrial	0	0.34	91	0.74	1.2	0.0	1,000	16,000
		Other Urban	0	2.50	80	0.66	1.2	0.1	5,000	80,000
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.13	65	0.56	1.2	0.0	0	0
		Catchment Total	100	1,444.83	51	0.45	1.2	48.8	1,941,000	31,056,000
BI71		Single-family	82	872.52	42	0.39	1.0	21.1	840,000	13,440,000
		Multi-family	7	68.88	68	0.58	1.0	2.5	99,000	1,584,000
		Commercial	5	53.42	92	0.74	1.0	2.5	98,000	1,568,000
		Public	3	27.34	80	0.66	1.0	1.1	45,000	720,000
		Light Industrial	3	26.86	91	0.74	1.0	1.2	49,000	784,000
		Other Urban	0	1.46	80	0.66	1.0	0.1	2,000	32,000
		Open	1	8.11	0	0.10	1.0	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	1,058.59	48	0.43	1.0	28.5	1,135,000	18,160,000
BI81		Single-family	91	711.92	42	0.39	1.0	17.2	685,000	10,960,000
		Multi-family	1	7.12	68	0.58	1.0	0.3	10,000	160,000
		Commercial	0	0.09	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	8	65.72	91	0.74	1.0	3.0	120,000	1,920,000
		Other Urban	0	0.10	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	784.95	46	0.42	1.0	20.5	815,000	13,040,000
BI84		Single-family	32	54.45	42	0.39	1.2	1.6	63,000	1,008,000
		Multi-family	20	34.82	68	0.58	1.2	1.5	60,000	960,000
		Commercial	5	8.98	92	0.74	1.2	0.5	20,000	320,000
		Public	13	21.61	80	0.66	1.2	1.1	42,000	672,000
		Light Industrial	12	20.63	91	0.74	1.2	1.1	45,000	720,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	18	30.22	0	0.10	1.2	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	170.71	53	0.47	1.2	6.0	239,000	3,824,000
BI86		Single-family	75	53.99	42	0.39	1.0	1.3	52,000	832,000
		Multi-family	4	2.95	68	0.58	1.0	0.1	4,000	64,000
		Commercial	4	3.00	92	0.74	1.0	0.1	5,000	80,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	17	12.13	0	0.10	1.0	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	72.07	38	0.36	1.0	1.6	64,000	1,024,000
BI9404		Single-family	81	53.36	42	0.39	1.2	1.5	62,000	992,000
		Multi-family	19	12.50	68	0.58	1.2	0.5	21,000	336,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.20	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	66.06	47	0.43	1.2	2.1	83,000	1,328,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	BLLNA1	Single-family	42	50.96	42	0.39	1.3	1.6	64,000	1,024,000
		Multi-family	51	61.82	68	0.58	1.3	2.9	115,000	1,840,000
		Commercial	7	8.39	92	0.74	1.3	0.5	20,000	320,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.00	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	121.17	59	0.51	1.3	5.0	199,000	3,184,000
	BLLNA10	Single-family	100	61.74	42	0.39	1.2	1.8	71,000	1,136,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	0	0.05	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	61.79	42	0.39	1.2	1.8	71,000	1,136,000
	BLLNA11	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	100	14.96	91	0.74	1.2	0.8	33,000	528,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	14.96	91	0.74	1.2	0.8	33,000	528,000
	BLLNA12	Single-family	20	2.77	42	0.39	1.2	0.1	3,000	48,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	77	10.80	92	0.74	1.2	0.6	24,000	384,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	4	0.50	91	0.74	1.2	0.0	1,000	16,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	14.07	82	0.67	1.2	0.7	28,000	448,000
	BLLNA13	Single-family	3	1.57	42	0.39	1.2	0.0	2,000	32,000
		Multi-family	3	1.42	68	0.58	1.2	0.1	2,000	32,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	94	48.18	80	0.66	1.2	2.4	94,000	1,504,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	51.17	79	0.65	1.2	2.5	98,000	1,568,000
	BLLNA14	Single-family	100	19.04	42	0.39	1.0	0.5	18,000	288,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	19.04	42	0.39	1.0	0.5	18,000	288,000
	BLLNA15	Single-family	91	122.03	42	0.39	1.0	3.0	117,000	1,872,000
		Multi-family	6	8.65	68	0.58	1.0	0.3	12,000	192,000
		Commercial	3	3.74	92	0.74	1.0	0.2	7,000	112,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	134.42	45	0.41	1.0	3.4	136,000	2,176,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BLLNA16		Single-family	50	14.87	42	0.39	1.0	0.4	14,000	224,000
		Multi-family	4	1.21	68	0.58	1.0	0.0	2,000	32,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	46	13.85	80	0.66	1.0	0.6	23,000	368,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	29.93	61	0.52	1.0	1.0	39,000	624,000
BLLNA17		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	100	18.58	0	0.10	1.0	0.1	5,000	80,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	18.58	0	0.10	1.0	0.1	5,000	80,000
BLLNA18		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	100	89.61	0	0.10	1.0	0.6	22,000	352,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	89.61	0	0.10	1.0	0.6	22,000	352,000
BLLNA19		Single-family	25	400.90	42	0.39	1.0	9.7	386,000	6,176,000
		Multi-family	2	28.92	68	0.58	1.0	1.0	41,000	656,000
		Commercial	2	39.53	92	0.74	1.0	1.8	72,000	1,152,000
		Public	6	98.85	80	0.66	1.0	4.0	161,000	2,576,000
		Light Industrial	3	54.75	91	0.74	1.0	2.5	100,000	1,600,000
		Other Urban	22	345.81	80	0.66	1.0	14.2	563,000	9,008,000
		Open	40	633.76	0	0.10	1.0	3.9	156,000	2,496,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	1,602.52	39	0.37	1.0	37.2	1,479,000	23,664,000
BLLNA2		Single-family	96	81.87	42	0.39	1.0	2.0	79,000	1,264,000
		Multi-family	1	0.64	68	0.58	1.0	0.0	1,000	16,000
		Commercial	3	2.39	92	0.74	1.0	0.1	4,000	64,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	84.90	44	0.40	1.0	2.1	84,000	1,344,000
BLLNA20		Single-family	6	2.15	42	0.39	1.0	0.1	2,000	32,000
		Multi-family	86	28.87	68	0.58	1.0	1.0	41,000	656,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	7	2.37	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	33.39	61	0.53	1.0	1.1	44,000	704,000
BLLNA3		Single-family	90	138.89	42	0.39	1.3	4.4	174,000	2,784,000
		Multi-family	10	15.29	68	0.58	1.3	0.7	28,000	448,000
		Commercial	0	0.00	92	0.74	1.3	0.0	0	0
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.00	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	154.18	45	0.41	1.3	5.1	202,000	3,232,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	BLLNA4	Single-family	41	54.72	42	0.39	1.2	1.6	63,000	1,008,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	15	19.82	92	0.74	1.2	1.1	43,000	688,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	21	28.59	91	0.74	1.2	1.6	63,000	1,008,000
		Other Urban	23	30.75	80	0.66	1.2	1.5	60,000	960,000
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	133.88	69	0.58	1.2	5.8	229,000	3,664,000
	BLLNA6	Single-family	49	52.70	42	0.39	1.2	1.5	61,000	976,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	12	13.08	92	0.74	1.2	0.7	29,000	464,000
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	35	37.46	91	0.74	1.2	2.1	82,000	1,312,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	4	4.61	0	0.10	1.2	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	107.85	63	0.54	1.2	4.3	173,000	2,768,000
	BLLNA7	Single-family	0	0.00	42	0.39	1.2	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	100	24.78	91	0.74	1.2	1.4	54,000	864,000
		Other Urban	0	0.01	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	24.79	91	0.74	1.2	1.4	54,000	864,000
	BLLNA8	Single-family	16	47.56	42	0.39	1.2	1.4	55,000	880,000
		Multi-family	0	0.36	68	0.58	1.2	0.0	1,000	16,000
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	11	33.65	91	0.74	1.2	1.9	74,000	1,184,000
		Other Urban	73	223.70	80	0.66	1.2	11.0	437,000	6,992,000
		Open	0	0.22	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	305.49	75	0.63	1.2	14.2	567,000	9,072,000
	BLLNA9	Single-family	25	19.66	42	0.39	1.2	0.6	23,000	368,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	75	58.16	91	0.74	1.2	3.2	127,000	2,032,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	77.82	79	0.65	1.2	3.8	150,000	2,400,000
	BLNA5	Single-family	51	93.89	42	0.39	1.2	2.7	108,000	1,728,000
		Multi-family	13	23.00	68	0.58	1.2	1.0	40,000	640,000
		Commercial	19	35.55	92	0.74	1.2	2.0	78,000	1,248,000
		Public	0	0.16	80	0.66	1.2	0.0	0	0
		Light Industrial	17	30.45	91	0.74	1.2	1.7	67,000	1,072,000
		Other Urban	0	0.25	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	183.30	63	0.54	1.2	7.4	293,000	4,688,000
	BLNNA12	Single-family	76	57.71	42	0.39	1.2	1.7	67,000	1,072,000
		Multi-family	0	0.00	68	0.58	1.2	0.0	0	0
		Commercial	0	0.00	92	0.74	1.2	0.0	0	0
		Public	0	0.00	80	0.66	1.2	0.0	0	0
		Light Industrial	24	18.46	91	0.74	1.2	1.0	40,000	640,000
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	76.17	54	0.47	1.2	2.7	107,000	1,712,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BNDCT1		Single-family	40	701.06	42	0.39	1.5	25.4	1,012,000	16,192,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	60	1,068.93	0	0.10	1.5	9.9	396,000	6,336,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,769.99	17	0.21	1.5	35.4	1,408,000	22,528,000
BNDCT2		Single-family	97	239.16	42	0.39	1.5	8.7	345,000	5,520,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	3	7.33	0	0.10	1.5	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	246.49	41	0.38	1.5	8.7	348,000	5,568,000
BNDCT3		Single-family	95	139.07	42	0.39	1.5	5.0	201,000	3,216,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	1	0.98	80	0.66	1.5	0.1	2,000	32,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	4	6.19	0	0.10	1.5	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	146.24	40	0.38	1.5	5.2	205,000	3,280,000
BNDCT4		Single-family	51	177.55	42	0.39	1.5	6.4	256,000	4,096,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	2	6.64	80	0.66	1.5	0.4	16,000	256,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	47	160.87	0	0.10	1.5	1.5	60,000	960,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	345.06	23	0.26	1.5	8.3	332,000	5,312,000
BNDCT5		Single-family	28	190.99	42	0.39	1.3	6.0	239,000	3,824,000
		Multi-family	21	148.68	68	0.58	1.3	7.0	277,000	4,432,000
		Commercial	15	105.44	92	0.74	1.3	6.3	250,000	4,000,000
		Public	6	42.96	80	0.66	1.3	2.3	91,000	1,456,000
		Light Industrial	6	38.37	91	0.74	1.3	2.3	91,000	1,456,000
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	24	166.18	0	0.10	1.3	1.3	53,000	848,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	692.62	50	0.45	1.3	25.2	1,001,000	16,016,000
BNDCT6		Single-family	52	342.63	42	0.39	1.2	9.9	396,000	6,336,000
		Multi-family	24	160.08	68	0.58	1.2	6.9	275,000	4,400,000
		Commercial	11	71.95	92	0.74	1.2	4.0	158,000	2,528,000
		Public	2	10.86	80	0.66	1.2	0.5	21,000	336,000
		Light Industrial	2	11.62	91	0.74	1.2	0.6	25,000	400,000
		Other Urban	3	17.87	80	0.66	1.2	0.9	35,000	560,000
		Open	7	49.56	0	0.10	1.2	0.4	15,000	240,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	664.57	53	0.47	1.2	23.2	925,000	14,800,000
CCAI4		Single-family	45	324.13	42	0.39	1.2	9.4	374,000	5,984,000
		Multi-family	39	283.06	68	0.58	1.2	12.2	486,000	7,776,000
		Commercial	12	83.92	92	0.74	1.2	4.6	184,000	2,944,000
		Public	4	25.19	80	0.66	1.2	1.2	49,000	784,000
		Light Industrial	0	0.00	91	0.74	1.2	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.2	0.0	0	0
		Open	0	0.40	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	716.70	59	0.52	1.2	27.5	1,093,000	17,488,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	CNTLA1	Single-family	36	137.30	42	0.39	1.0	3.3	132,000	2,112,000
		Multi-family	5	20.42	68	0.58	1.0	0.7	29,000	464,000
		Commercial	18	66.14	92	0.74	1.0	3.0	121,000	1,936,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	8	31.85	91	0.74	1.0	1.5	58,000	928,000
		Other Urban	11	39.93	80	0.66	1.0	1.6	65,000	1,040,000
		Open	22	81.85	0	0.10	1.0	0.5	20,000	320,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	377.49	51	0.46	1.0	10.7	425,000	6,800,000
	CNTLA2	Single-family	63	200.60	42	0.39	1.0	4.9	193,000	3,088,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	1	2.40	92	0.74	1.0	0.1	4,000	64,000
		Public	1	2.22	80	0.66	1.0	0.1	4,000	64,000
		Light Industrial	26	84.02	91	0.74	1.0	3.9	153,000	2,448,000
		Other Urban	9	29.53	80	0.66	1.0	1.2	48,000	768,000
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	318.77	59	0.51	1.0	10.1	402,000	6,432,000
	COLDW1	Single-family	77	531.90	42	0.39	1.5	19.3	768,000	12,288,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	23	162.49	0	0.10	1.5	1.5	60,000	960,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	694.39	32	0.32	1.5	20.8	828,000	13,248,000
	COLDW2	Single-family	97	402.31	42	0.39	1.5	14.6	581,000	9,296,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	3	10.45	92	0.74	1.5	0.7	29,000	464,000
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	1	2.47	0	0.10	1.5	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	415.23	43	0.40	1.5	15.3	611,000	9,776,000
	CULVER1	Single-family	48	189.81	42	0.39	1.2	5.5	219,000	3,504,000
		Multi-family	12	49.04	68	0.58	1.2	2.1	84,000	1,344,000
		Commercial	2	6.17	92	0.74	1.2	0.3	14,000	224,000
		Public	6	23.64	80	0.66	1.2	1.2	46,000	736,000
		Light Industrial	29	116.54	91	0.74	1.2	6.4	255,000	4,080,000
		Other Urban	3	10.37	80	0.66	1.2	0.5	20,000	320,000
		Open	0	0.00	0	0.10	1.2	0.0	0	0
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	395.57	64	0.55	1.2	16.0	638,000	10,208,000
	DDI11	Single-family	20	62.97	42	0.39	1.3	2.0	79,000	1,264,000
		Multi-family	51	156.55	68	0.58	1.3	7.3	291,000	4,656,000
		Commercial	29	87.81	92	0.74	1.3	5.2	209,000	3,344,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.00	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	307.33	70	0.59	1.3	14.5	579,000	9,264,000
	DDI111	Single-family	73	1,655.43	42	0.39	1.3	52.0	2,072,000	33,152,000
		Multi-family	12	261.96	68	0.58	1.3	12.2	488,000	7,808,000
		Commercial	8	169.90	92	0.74	1.3	10.1	403,000	6,448,000
		Public	1	23.25	80	0.66	1.3	1.2	49,000	784,000
		Light Industrial	2	53.73	91	0.74	1.3	3.2	128,000	2,048,000
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	4	88.16	0	0.10	1.3	0.7	28,000	448,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,252.43	49	0.44	1.3	79.6	3,168,000	50,688,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
DDI113		Single-family	51	435.50	42	0.39	1.3	13.7	545,000	8,720,000
		Multi-family	42	360.66	68	0.58	1.3	16.9	671,000	10,736,000
		Commercial	3	25.00	92	0.74	1.3	1.5	59,000	944,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	4	36.59	0	0.10	1.3	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	857.75	53	0.47	1.3	32.3	1,287,000	20,592,000
DDI114		Single-family	51	1,370.40	42	0.39	1.3	43.1	1,715,000	27,440,000
		Multi-family	32	863.94	68	0.58	1.3	40.4	1,608,000	25,728,000
		Commercial	12	322.88	92	0.74	1.3	19.3	767,000	12,272,000
		Public	1	33.62	80	0.66	1.3	1.8	71,000	1,136,000
		Light Industrial	2	52.87	91	0.74	1.3	3.2	126,000	2,016,000
		Other Urban	1	16.56	80	0.66	1.3	0.9	35,000	560,000
		Open	1	28.68	0	0.10	1.3	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	2,688.95	58	0.50	1.3	108.8	4,331,000	69,296,000
DDI3		Single-family	56	759.09	42	0.39	1.3	23.9	950,000	15,200,000
		Multi-family	29	399.15	68	0.58	1.3	18.7	743,000	11,888,000
		Commercial	4	60.66	92	0.74	1.3	3.6	144,000	2,304,000
		Public	0	0.00	80	0.66	1.3	0.0	0	0
		Light Industrial	7	99.46	91	0.74	1.3	5.9	236,000	3,776,000
		Other Urban	3	37.43	80	0.66	1.3	2.0	79,000	1,264,000
		Open	0	1.75	0	0.10	1.3	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	1,357.54	56	0.49	1.3	54.1	2,153,000	34,448,000
FRANK1		Single-family	9	73.97	42	0.39	1.5	2.7	107,000	1,712,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	88	698.72	0	0.10	1.5	6.5	259,000	4,144,000
		Unknown	3	20.99	65	0.56	1.5	1.1	44,000	704,000
		Catchment Total	100	793.68	6	0.14	1.5	10.3	410,000	6,560,000
GRCNL1		Single-family	31	101.34	42	0.39	1.0	2.5	98,000	1,568,000
		Multi-family	40	130.31	68	0.58	1.0	4.7	187,000	2,992,000
		Commercial	8	27.38	92	0.74	1.0	1.3	50,000	800,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	20	64.34	0	0.10	1.0	0.4	16,000	256,000
		Unknown	0	0.60	65	0.56	1.0	0.0	1,000	16,000
		Catchment Total	100	323.97	48	0.44	1.0	8.8	352,000	5,632,000
LA1177		Single-family	50	1,306.66	42	0.39	1.2	37.9	1,509,000	24,144,000
		Multi-family	16	405.01	68	0.58	1.2	17.5	696,000	11,136,000
		Commercial	8	207.84	92	0.74	1.2	11.4	456,000	7,296,000
		Public	2	61.75	80	0.66	1.2	3.0	121,000	1,936,000
		Light Industrial	2	54.47	91	0.74	1.2	3.0	119,000	1,904,000
		Other Urban	6	146.77	80	0.66	1.2	7.2	287,000	4,592,000
		Open	16	421.82	0	0.10	1.2	3.1	125,000	2,000,000
		Unknown	0	0.18	65	0.56	1.2	0.0	0	0
		Catchment Total	100	2,604.50	47	0.43	1.2	83.2	3,313,000	53,008,000
MDREY1		Single-family	3	20.12	42	0.39	1.0	0.5	19,000	304,000
		Multi-family	11	86.10	68	0.58	1.0	3.1	123,000	1,968,000
		Commercial	7	51.38	92	0.74	1.0	2.4	94,000	1,504,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	49	383.93	80	0.66	1.0	15.7	625,000	10,000,000
		Open	11	85.96	0	0.10	1.0	0.5	21,000	336,000
		Unknown	20	154.13	65	0.56	1.0	5.4	213,000	3,408,000
		Catchment Total	100	781.62	67	0.57	1.0	27.5	1,095,000	17,520,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
MORAG1		Single-family	25	233.10	42	0.39	1.5	8.5	337,000	5,392,000
		Multi-family	1	7.01	68	0.58	1.5	0.4	15,000	240,000
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	74	677.61	0	0.10	1.5	6.3	251,000	4,016,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	917.72	11	0.18	1.5	15.1	603,000	9,648,000
MT318		Single-family	38	552.70	42	0.39	1.0	13.4	532,000	8,512,000
		Multi-family	23	329.31	68	0.58	1.0	11.8	471,000	7,536,000
		Commercial	7	94.27	92	0.74	1.0	4.3	172,000	2,752,000
		Public	2	30.65	80	0.66	1.0	1.3	50,000	800,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	27	386.98	80	0.66	1.0	15.8	630,000	10,080,000
		Open	3	44.03	0	0.10	1.0	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	1,437.94	61	0.53	1.0	46.9	1,866,000	29,856,000
MT430		Single-family	2	3.19	42	0.39	1.0	0.1	3,000	48,000
		Multi-family	82	135.80	68	0.58	1.0	4.9	194,000	3,104,000
		Commercial	1	1.50	92	0.74	1.0	0.1	3,000	48,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.02	80	0.66	1.0	0.0	0	0
		Open	15	24.66	0	0.10	1.0	0.2	6,000	96,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	165.17	58	0.51	1.0	5.2	206,000	3,296,000
PANPC1		Single-family	42	1,999.17	42	0.39	1.3	62.8	2,502,000	40,032,000
		Multi-family	19	914.74	68	0.58	1.3	42.8	1,702,000	27,232,000
		Commercial	6	276.15	92	0.74	1.3	16.5	656,000	10,496,000
		Public	1	41.52	80	0.66	1.3	2.2	88,000	1,408,000
		Light Industrial	4	185.70	91	0.74	1.3	11.1	441,000	7,056,000
		Other Urban	0	23.09	80	0.66	1.3	1.2	49,000	784,000
		Open	27	1,266.32	0	0.10	1.3	10.2	406,000	6,496,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	4,706.69	41	0.39	1.3	146.8	5,844,000	93,504,000
RXFRD1		Single-family	59	458.36	42	0.39	1.3	14.4	574,000	9,184,000
		Multi-family	10	77.82	68	0.58	1.3	3.6	145,000	2,320,000
		Commercial	24	185.27	92	0.74	1.3	11.1	440,000	7,040,000
		Public	2	15.66	80	0.66	1.3	0.8	33,000	528,000
		Light Industrial	5	36.07	91	0.74	1.3	2.2	86,000	1,376,000
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.00	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	773.18	60	0.51	1.3	32.1	1,278,000	20,448,000
SAWTL1		Single-family	37	1,029.46	42	0.39	1.2	29.9	1,189,000	19,024,000
		Multi-family	26	734.00	68	0.58	1.2	31.7	1,261,000	20,176,000
		Commercial	7	204.91	92	0.74	1.2	11.3	449,000	7,184,000
		Public	14	397.92	80	0.66	1.2	19.5	778,000	12,448,000
		Light Industrial	2	58.06	91	0.74	1.2	3.2	127,000	2,032,000
		Other Urban	3	79.63	80	0.66	1.2	3.9	156,000	2,496,000
		Open	11	315.74	0	0.10	1.2	2.3	94,000	1,504,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	2,819.72	55	0.49	1.2	101.8	4,054,000	64,864,000
SEPUL1		Single-family	8	170.86	42	0.39	1.5	6.2	247,000	3,952,000
		Multi-family	0	4.36	68	0.58	1.5	0.2	9,000	144,000
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	0	0.00	80	0.66	1.5	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	11	248.55	80	0.66	1.5	15.3	607,000	9,712,000
		Open	81	1,792.44	0	0.10	1.5	16.7	664,000	10,624,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	2,216.21	12	0.19	1.5	38.4	1,527,000	24,432,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SEPUL2		Single-family	59	454.24	42	0.39	1.3	14.3	568,000	9,088,000
		Multi-family	0	0.06	68	0.58	1.3	0.0	0	0
		Commercial	1	10.88	92	0.74	1.3	0.6	26,000	416,000
		Public	17	132.66	80	0.66	1.3	7.1	281,000	4,496,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	3	22.14	80	0.66	1.3	1.2	47,000	752,000
		Open	19	143.69	0	0.10	1.3	1.2	46,000	736,000
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	763.67	43	0.40	1.3	24.3	968,000	15,488,000
SEPUL3		Single-family	38	411.42	42	0.39	1.2	11.9	475,000	7,600,000
		Multi-family	23	250.41	68	0.58	1.2	10.8	430,000	6,880,000
		Commercial	13	139.80	92	0.74	1.2	7.7	306,000	4,896,000
		Public	12	126.52	80	0.66	1.2	6.2	247,000	3,952,000
		Light Industrial	8	80.81	91	0.74	1.2	4.4	177,000	2,832,000
		Other Urban	5	55.98	80	0.66	1.2	2.7	109,000	1,744,000
		Open	1	10.65	0	0.10	1.2	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.2	0.0	0	0
		Catchment Total	100	1,075.59	64	0.55	1.2	43.9	1,747,000	27,952,000
SEPUL5		Single-family	73	443.25	42	0.39	1.0	10.7	427,000	6,832,000
		Multi-family	20	124.87	68	0.58	1.0	4.5	179,000	2,864,000
		Commercial	4	21.85	92	0.74	1.0	1.0	40,000	640,000
		Public	2	12.56	80	0.66	1.0	0.5	20,000	320,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	1	8.15	80	0.66	1.0	0.3	13,000	208,000
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.01	65	0.56	1.0	0.0	0	0
		Catchment Total	100	610.69	50	0.45	1.0	17.1	679,000	10,864,000
STONE1		Single-family	22	327.28	42	0.39	1.5	11.9	473,000	7,568,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	0	0.00	92	0.74	1.5	0.0	0	0
		Public	5	74.68	80	0.66	1.5	4.6	182,000	2,912,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	73	1,066.99	0	0.10	1.5	9.9	395,000	6,320,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	1,468.95	13	0.19	1.5	26.4	1,050,000	16,800,000
STONE2		Single-family	59	161.86	42	0.39	1.5	5.9	234,000	3,744,000
		Multi-family	0	0.00	68	0.58	1.5	0.0	0	0
		Commercial	3	6.98	92	0.74	1.5	0.5	19,000	304,000
		Public	18	49.20	80	0.66	1.5	3.0	120,000	1,920,000
		Light Industrial	0	0.00	91	0.74	1.5	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.5	0.0	0	0
		Open	21	57.60	0	0.10	1.5	0.5	21,000	336,000
		Unknown	0	0.00	65	0.56	1.5	0.0	0	0
		Catchment Total	100	275.64	41	0.39	1.5	9.9	394,000	6,304,000
STONE3		Single-family	0	0.00	42	0.39	1.3	0.0	0	0
		Multi-family	22	57.42	68	0.58	1.3	2.7	107,000	1,712,000
		Commercial	5	12.89	92	0.74	1.3	0.8	31,000	496,000
		Public	74	195.23	80	0.66	1.3	10.4	413,000	6,608,000
		Light Industrial	0	0.00	91	0.74	1.3	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.3	0.0	0	0
		Open	0	0.03	0	0.10	1.3	0.0	0	0
		Unknown	0	0.00	65	0.56	1.3	0.0	0	0
		Catchment Total	100	265.57	78	0.65	1.3	13.8	551,000	8,816,000
WATER		Single-family	39	16.17	42	0.39	1.0	0.4	16,000	256,000
		Multi-family	1	0.51	68	0.58	1.0	0.0	1,000	16,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.03	80	0.66	1.0	0.0	0	0
		Light Industrial	59	24.29	91	0.74	1.0	1.1	44,000	704,000
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	41.00	71	0.60	1.0	1.5	61,000	976,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
22	BI513A	Single-family	61	126.72	42	0.39	1.0	3.1	122,000	1,952,000
		Multi-family	18	38.50	68	0.58	1.0	1.4	55,000	880,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	2	3.99	80	0.66	1.0	0.2	7,000	112,000
		Open	19	39.35	0	0.10	1.0	0.2	10,000	160,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	208.56	40	0.38	1.0	4.9	194,000	3,104,000
	BI513C	Single-family	30	599.96	42	0.39	1.0	14.5	578,000	9,248,000
		Multi-family	0	9.73	68	0.58	1.0	0.3	14,000	224,000
		Commercial	2	34.75	92	0.74	1.0	1.6	63,000	1,008,000
		Public	3	52.57	80	0.66	1.0	2.2	86,000	1,376,000
		Light Industrial	1	25.58	91	0.74	1.0	1.2	47,000	752,000
		Other Urban	62	1,259.96	80	0.66	1.0	51.6	2,053,000	32,848,000
		Open	2	43.84	0	0.10	1.0	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	2,026.39	67	0.57	1.0	71.6	2,852,000	45,632,000
	BI5241	Single-family	34	802.31	42	0.39	1.0	19.4	772,000	12,352,000
		Multi-family	4	84.74	68	0.58	1.0	3.0	121,000	1,936,000
		Commercial	4	100.90	92	0.74	1.0	4.6	184,000	2,944,000
		Public	5	126.16	80	0.66	1.0	5.2	206,000	3,296,000
		Light Industrial	0	0.59	91	0.74	1.0	0.0	1,000	16,000
		Other Urban	36	861.66	80	0.66	1.0	35.3	1,404,000	22,464,000
		Open	17	416.14	0	0.10	1.0	2.6	103,000	1,648,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	2,392.50	53	0.47	1.0	70.1	2,791,000	44,656,000
	SMB144	Single-family	91	32.23	42	0.39	1.0	0.8	31,000	496,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	9	3.33	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	35.56	38	0.36	1.0	0.8	32,000	512,000
	SMB145	Single-family	44	10.26	42	0.39	1.0	0.2	10,000	160,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	56	12.91	0	0.10	1.0	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	23.17	19	0.23	1.0	0.3	13,000	208,000
	SMB146	Single-family	19	10.63	42	0.39	1.0	0.3	10,000	160,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	81	44.86	0	0.10	1.0	0.3	11,000	176,000
		Unknown	0	0.05	65	0.56	1.0	0.0	0	0
		Catchment Total	100	55.54	8	0.16	1.0	0.5	21,000	336,000
	SMB147	Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	3	0.89	80	0.66	1.0	0.0	1,000	16,000
		Open	97	25.29	0	0.10	1.0	0.2	6,000	96,000
		Unknown	0	0.01	65	0.56	1.0	0.0	0	0
		Catchment Total	100	26.19	3	0.12	1.0	0.2	7,000	112,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB148		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	2	1.38	80	0.66	1.0	0.1	2,000	32,000
		Open	97	59.06	0	0.10	1.0	0.4	15,000	240,000
		Unknown	0	0.17	65	0.56	1.0	0.0	0	0
		Catchment Total	100	60.61	2	0.11	1.0	0.4	17,000	272,000
SMB149		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	3	1.10	80	0.66	1.0	0.0	2,000	32,000
		Open	97	40.13	0	0.10	1.0	0.2	10,000	160,000
		Unknown	1	0.34	65	0.56	1.0	0.0	0	0
		Catchment Total	100	41.57	3	0.12	1.0	0.3	12,000	192,000
SMB150		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	2	0.95	80	0.66	1.0	0.0	2,000	32,000
		Open	98	55.08	0	0.10	1.0	0.3	14,000	224,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	56.03	1	0.11	1.0	0.4	16,000	256,000
SMB151		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.02	80	0.66	1.0	0.0	0	0
		Open	100	31.07	0	0.10	1.0	0.2	8,000	128,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	31.09	0	0.10	1.0	0.2	8,000	128,000
SMB152		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	2	1.25	80	0.66	1.0	0.1	2,000	32,000
		Open	98	62.78	0	0.10	1.0	0.4	15,000	240,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	64.03	2	0.11	1.0	0.4	17,000	272,000
SMB153		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	11	1.67	80	0.66	1.0	0.1	3,000	48,000
		Open	89	13.04	0	0.10	1.0	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	14.71	9	0.16	1.0	0.1	6,000	96,000
23	B13402	Single-family	34	149.10	42	0.39	1.0	3.6	144,000	2,304,000
		Multi-family	5	21.54	68	0.58	1.0	0.8	31,000	496,000
		Commercial	8	35.56	92	0.74	1.0	1.6	65,000	1,040,000
		Public	2	9.52	80	0.66	1.0	0.4	16,000	256,000
		Light Industrial	26	113.38	91	0.74	1.0	5.2	207,000	3,312,000
		Other Urban	6	26.25	80	0.66	1.0	1.1	43,000	688,000
		Open	20	87.39	0	0.10	1.0	0.5	22,000	352,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	442.74	55	0.48	1.0	13.2	528,000	8,448,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB154	Single-family	1	2.65	42	0.39	1.0	0.1	3,000	48,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	92	201.38	80	0.66	1.0	8.2	328,000	5,248,000
		Open	7	15.57	0	0.10	1.0	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	219.60	74	0.62	1.0	8.4	335,000	5,360,000
	SMB158	Single-family	3	30.69	42	0.39	1.0	0.7	30,000	480,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	97	950.46	80	0.66	1.0	38.9	1,548,000	24,768,000
		Open	0	0.38	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	981.53	79	0.65	1.0	39.6	1,578,000	25,248,000
24	BI286	Single-family	80	1,346.81	42	0.39	1.0	32.6	1,297,000	20,752,000
		Multi-family	2	32.84	68	0.58	1.0	1.2	47,000	752,000
		Commercial	5	89.97	92	0.74	1.0	4.1	164,000	2,624,000
		Public	8	137.43	80	0.66	1.0	5.6	224,000	3,584,000
		Light Industrial	0	0.40	91	0.74	1.0	0.0	1,000	16,000
		Other Urban	1	10.34	80	0.66	1.0	0.4	17,000	272,000
		Open	4	62.24	0	0.10	1.0	0.4	15,000	240,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	1,680.03	47	0.43	1.0	44.3	1,765,000	28,240,000
	BI4050	Single-family	85	28.68	42	0.39	1.0	0.7	28,000	448,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	14	4.59	80	0.66	1.0	0.2	7,000	112,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	2	0.51	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	33.78	47	0.42	1.0	0.9	35,000	560,000
	BI440	Single-family	71	253.77	42	0.39	1.0	6.1	244,000	3,904,000
		Multi-family	13	47.55	68	0.58	1.0	1.7	68,000	1,088,000
		Commercial	9	31.28	92	0.74	1.0	1.4	57,000	912,000
		Public	6	22.47	80	0.66	1.0	0.9	37,000	592,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	355.07	52	0.46	1.0	10.2	406,000	6,496,000
	BI5452B	Single-family	74	15.90	42	0.39	1.0	0.4	15,000	240,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	23	4.90	92	0.74	1.0	0.2	9,000	144,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	3	0.56	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	21.36	52	0.46	1.0	0.6	24,000	384,000
	BI5452E	Single-family	94	17.39	42	0.39	1.0	0.4	17,000	272,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	6	1.07	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	18.46	40	0.37	1.0	0.4	17,000	272,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI5452G		Single-family	94	17.24	42	0.39	1.0	0.4	17,000	272,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.06	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	5	0.95	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	18.25	40	0.38	1.0	0.4	17,000	272,000
BI5452I		Single-family	96	8.32	42	0.39	1.0	0.2	8,000	128,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	4	0.32	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	8.64	40	0.38	1.0	0.2	8,000	128,000
BI9815		Single-family	93	210.57	42	0.39	1.0	5.1	203,000	3,248,000
		Multi-family	4	8.31	68	0.58	1.0	0.3	12,000	192,000
		Commercial	2	4.95	92	0.74	1.0	0.2	9,000	144,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	1	1.45	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	225.28	44	0.40	1.0	5.6	224,000	3,584,000
SMB161		Single-family	92	10.23	42	0.39	1.0	0.2	10,000	160,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	4	0.48	80	0.66	1.0	0.0	1,000	16,000
		Open	4	0.45	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	11.16	42	0.39	1.0	0.3	11,000	176,000
SMB162		Single-family	96	17.75	42	0.39	1.0	0.4	17,000	272,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	4	0.70	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	18.45	40	0.38	1.0	0.4	17,000	272,000
SMB163		Single-family	98	15.08	42	0.39	1.0	0.4	15,000	240,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	2	0.31	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	15.39	41	0.38	1.0	0.4	15,000	240,000
SMB164		Single-family	95	21.17	42	0.39	1.0	0.5	20,000	320,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	5	1.08	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	22.25	40	0.38	1.0	0.5	20,000	320,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB165		Single-family	95	24.89	42	0.39	1.0	0.6	24,000	384,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	5	1.27	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	26.16	40	0.38	1.0	0.6	24,000	384,000
SMB166		Single-family	93	14.29	42	0.39	1.0	0.3	14,000	224,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	4	0.58	80	0.66	1.0	0.0	1,000	16,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	3	0.42	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	15.29	42	0.39	1.0	0.4	15,000	240,000
SMB167		Single-family	96	15.21	42	0.39	1.0	0.4	15,000	240,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	4	0.69	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	15.90	40	0.38	1.0	0.4	15,000	240,000
SMB168		Single-family	71	61.32	42	0.39	1.0	1.5	59,000	944,000
		Multi-family	9	7.55	68	0.58	1.0	0.3	11,000	176,000
		Commercial	18	15.78	92	0.74	1.0	0.7	29,000	464,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	2	1.33	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	85.98	53	0.47	1.0	2.5	99,000	1,584,000
SMB169		Single-family	94	22.59	42	0.39	1.0	0.5	22,000	352,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	6	1.33	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	23.92	40	0.37	1.0	0.6	22,000	352,000
SMB170		Single-family	97	4.64	42	0.39	1.0	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	3	0.16	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	4.80	41	0.38	1.0	0.1	4,000	64,000
SMB171		Single-family	93	17.62	42	0.39	1.0	0.4	17,000	272,000
		Multi-family	7	1.37	68	0.58	1.0	0.0	2,000	32,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.05	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	19.04	44	0.40	1.0	0.5	19,000	304,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB172	Single-family	35	27.51	42	0.39	1.0	0.7	26,000	416,000
		Multi-family	45	35.44	68	0.58	1.0	1.3	51,000	816,000
		Commercial	18	14.50	92	0.74	1.0	0.7	26,000	416,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	2	1.18	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	78.63	62	0.54	1.0	2.6	103,000	1,648,000
	SMB173	Single-family	44	12.64	42	0.39	1.0	0.3	12,000	192,000
		Multi-family	56	16.20	68	0.58	1.0	0.6	23,000	368,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.03	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	28.87	57	0.50	1.0	0.9	35,000	560,000
25	BI1105	Single-family	67	1,884.01	42	0.39	1.0	45.6	1,814,000	29,024,000
		Multi-family	10	268.67	68	0.58	1.0	9.7	385,000	6,160,000
		Commercial	6	167.62	92	0.74	1.0	7.7	306,000	4,896,000
		Public	10	265.28	80	0.66	1.0	10.9	432,000	6,912,000
		Light Industrial	1	14.00	91	0.74	1.0	0.6	26,000	416,000
		Other Urban	5	131.09	80	0.66	1.0	5.4	214,000	3,424,000
		Open	2	61.27	0	0.10	1.0	0.4	15,000	240,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	2,791.94	52	0.46	1.0	80.1	3,192,000	51,072,000
	BI569F	Single-family	95	118.85	42	0.39	1.0	2.9	114,000	1,824,000
		Multi-family	5	6.59	68	0.58	1.0	0.2	9,000	144,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.01	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	125.45	43	0.40	1.0	3.1	123,000	1,968,000
	BI6550	Single-family	54	236.57	42	0.39	1.0	5.7	228,000	3,648,000
		Multi-family	21	91.70	68	0.58	1.0	3.3	131,000	2,096,000
		Commercial	2	9.83	92	0.74	1.0	0.5	18,000	288,000
		Public	22	97.53	80	0.66	1.0	4.0	159,000	2,544,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	1	4.35	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	439.98	57	0.49	1.0	13.5	537,000	8,592,000
	SMB174	Single-family	0	0.02	42	0.39	1.0	0.0	0	0
		Multi-family	2	1.74	68	0.58	1.0	0.1	2,000	32,000
		Commercial	23	17.15	92	0.74	1.0	0.8	31,000	496,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	75	56.09	80	0.66	1.0	2.3	91,000	1,456,000
		Open	0	0.06	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	75.06	82	0.68	1.0	3.1	124,000	1,984,000
	SMB175	Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	66	27.74	68	0.58	1.0	1.0	40,000	640,000
		Commercial	0	0.01	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	19	8.05	80	0.66	1.0	0.3	13,000	208,000
		Open	15	6.35	0	0.10	1.0	0.0	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	42.15	60	0.52	1.0	1.4	55,000	880,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT	LAND	PERCENT	RUNOFF	RAINFALL	AVERAGE	AVERAGE	AVG. ANN.
			OF	USE	IMPERV	COEFF	CORRECTION	STORM	STORM	STORM
			TOTAL	ACRES		Rv	FACTOR	RUNOFF	VOLUME	VOLUME
								(CFS)	(CU FT)	(CU FT)
	SMB176	Single-family	78	662.58	42	0.39	1.0	16.0	638,000	10,208,000
		Multi-family	11	94.80	68	0.58	1.0	3.4	136,000	2,176,000
		Commercial	3	21.61	92	0.74	1.0	1.0	39,000	624,000
		Public	3	24.89	80	0.66	1.0	1.0	41,000	656,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.92	80	0.66	1.0	0.0	1,000	16,000
		Open	6	47.33	0	0.10	1.0	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
Catchment Total		100	852.13	45	0.41	1.0	21.8	867,000	13,872,000	
26	BI558A	Single-family	71	792.98	42	0.39	1.0	19.2	763,000	12,208,000
		Multi-family	4	40.57	68	0.58	1.0	1.5	58,000	928,000
		Commercial	0	0.79	92	0.74	1.0	0.0	1,000	16,000
		Public	3	37.12	80	0.66	1.0	1.5	60,000	960,000
		Light Industrial	1	15.99	91	0.74	1.0	0.7	29,000	464,000
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	20	227.32	0	0.10	1.0	1.4	56,000	896,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
Catchment Total		100	1,114.77	36	0.35	1.0	24.3	967,000	15,472,000	
	BI558C	Single-family	81	531.21	42	0.39	1.0	12.8	511,000	8,176,000
		Multi-family	12	81.13	68	0.58	1.0	2.9	116,000	1,856,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	5	35.63	80	0.66	1.0	1.5	58,000	928,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	1	9.31	0	0.10	1.0	0.1	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
Catchment Total		100	657.28	47	0.42	1.0	17.3	687,000	10,992,000	
	BI569E	Single-family	83	285.90	42	0.39	1.0	6.9	275,000	4,400,000
		Multi-family	6	19.62	68	0.58	1.0	0.7	28,000	448,000
		Commercial	11	37.73	92	0.74	1.0	1.7	69,000	1,104,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
Catchment Total		100	343.25	49	0.44	1.0	9.3	372,000	5,952,000	
	BI6001	Single-family	62	751.90	42	0.39	1.0	18.2	724,000	11,584,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.08	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	38	454.25	0	0.10	1.0	2.8	112,000	1,792,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
Catchment Total		100	1,206.23	26	0.28	1.0	21.0	836,000	13,376,000	
	BI6050	Single-family	66	101.13	42	0.39	1.0	2.4	97,000	1,552,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	6	9.10	80	0.66	1.0	0.4	15,000	240,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	28	42.92	0	0.10	1.0	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
Catchment Total		100	153.15	32	0.32	1.0	3.1	123,000	1,968,000	
	BI724	Single-family	75	276.84	42	0.39	1.0	6.7	267,000	4,272,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	25	91.93	0	0.10	1.0	0.6	23,000	368,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
Catchment Total		100	368.77	32	0.32	1.0	7.3	290,000	4,640,000	

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
BI9817		Single-family	91	193.69	42	0.39	1.0	4.7	186,000	2,976,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	8	16.21	80	0.66	1.0	0.7	26,000	416,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	1	3.10	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	213.00	44	0.41	1.0	5.4	213,000	3,408,000
MT12911		Single-family	100	19.52	42	0.39	1.0	0.5	19,000	304,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	19.52	42	0.39	1.0	0.5	19,000	304,000
MT12912		Single-family	97	14.82	42	0.39	1.0	0.4	14,000	224,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	3	0.52	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	15.34	41	0.38	1.0	0.4	14,000	224,000
MT1292		Single-family	100	29.37	42	0.39	1.0	0.7	28,000	448,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.02	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	29.39	42	0.39	1.0	0.7	28,000	448,000
MT54		Single-family	89	60.35	42	0.39	1.0	1.5	58,000	928,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.03	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	11	7.29	0	0.10	1.0	0.0	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	67.67	37	0.36	1.0	1.5	60,000	960,000
SMB183		Single-family	39	26.36	42	0.39	1.0	0.6	25,000	400,000
		Multi-family	26	17.37	68	0.58	1.0	0.6	25,000	400,000
		Commercial	34	22.75	92	0.74	1.0	1.0	42,000	672,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	1	0.58	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	67.06	65	0.56	1.0	2.3	92,000	1,472,000
SMB185		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	90	45.49	68	0.58	1.0	1.6	65,000	1,040,000
		Commercial	2	0.95	92	0.74	1.0	0.0	2,000	32,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	8	3.89	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	50.33	63	0.55	1.0	1.7	68,000	1,088,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
SMB187		Single-family	82	132.14	42	0.39	1.0	3.2	127,000	2,032,000
		Multi-family	9	14.87	68	0.58	1.0	0.5	21,000	336,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	6	9.43	80	0.66	1.0	0.4	15,000	240,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	3	5.26	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	161.70	45	0.41	1.0	4.1	164,000	2,624,000
SMB191		Single-family	100	31.76	42	0.39	1.0	0.8	31,000	496,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	31.76	42	0.39	1.0	0.8	31,000	496,000
SMB192		Single-family	99	71.44	42	0.39	1.0	1.7	69,000	1,104,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	1	0.91	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	72.35	41	0.39	1.0	1.7	69,000	1,104,000
SMB193		Single-family	62	57.57	42	0.39	1.0	1.4	55,000	880,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	38	35.24	0	0.10	1.0	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	92.81	26	0.28	1.0	1.6	64,000	1,024,000
SMB194		Single-family	46	23.23	42	0.39	1.0	0.6	22,000	352,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	54	27.35	0	0.10	1.0	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	50.58	19	0.23	1.0	0.7	29,000	464,000
SMB195		Single-family	69	40.85	42	0.39	1.0	1.0	39,000	624,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	31	18.12	0	0.10	1.0	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	58.97	29	0.30	1.0	1.1	43,000	688,000
SMB201		Single-family	54	32.33	42	0.39	1.0	0.8	31,000	496,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	39	23.74	80	0.66	1.0	1.0	39,000	624,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	7	4.31	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	60.38	54	0.48	1.0	1.8	71,000	1,136,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB202	Single-family	100	20.18	42	0.39	1.0	0.5	19,000	304,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	0	0.00	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	20.18	42	0.39	1.0	0.5	19,000	304,000
	SMB203	Single-family	82	59.66	42	0.39	1.0	1.4	57,000	912,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	17	12.47	80	0.66	1.0	0.5	20,000	320,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	1	0.50	0	0.10	1.0	0.0	0	0
		Unknown	0	0.16	65	0.56	1.0	0.0	0	0
		Catchment Total	100	72.79	48	0.43	1.0	2.0	77,000	1,232,000
27	ALTMR1	Single-family	44	419.73	42	0.39	1.0	10.1	404,000	6,464,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	2	22.86	80	0.66	1.0	0.9	37,000	592,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	53	506.07	0	0.10	1.0	3.1	125,000	2,000,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	948.66	21	0.24	1.0	14.2	566,000	9,056,000
	BRKTN1	Single-family	38	163.10	42	0.39	1.0	3.9	157,000	2,512,000
		Multi-family	0	0.60	68	0.58	1.0	0.0	1,000	16,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	3	12.06	91	0.74	1.0	0.6	22,000	352,000
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	59	251.81	0	0.10	1.0	1.6	62,000	992,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	427.57	19	0.23	1.0	6.1	242,000	3,872,000
	KLNDK1	Single-family	49	113.29	42	0.39	1.0	2.7	109,000	1,744,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	51	116.86	0	0.10	1.0	0.7	29,000	464,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	230.15	21	0.24	1.0	3.5	138,000	2,208,000
	MT1069	Single-family	62	24.00	42	0.39	1.0	0.6	23,000	368,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	38	14.58	0	0.10	1.0	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	38.58	26	0.28	1.0	0.7	27,000	432,000
	PD1140	Single-family	17	33.39	42	0.39	1.0	0.8	32,000	512,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	6	12.42	92	0.74	1.0	0.6	23,000	368,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	76	148.61	0	0.10	1.0	0.9	37,000	592,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	194.42	13	0.19	1.0	2.3	92,000	1,472,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
PD151		Single-family	53	54.42	42	0.39	1.0	1.3	52,000	832,000
		Multi-family	8	7.91	68	0.58	1.0	0.3	11,000	176,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	4	3.86	80	0.66	1.0	0.2	6,000	96,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	35	35.54	0	0.10	1.0	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	101.73	31	0.31	1.0	2.0	78,000	1,248,000
PD1686		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	57	18.05	68	0.58	1.0	0.6	26,000	416,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	43	13.38	0	0.10	1.0	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	31.43	39	0.38	1.0	0.7	29,000	464,000
PD227		Single-family	87	126.59	42	0.39	1.0	3.1	122,000	1,952,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	1	1.82	92	0.74	1.0	0.1	3,000	48,000
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	11	16.57	0	0.10	1.0	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	144.98	38	0.36	1.0	3.2	129,000	2,064,000
PD243		Single-family	65	171.53	42	0.39	1.0	4.1	165,000	2,640,000
		Multi-family	4	11.51	68	0.58	1.0	0.4	16,000	256,000
		Commercial	3	7.54	92	0.74	1.0	0.3	14,000	224,000
		Public	3	8.80	80	0.66	1.0	0.4	14,000	224,000
		Light Industrial	4	9.83	91	0.74	1.0	0.5	18,000	288,000
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	21	56.07	0	0.10	1.0	0.3	14,000	224,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	265.28	39	0.37	1.0	6.1	241,000	3,856,000
PD699		Single-family	45	121.14	42	0.39	1.0	2.9	117,000	1,872,000
		Multi-family	5	13.19	68	0.58	1.0	0.5	19,000	304,000
		Commercial	2	5.30	92	0.74	1.0	0.2	10,000	160,000
		Public	2	6.26	80	0.66	1.0	0.3	10,000	160,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	46	123.38	0	0.10	1.0	0.8	30,000	480,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	269.27	26	0.28	1.0	4.7	186,000	2,976,000
PORTU1		Single-family	25	113.26	42	0.39	1.0	2.7	109,000	1,744,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	75	333.25	0	0.10	1.0	2.1	82,000	1,312,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	446.51	11	0.17	1.0	4.8	191,000	3,056,000
SMB204		Single-family	84	65.10	42	0.39	1.0	1.6	63,000	1,008,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	16	12.63	0	0.10	1.0	0.1	3,000	48,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	77.73	35	0.34	1.0	1.7	66,000	1,056,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB206	Single-family	10	4.30	42	0.39	1.0	0.1	4,000	64,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	90	39.54	0	0.10	1.0	0.2	10,000	160,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	43.84	4	0.13	1.0	0.3	14,000	224,000
	SMB211	Single-family	5	14.98	42	0.39	1.0	0.4	14,000	224,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	13	38.22	92	0.74	1.0	1.8	70,000	1,120,000
		Public	11	31.25	80	0.66	1.0	1.3	51,000	816,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	71	202.27	0	0.10	1.0	1.3	50,000	800,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	286.72	23	0.26	1.0	4.6	185,000	2,960,000
	SMB213	Single-family	54	28.69	42	0.39	1.0	0.7	28,000	448,000
		Multi-family	41	21.55	68	0.58	1.0	0.8	31,000	496,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	5	2.65	0	0.10	1.0	0.0	1,000	16,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	52.89	50	0.45	1.0	1.5	60,000	960,000
	SMB214	Single-family	7	5.12	42	0.39	1.0	0.1	5,000	80,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	93	66.61	0	0.10	1.0	0.4	16,000	256,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	71.73	3	0.12	1.0	0.5	21,000	336,000
	SMB216	Single-family	37	28.06	42	0.39	1.0	0.7	27,000	432,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	63	47.97	0	0.10	1.0	0.3	12,000	192,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	76.03	16	0.21	1.0	1.0	39,000	624,000
	SMB217	Single-family	47	24.87	42	0.39	1.0	0.6	24,000	384,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	53	28.03	0	0.10	1.0	0.2	7,000	112,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	52.90	20	0.24	1.0	0.8	31,000	496,000
28	B1655	Single-family	49	108.87	42	0.39	1.0	2.6	105,000	1,680,000
		Multi-family	7	14.92	68	0.58	1.0	0.5	21,000	336,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	44	99.08	0	0.10	1.0	0.6	24,000	384,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	222.87	25	0.27	1.0	3.8	150,000	2,400,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
PD10961		Single-family	25	31.94	42	0.39	1.0	0.8	31,000	496,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	13	16.28	80	0.66	1.0	0.7	27,000	432,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	63	81.71	0	0.10	1.0	0.5	20,000	320,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	129.93	20	0.24	1.0	1.9	78,000	1,248,000
PD10962		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	7	3.51	80	0.66	1.0	0.1	6,000	96,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	93	44.54	0	0.10	1.0	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	48.05	6	0.14	1.0	0.4	17,000	272,000
PD122		Single-family	40	118.05	42	0.39	1.0	2.9	114,000	1,824,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	2	6.82	80	0.66	1.0	0.3	11,000	176,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	57	168.21	0	0.10	1.0	1.0	42,000	672,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	293.08	19	0.23	1.0	4.2	167,000	2,672,000
PD269		Single-family	57	235.42	42	0.39	1.0	5.7	227,000	3,632,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	2	8.96	80	0.66	1.0	0.4	15,000	240,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	2	8.80	80	0.66	1.0	0.4	14,000	224,000
		Open	39	163.06	0	0.10	1.0	1.0	40,000	640,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	416.24	27	0.29	1.0	7.4	296,000	4,736,000
SMB218		Single-family	37	27.45	42	0.39	1.0	0.7	26,000	416,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	63	46.02	0	0.10	1.0	0.3	11,000	176,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	73.47	16	0.21	1.0	0.9	37,000	592,000
SMB219		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	100	105.64	0	0.10	1.0	0.7	26,000	416,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	105.64	0	0.10	1.0	0.7	26,000	416,000
SMB220		Single-family	0	0.00	42	0.39	1.0	0.0	0	0
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	4	0.31	80	0.66	1.0	0.0	1,000	16,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	96	6.82	0	0.10	1.0	0.0	2,000	32,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	7.13	3	0.12	1.0	0.1	3,000	48,000

TABLE A-1
LAND USES AND HYDROLOGY FOR SANTA MONICA BAY CATCHMENTS

BASIN	CATCHMENT	LAND USE	PERCENT OF TOTAL	LAND USE ACRES	PERCENT IMPERV	RUNOFF COEFF Rv	RAINFALL CORRECTION FACTOR	AVERAGE STORM RUNOFF (CFS)	AVERAGE STORM VOLUME (CU FT)	AVG. ANN. STORM VOLUME (CU FT)
	SMB221	Single-family	6	5.09	42	0.39	1.0	0.1	5,000	80,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	94	81.87	0	0.10	1.0	0.5	20,000	320,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	86.96	2	0.12	1.0	0.6	25,000	400,000
	SMB222	Single-family	49	185.04	42	0.39	1.0	4.5	178,000	2,848,000
		Multi-family	3	11.44	68	0.58	1.0	0.4	16,000	256,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.65	80	0.66	1.0	0.0	1,000	16,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	4	15.60	80	0.66	1.0	0.6	25,000	400,000
		Open	44	167.47	0	0.10	1.0	1.0	41,000	656,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	380.20	26	0.28	1.0	6.6	261,000	4,176,000
	SMB223	Single-family	79	108.49	42	0.39	1.0	2.6	104,000	1,664,000
		Multi-family	2	2.20	68	0.58	1.0	0.1	3,000	48,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	8	10.82	80	0.66	1.0	0.4	18,000	288,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	11	15.46	0	0.10	1.0	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	136.97	41	0.38	1.0	3.2	129,000	2,064,000
	SMB224	Single-family	67	120.48	42	0.39	1.0	2.9	116,000	1,856,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	8	13.85	92	0.74	1.0	0.6	25,000	400,000
		Public	4	6.99	80	0.66	1.0	0.3	11,000	176,000
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	0	0.00	80	0.66	1.0	0.0	0	0
		Open	21	38.00	0	0.10	1.0	0.2	9,000	144,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	179.32	38	0.37	1.0	4.1	161,000	2,576,000
	SMB225	Single-family	81	124.37	42	0.39	1.0	3.0	120,000	1,920,000
		Multi-family	8	12.58	68	0.58	1.0	0.5	18,000	288,000
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	10	15.75	80	0.66	1.0	0.6	26,000	416,000
		Open	0	0.01	0	0.10	1.0	0.0	0	0
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	152.71	48	0.43	1.0	4.1	164,000	2,624,000
	SMB226	Single-family	25	27.36	42	0.39	1.0	0.7	26,000	416,000
		Multi-family	0	0.00	68	0.58	1.0	0.0	0	0
		Commercial	0	0.00	92	0.74	1.0	0.0	0	0
		Public	0	0.00	80	0.66	1.0	0.0	0	0
		Light Industrial	0	0.00	91	0.74	1.0	0.0	0	0
		Other Urban	60	67.24	80	0.66	1.0	2.8	110,000	1,760,000
		Open	15	16.95	0	0.10	1.0	0.1	4,000	64,000
		Unknown	0	0.00	65	0.56	1.0	0.0	0	0
		Catchment Total	100	111.55	59	0.51	1.0	3.5	140,000	2,240,000

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
ARSEQ1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	419,594	1,713	81,350	445.28	119.88	2,397.68	1,241.66	47.10	119.88	376.78	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	419,594	1,713	81,350	445.28	119.88	2,397.68	1,241.66	47.10	119.88	376.78	0
ARSEQ2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	563,049	2,298	109,163	597.52	160.87	3,217.42	1,666.17	63.20	160.87	505.60	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	563,049	2,298	109,163	597.52	160.87	3,217.42	1,666.17	63.20	160.87	505.60	0
ARSEQ3	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	299,640	1,223	58,093	317.99	85.61	1,712.23	886.69	33.63	85.61	269.06	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	299,640	1,223	58,093	317.99	85.61	1,712.23	886.69	33.63	85.61	269.06	0
SMB1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
SMB2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	18,605	76	3,607	19.74	5.32	106.31	55.06	2.09	5.32	16.71	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	18,605	76	3,607	19.74	5.32	106.31	55.06	2.09	5.32	16.71	0
SMB3	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
SMB4	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB10	Single-family	2,898	170	1,399	8.49	2.50	42.97	18.49	0.95	3.50	3.50	30
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,835	182	1,968	11.61	3.34	59.75	27.18	1.28	4.34	6.14	30
SMB11	Single-family	6,085	357	2,938	17.84	5.25	90.23	38.82	1.99	7.34	7.34	63
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	5,875	420	3,637	17.35	3.64	67.15	27.98	2.80	12.31	10.63	616
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,940	780	6,765	36.22	9.16	162.97	69.69	4.90	19.93	18.85	678
SMB12	Single-family	2,028	119	979	5.95	1.75	30.08	12.94	0.66	2.45	2.45	21
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	1,888	135	1,169	5.58	1.17	21.58	8.99	0.90	3.96	3.42	198
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,303	276	3,192	17.24	4.46	82.43	37.87	2.17	7.94	10.70	219
SMB5	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
SMB6	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,323	34	1,614	8.83	2.38	47.56	24.63	0.93	2.38	7.47	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,323	34	1,614	8.83	2.38	47.56	24.63	0.93	2.38	7.47	0
SMB7	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
SMB8	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	11,261	46	2,183	11.95	3.22	64.35	33.32	1.26	3.22	10.11	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	11,261	46	2,183	11.95	3.22	64.35	33.32	1.26	3.22	10.11	0

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB9	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	5,596	37	1,174	6.33	1.67	33.17	16.94	0.70	1.98	5.22	22
SNICH	Single-family	4,636	272	2,238	13.59	4.00	68.74	29.58	1.52	5.60	5.60	48
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	1,259	90	779	3.72	0.78	14.39	6.00	0.60	2.64	2.28	132
	Open	130,725	534	25,345	138.73	37.35	747.00	386.84	14.67	37.35	117.39	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	136,621	895	28,362	156.04	42.13	830.14	422.41	16.79	45.58	125.26	180
WLWCL1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	34,762	142	6,740	36.89	9.93	198.64	102.87	3.90	9.93	31.22	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	34,762	142	6,740	36.89	9.93	198.64	102.87	3.90	9.93	31.22	0
LALIS1	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	146,393	598	28,382	155.36	41.83	836.53	433.20	16.43	41.83	131.45	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	150,450	835	30,341	167.25	45.32	896.68	459.08	17.76	46.72	136.35	42
SMB13	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	1,469	105	909	4.34	0.91	16.79	6.99	0.70	3.08	2.66	154
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,034	191	2,323	12.41	3.17	59.15	27.43	1.57	5.74	8.01	166
SMB14	Single-family	3,477	204	1,679	10.19	3.00	51.56	22.18	1.14	4.20	4.20	36
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	1,679	120	1,039	4.96	1.04	19.18	7.99	0.80	3.52	3.04	176
	Open	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,073	340	3,477	19.30	5.16	93.13	41.77	2.38	8.83	10.75	212
SMB15	Single-family	1,449	85	699	4.25	1.25	21.48	9.24	0.47	1.75	1.75	15
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,386	97	1,269	7.36	2.09	38.27	17.94	0.80	2.59	4.39	15

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB16	Single-family	6,375	374	3,078	18.69	5.50	94.52	40.67	2.09	7.69	7.69	66
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,781	392	3,932	23.36	6.75	119.70	53.71	2.58	8.95	11.65	66
SMB17	Single-family	3,187	187	1,539	9.34	2.75	47.26	20.33	1.04	3.85	3.85	33
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,187	187	1,539	9.34	2.75	47.26	20.33	1.04	3.85	3.85	33
LACHU1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	129,746	530	25,155	137.69	37.07	741.41	383.94	14.56	37.07	116.51	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	129,746	530	25,155	137.69	37.07	741.41	383.94	14.56	37.07	116.51	0
LACHU2	Single-family	2,608	153	1,259	7.64	2.25	38.67	16.64	0.85	3.15	3.15	27
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	12,730	52	2,468	13.51	3.64	72.74	37.67	1.43	3.64	11.43	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	15,338	205	3,727	21.15	5.89	111.41	54.31	2.28	6.78	14.58	27
SMB18	Single-family	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,836	257	2,193	13.26	3.89	67.25	29.18	1.48	5.39	5.69	45
SMB19	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	30,845	126	5,980	32.73	8.81	176.26	91.28	3.46	8.81	27.70	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	39,169	617	10,027	57.13	15.94	298.96	144.03	6.22	19.04	37.87	106
ENCNL1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	169,404	691	32,844	179.78	48.40	968.02	501.30	19.01	48.40	152.12	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	169,404	691	32,844	179.78	48.40	968.02	501.30	19.01	48.40	152.12	0

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
ENCNL2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	11,751	48	2,278	12.47	3.36	67.15	34.77	1.32	3.36	10.55	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	11,751	48	2,278	12.47	3.36	67.15	34.77	1.32	3.36	10.55	0
ENCNL3	Single-family	5,506	323	2,658	16.14	4.75	81.63	35.12	1.80	6.64	6.64	57
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	20,074	82	3,892	21.30	5.74	114.71	59.40	2.25	5.74	18.03	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	25,580	405	6,550	37.44	10.48	196.34	94.52	4.06	12.38	24.67	57
SMB20	Single-family	1,739	102	839	5.10	1.50	25.78	11.09	0.57	2.10	2.10	18
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,145	120	1,694	9.77	2.76	50.96	24.13	1.06	3.36	6.06	18
SMB21	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,365	26	1,234	6.75	1.82	36.37	18.83	0.71	1.82	5.72	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,422	264	3,192	18.65	5.32	96.52	44.71	2.04	6.71	10.61	42
SMB22	Single-family	4,636	272	2,238	13.59	4.00	68.74	29.58	1.52	5.60	5.60	48
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,813	36	1,709	9.35	2.52	50.36	26.08	0.99	2.52	7.91	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	13,449	308	3,947	22.94	6.51	119.10	55.66	2.51	8.11	13.51	48
SMB23	Single-family	4,636	272	2,238	13.59	4.00	68.74	29.58	1.52	5.60	5.60	48
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,532	292	3,187	18.78	5.40	96.72	44.06	2.07	6.99	9.99	48
SMB24	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,855	28	1,329	7.27	1.96	39.17	20.28	0.77	1.96	6.16	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,434	62	1,609	8.97	2.46	47.76	23.98	0.96	2.66	6.85	6

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB30	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,765	71	1,369	7.74	2.15	40.87	20.03	0.83	2.45	5.45	9
SMB31	Single-family	5,216	306	2,518	15.29	4.50	77.34	33.27	1.71	6.29	6.29	54
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,195	310	2,708	16.33	4.78	82.93	36.17	1.82	6.57	7.17	54
SMB32	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	11,071	409	4,072	24.21	7.00	124.00	55.56	2.68	9.30	12.00	69
SMB33	Single-family	6,085	357	2,938	17.84	5.25	90.23	38.82	1.99	7.34	7.34	63
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	11,960	381	4,077	24.07	6.92	123.80	56.21	2.65	9.02	12.62	63
SMB34	Single-family	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,277	144	1,499	8.87	2.56	45.56	20.58	0.98	3.36	4.56	24
STEEP1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	26,928	110	5,221	28.58	7.69	153.88	79.69	3.02	7.69	24.18	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	26,928	110	5,221	28.58	7.69	153.88	79.69	3.02	7.69	24.18	0
STEEP2	Single-family	1,449	85	699	4.25	1.25	21.48	9.24	0.47	1.75	1.75	15
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	11,751	48	2,278	12.47	3.36	67.15	34.77	1.32	3.36	10.55	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	13,199	133	2,978	16.72	4.61	88.63	44.01	1.79	5.11	12.30	15

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB35	Single-family	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	14,858	551	5,476	32.56	9.42	166.77	74.69	3.60	12.52	16.12	93
SMB36	Single-family	17,096	1,002	8,253	50.11	14.74	253.50	109.06	5.60	20.63	20.63	177
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,323	34	1,614	8.83	2.38	47.56	24.63	0.93	2.38	7.47	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	25,420	1,036	9,867	58.94	17.12	301.06	133.69	6.53	23.01	28.11	177
SMB37	Single-family	3,477	204	1,679	10.19	3.00	51.56	22.18	1.14	4.20	4.20	36
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	18,115	74	3,512	19.22	5.18	103.52	53.61	2.03	5.18	16.27	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	21,593	278	5,191	29.42	8.17	155.08	75.79	3.17	9.37	20.46	36
SMB38	Single-family	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,333	307	3,232	19.11	5.51	98.22	44.46	2.11	7.20	9.90	51
SMB39	Single-family	7,534	442	3,637	22.08	6.49	111.71	48.06	2.47	9.09	9.09	78
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
	Unknown	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Catchment Total	11,870	488	4,656	27.48	7.87	138.89	61.65	3.11	11.09	13.37	122
SMB40	Single-family	4,636	272	2,238	13.59	4.00	68.74	29.58	1.52	5.60	5.60	48
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,855	28	1,329	7.27	1.96	39.17	20.28	0.77	1.96	6.16	0
	Unknown	1,259	90	779	3.72	0.78	14.39	6.00	0.60	2.64	2.28	132
	Catchment Total	12,750	390	4,347	24.58	6.73	122.30	55.86	2.89	10.19	14.03	180
SMB41	Single-family	54,187	3,176	26,159	158.82	46.71	803.46	345.67	17.75	65.40	65.40	561
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	13,219	54	2,563	14.03	3.78	75.54	39.12	1.48	3.78	11.87	0
	Unknown	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Catchment Total	68,036	3,275	29,112	174.71	50.88	886.19	387.79	19.53	70.49	78.41	626

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB42	Single-family	44,914	2,633	21,683	131.64	38.72	665.97	286.52	14.71	54.21	54.21	465
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,957	308	1,978	9.45	3.96	43.96	26.38	1.58	4.95	15.26	484
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	26,439	108	5,126	28.06	7.55	151.08	78.24	2.97	7.55	23.74	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	75,520	3,064	28,917	169.77	50.36	863.41	392.14	19.36	67.15	93.58	970
SMB43	Single-family	12,750	747	6,155	37.37	10.99	189.05	81.33	4.18	15.39	15.39	132
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	8,993	699	4,496	21.48	8.99	99.92	59.95	3.60	11.24	34.67	1,099
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Catchment Total	25,799	1,506	11,706	64.35	21.35	315.75	154.43	8.46	28.93	54.28	1,297
SMB44	Single-family	16,807	985	8,114	49.26	14.49	249.20	107.21	5.51	20.28	20.28	174
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	719	56	360	1.72	0.72	7.99	4.80	0.29	0.90	2.77	88
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,303	38	1,804	9.87	2.66	53.16	27.53	1.04	2.66	8.35	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	26,829	1,079	10,277	60.85	17.87	310.35	139.54	6.84	23.84	31.41	262
SMB45	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,365	26	1,234	6.75	1.82	36.37	18.83	0.71	1.82	5.72	0
	Unknown	1,469	105	909	4.34	0.91	16.79	6.99	0.70	3.08	2.66	154
	Catchment Total	14,498	522	5,361	30.63	8.47	151.98	68.35	3.60	12.94	16.42	223
TRANC1	Single-family	17,096	1,002	8,253	50.11	14.74	253.50	109.06	5.60	20.63	20.63	177
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	19,065	1,483	9,532	45.54	19.06	211.83	127.10	7.63	23.83	73.51	2,330
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	852,408	3,479	165,263	904.60	243.55	4,870.90	2,522.43	95.68	243.55	765.43	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	888,569	5,964	183,048	1,000.25	277.35	5,336.23	2,758.59	108.90	288.01	859.57	2,507
TRANC2	Single-family	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,792	40	1,898	10.39	2.80	55.96	28.98	1.10	2.80	8.79	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,110	176	3,018	17.19	4.80	90.33	43.76	1.86	5.60	11.59	24
TRANC3	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	55,326	226	10,726	58.71	15.81	316.15	163.72	6.21	15.81	49.68	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	56,195	277	11,146	61.26	16.56	329.04	169.26	6.49	16.86	50.73	9

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
TRANC4	Single-family	11,011	645	5,316	32.27	9.49	163.27	70.24	3.61	13.29	13.29	114
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	15,418	663	6,170	36.95	10.75	188.45	83.28	4.10	14.55	17.25	114
TRANC5	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	13,219	54	2,563	14.03	3.78	75.54	39.12	1.48	3.78	11.87	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	14,378	122	3,123	17.43	4.78	92.73	46.51	1.86	5.18	13.27	12
TRANC6	Single-family	13,329	781	6,435	39.07	11.49	197.64	85.03	4.37	16.09	16.09	138
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	17,626	72	3,417	18.71	5.04	100.72	52.16	1.98	5.04	15.83	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	30,955	853	9,852	57.77	16.53	298.36	137.19	6.34	21.12	31.91	138
SMB50	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Catchment Total	1,119	47	485	2.38	0.53	9.99	4.45	0.35	1.46	1.58	66
SMB51	Single-family	13,909	815	6,715	40.77	11.99	206.23	88.73	4.56	16.79	16.79	144
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	15,588	836	7,129	42.95	12.54	217.03	94.07	4.82	17.65	18.49	166
SMB52	Single-family	40,857	2,395	19,724	119.75	35.22	605.81	260.64	13.38	49.31	49.31	423
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	540	42	270	1.29	0.54	6.00	3.60	0.22	0.67	2.08	66
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,792	40	1,898	10.39	2.80	55.96	28.98	1.10	2.80	8.79	0
	Unknown	1,679	120	1,039	4.96	1.04	19.18	7.99	0.80	3.52	3.04	176
	Catchment Total	52,868	2,597	22,932	136.39	39.60	686.95	301.21	15.50	56.30	63.22	664
SMB53	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Catchment Total	5,456	272	2,408	14.17	4.04	70.54	30.78	1.64	6.06	6.53	86

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB54	Single-family	11,011	645	5,316	32.27	9.49	163.27	70.24	3.61	13.29	13.29	114
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	11,711	662	5,541	33.41	9.76	168.47	72.69	3.76	13.87	14.11	136
SMB55	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	1,469	105	909	4.34	0.91	16.79	6.99	0.70	3.08	2.66	154
	Catchment Total	1,958	107	1,004	4.86	1.05	19.58	8.44	0.75	3.22	3.10	154
SMB56	Single-family	8,403	493	4,057	24.63	7.24	124.60	53.61	2.75	10.14	10.14	87
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Catchment Total	11,271	533	4,791	28.47	8.20	143.39	62.85	3.23	11.72	13.10	131
SMB57	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	1,049	75	649	3.10	0.65	11.99	5.00	0.50	2.20	1.90	110
	Catchment Total	2,518	81	934	4.66	1.07	20.38	9.34	0.66	2.62	3.22	110
SMB58	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
SMB59	Single-family	1,449	85	699	4.25	1.25	21.48	9.24	0.47	1.75	1.75	15
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,428	89	889	5.29	1.53	27.08	12.14	0.58	2.03	2.63	15
SMB60	Single-family	2,608	153	1,259	7.64	2.25	38.67	16.64	0.85	3.15	3.15	27
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,098	155	1,354	8.16	2.39	41.47	18.09	0.91	3.29	3.59	27

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
ZUMA1	Single-family	18,835	1,104	9,093	55.21	16.24	279.28	120.15	6.17	22.73	22.73	195
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	18,525	1,441	9,263	44.25	18.53	205.84	123.50	7.41	23.16	71.42	2,264
	Public	58,273	4,532	29,137	139.21	58.27	647.48	388.49	23.31	72.84	224.68	7,122
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	320,204	1,307	62,080	339.81	91.49	1,829.74	947.54	35.94	91.49	287.53	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	415,837	8,384	109,572	578.48	184.52	2,962.33	1,579.69	72.83	210.22	606.36	9,581
ZUMA2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	178,217	727	34,552	189.13	50.92	1,018.38	527.38	20.00	50.92	160.03	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	178,217	727	34,552	189.13	50.92	1,018.38	527.38	20.00	50.92	160.03	0
ZUMA3	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	433,793	1,771	84,103	460.35	123.94	2,478.82	1,283.67	48.69	123.94	389.53	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	440,457	2,161	87,320	479.89	129.69	2,577.64	1,326.19	50.87	131.98	397.57	69
ZUMA4	Single-family	57,954	3,397	27,978	169.86	49.96	859.31	369.70	18.98	69.94	69.94	600
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	3,058	238	1,529	7.30	3.06	33.97	20.38	1.22	3.82	11.79	374
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	39,169	160	7,594	41.57	11.19	223.82	115.91	4.40	11.19	35.17	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	100,180	3,795	37,100	218.73	64.21	1,117.11	505.99	24.60	84.96	116.90	973
RAMRZ1	Single-family	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	261,451	1,067	50,689	277.46	74.70	1,494.00	773.68	29.35	74.70	234.77	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	265,797	1,322	52,788	290.20	78.45	1,558.45	801.41	30.77	79.95	240.02	45
RAMRZ2	Single-family	3,187	187	1,539	9.34	2.75	47.26	20.33	1.04	3.85	3.85	33
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	16,647	68	3,227	17.67	4.76	95.12	49.26	1.87	4.76	14.95	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	19,834	255	4,766	27.01	7.50	142.39	69.59	2.91	8.60	18.79	33
RAMRZ3	Single-family	15,358	900	7,414	45.01	13.24	227.72	97.97	5.03	18.54	18.54	159
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	18,115	74	3,512	19.22	5.18	103.52	53.61	2.03	5.18	16.27	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	33,473	974	10,926	64.24	18.42	331.23	151.58	7.06	23.71	34.80	159

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
RAMR24	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	14,199	58	2,753	15.07	4.06	81.14	42.02	1.59	4.06	12.75	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	15,068	109	3,172	17.62	4.81	94.02	47.56	1.88	5.11	13.80	9
RAMR25	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	2,938	210	1,819	8.67	1.82	33.57	13.99	1.40	6.16	5.32	308
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,365	26	1,234	6.75	1.82	36.37	18.83	0.71	1.82	5.72	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,416	711	6,969	39.21	10.63	190.25	84.58	4.77	17.77	20.82	392
SMB61	Single-family	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	9,682	544	4,561	27.47	8.01	138.39	59.75	3.10	11.42	11.66	115
SMB62	Single-family	57,374	3,363	27,698	168.17	49.46	850.72	366.01	18.79	69.24	69.24	594
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	2,698	210	1,349	6.44	2.70	29.98	17.99	1.08	3.37	10.40	330
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	60,562	3,575	29,142	175.13	52.30	883.49	385.44	19.93	72.76	80.09	923
SMB63	Single-family	51,289	3,007	24,760	150.33	44.21	760.49	327.19	16.80	61.90	61.90	531
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	13,219	54	2,563	14.03	3.78	75.54	39.12	1.48	3.78	11.87	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	67,026	3,256	28,582	170.37	50.51	864.01	383.09	19.29	68.82	83.48	838
SMB64	Single-family	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
SMB65	Single-family	2,028	119	979	5.95	1.75	30.08	12.94	0.66	2.45	2.45	21
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,028	119	979	5.95	1.75	30.08	12.94	0.66	2.45	2.45	21

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB711	Single-family	5,216	306	2,518	15.29	4.50	77.34	33.27	1.71	6.29	6.29	54
	Multi-family	1,679	120	1,039	4.96	1.04	19.18	7.99	0.80	3.52	3.04	176
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,770	450	4,696	26.48	7.21	130.10	58.65	3.17	11.49	14.61	230
SMB712	Single-family	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,815	261	2,383	14.30	4.17	72.84	32.07	1.59	5.67	6.56	45
SMB713	Single-family	15,068	883	7,274	44.16	12.99	223.42	96.12	4.94	18.19	18.19	156
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	18,006	895	7,844	47.28	13.83	240.21	104.82	5.27	19.02	20.82	156
SMB72	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
SMB73	Single-family	32,744	1,919	15,807	95.97	28.23	485.51	208.88	10.73	39.52	39.52	339
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	22,522	92	4,367	23.90	6.43	128.70	66.65	2.53	6.43	20.22	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	55,476	2,026	20,304	120.49	34.79	616.61	276.53	13.35	46.39	60.12	361
WALCN1	Single-family	2,608	153	1,259	7.64	2.25	38.67	16.64	0.85	3.15	3.15	27
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,365	26	1,234	6.75	1.82	36.37	18.83	0.71	1.82	5.72	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,973	179	2,493	14.40	4.07	75.04	35.47	1.57	4.97	8.86	27
WALCN2	Single-family	290	17	140	0.85	0.25	4.30	1.85	0.09	0.35	0.35	3
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,227	29	709	3.97	1.09	21.08	10.54	0.42	1.19	2.99	3

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
WALCN3	Single-family	9,273	544	4,476	27.18	7.99	137.49	59.15	3.04	11.19	11.19	96
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	13,219	54	2,563	14.03	3.78	75.54	39.12	1.48	3.78	11.87	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	22,492	598	7,039	41.21	11.77	213.03	98.27	4.52	14.97	23.06	96
WALCN4	Single-family	290	17	140	0.85	0.25	4.30	1.85	0.09	0.35	0.35	3
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,303	38	1,804	9.87	2.66	53.16	27.53	1.04	2.66	8.35	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,592	55	1,943	10.72	2.91	57.45	29.38	1.14	3.01	8.70	3
WALCN5	Single-family	31,005	1,818	14,968	90.88	26.73	459.73	197.79	10.16	37.42	37.42	321
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	31,984	1,822	15,158	91.92	27.01	465.33	200.69	10.27	37.70	38.30	321
ESCON1	Single-family	15,937	934	7,694	46.71	13.74	236.31	101.67	5.22	19.23	19.23	165
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	290,338	1,185	56,290	308.11	82.95	1,659.07	859.16	32.59	82.95	260.71	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	306,275	2,119	63,984	354.83	96.69	1,895.38	960.83	37.81	102.19	279.95	165
ESCON2	Single-family	19,994	1,172	9,652	58.60	17.24	296.46	127.55	6.55	24.13	24.13	207
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	18,605	76	3,607	19.74	5.32	106.31	55.06	2.09	5.32	16.71	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	38,809	1,263	13,389	78.97	22.68	405.18	183.60	8.74	29.89	41.22	229
SMB74	Single-family	28,687	1,682	13,849	84.08	24.73	425.36	183.00	9.40	34.62	34.62	297
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,813	36	1,709	9.35	2.52	50.36	26.08	0.99	2.52	7.91	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	37,710	1,733	15,687	94.05	27.38	478.12	210.08	10.49	37.58	42.92	319
DRYML1	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	47,982	196	9,303	50.92	13.71	274.18	141.99	5.39	13.71	43.09	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	48,561	230	9,582	52.62	14.21	282.77	145.68	5.58	14.41	43.78	6

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
DRYML2	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	31,825	130	6,170	33.77	9.09	181.85	94.17	3.57	9.09	28.58	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	38,489	521	9,387	53.31	14.84	280.68	136.69	5.76	17.14	36.62	69
LATIG1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	109,672	448	21,263	116.39	31.33	626.70	324.54	12.31	31.33	98.48	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	109,672	448	21,263	116.39	31.33	626.70	324.54	12.31	31.33	98.48	0
LATIG2	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,365	26	1,234	6.75	1.82	36.37	18.83	0.71	1.82	5.72	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	14,688	517	5,281	31.16	8.94	159.07	71.59	3.47	12.05	15.89	106
SMB75	Single-family	14,778	866	7,134	43.32	12.74	219.12	94.27	4.84	17.84	17.84	153
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	839	60	520	2.48	0.52	9.59	4.00	0.40	1.76	1.52	88
	Catchment Total	20,024	944	8,508	50.47	14.52	253.90	111.31	5.74	20.85	23.31	241
SMB81	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
SMB82	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
SOLST1	Single-family	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	407,354	1,663	78,977	432.29	116.39	2,327.74	1,205.43	45.72	116.39	365.79	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	413,149	2,002	81,775	449.28	121.38	2,413.67	1,242.41	47.62	123.38	372.78	60

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB86	Single-family	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	11,671	364	3,937	23.22	6.67	119.50	54.36	2.56	8.67	12.27	60
SMB87	Single-family	7,534	442	3,637	22.08	6.49	111.71	48.06	2.47	9.09	9.09	78
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	360	28	180	0.86	0.36	4.00	2.40	0.14	0.45	1.39	44
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	19,095	78	3,702	20.26	5.46	109.11	56.50	2.14	5.46	17.15	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	26,988	548	7,519	43.21	12.31	224.82	106.96	4.76	15.00	27.63	122
SMB88	Single-family	6,954	408	3,357	20.38	6.00	103.12	44.36	2.28	8.39	8.39	72
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	3,058	238	1,529	7.30	3.06	33.97	20.38	1.22	3.82	11.79	374
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,950	657	5,456	30.81	9.89	153.88	73.44	3.83	13.05	22.82	446
SMB89	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
SMB90	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	15,827	1,231	7,914	37.81	15.83	175.86	105.52	6.33	19.78	61.02	1,934
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,365	26	1,234	6.75	1.82	36.37	18.83	0.71	1.82	5.72	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	22,192	1,257	9,148	44.56	17.65	212.23	124.35	7.05	21.60	66.74	1,934
SMB91	Single-family	290	17	140	0.85	0.25	4.30	1.85	0.09	0.35	0.35	3
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,165	41	1,279	7.08	1.93	37.87	19.23	0.75	2.03	5.63	3
SMB92	Single-family	14,488	849	6,994	42.47	12.49	214.83	92.43	4.75	17.49	17.49	150
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	4,676	364	2,338	11.17	4.68	51.96	31.18	1.87	5.85	18.03	572
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	25,040	1,237	10,472	59.87	18.84	300.36	140.99	7.28	25.01	40.79	721

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SOLST2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	10,282	42	1,993	10.91	2.94	58.75	30.43	1.15	2.94	9.23	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,282	42	1,993	10.91	2.94	58.75	30.43	1.15	2.94	9.23	0
CORRL1	Single-family	18,835	1,104	9,093	55.21	16.24	279.28	120.15	6.17	22.73	22.73	195
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	367,206	1,499	71,193	389.69	104.92	2,098.32	1,086.63	41.22	104.92	329.74	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	386,041	2,603	80,286	444.89	121.15	2,377.60	1,206.78	47.39	127.65	352.47	195
CORRL2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	30,356	124	5,885	32.21	8.67	173.46	89.83	3.41	8.67	27.26	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	30,356	124	5,885	32.21	8.67	173.46	89.83	3.41	8.67	27.26	0
MARIE1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	23,201	1,805	11,601	55.43	23.20	257.79	154.68	9.28	29.00	89.45	2,836
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	38,679	158	7,499	41.05	11.05	221.02	114.46	4.34	11.05	34.73	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	61,880	1,962	19,100	96.47	34.25	478.82	269.13	13.62	40.05	124.19	2,836
MARIE2	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,765	71	1,369	7.74	2.15	40.87	20.03	0.83	2.45	5.45	9
MARIE3	Single-family	11,880	696	5,735	34.82	10.24	176.16	75.79	3.89	14.34	14.34	123
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	540	42	270	1.29	0.54	6.00	3.60	0.22	0.67	2.08	66
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	13,889	744	6,290	37.67	11.20	190.55	83.73	4.27	15.43	17.74	189
MARIE4	Single-family	3,767	221	1,819	11.04	3.25	55.86	24.03	1.23	4.55	4.55	39
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	22,482	1,749	11,241	53.71	22.48	249.80	149.88	8.99	28.10	86.68	2,748
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	26,249	1,969	13,060	64.75	25.73	305.66	173.91	10.23	32.65	91.23	2,787

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
MARIE5	Single-family	3,187	187	1,539	9.34	2.75	47.26	20.33	1.04	3.85	3.85	33
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,417	266	1,709	8.16	3.42	37.97	22.78	1.37	4.27	13.18	418
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,480	477	4,386	23.74	7.84	118.80	60.50	3.07	9.80	22.30	451
PUERC1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	64,139	262	12,435	68.07	18.33	366.51	189.80	7.20	18.33	57.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	64,139	262	12,435	68.07	18.33	366.51	189.80	7.20	18.33	57.59	0
PUERC2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
PUERC3	Single-family	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	1,439	112	719	3.44	1.44	15.99	9.59	0.58	1.80	5.55	176
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	21,053	86	4,082	22.34	6.02	120.30	62.30	2.36	6.02	18.90	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	28,287	538	7,599	42.77	12.45	222.22	108.86	4.84	14.81	31.45	236
SMB83	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
SMB84	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
SMB85	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,965	56	1,324	7.41	2.04	39.37	19.63	0.79	2.24	5.54	6

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
WINCN1	Single-family	3,767	221	1,819	11.04	3.25	55.86	24.03	1.23	4.55	4.55	39
	Multi-family	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	8,993	699	4,496	21.48	8.99	99.92	59.95	3.60	11.24	34.67	1,099
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	31,825	130	6,170	33.77	9.09	181.85	94.17	3.57	9.09	28.58	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	45,214	1,095	12,875	68.16	21.72	344.82	181.15	8.70	26.20	68.93	1,204
CHESE1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	31,894	2,278	19,744	94.16	19.74	364.51	151.88	15.19	66.83	57.71	3,341
	Open	317,756	1,297	61,606	337.21	90.79	1,815.75	940.30	35.67	90.79	285.33	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	349,650	3,575	81,350	431.37	110.53	2,180.25	1,092.18	50.85	157.61	343.05	3,341
CHESE2	Single-family	82,584	4,841	39,868	242.06	71.19	1,224.52	526.83	27.05	99.67	99.67	854
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	17,806	1,385	8,903	42.54	17.81	197.84	118.70	7.12	22.26	68.65	2,176
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	60,222	246	11,676	63.91	17.21	344.12	178.21	6.76	17.21	54.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	160,611	6,472	60,447	348.50	106.20	1,766.49	823.74	40.94	139.13	222.40	3,031
COLDK1	Single-family	50,999	2,990	24,620	149.48	43.96	756.19	325.34	16.71	61.55	61.55	528
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	8,183	585	5,066	24.16	5.07	93.53	38.97	3.90	17.15	14.81	857
	Open	153,247	625	29,711	162.63	43.78	875.70	453.49	17.20	43.78	137.61	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	212,430	4,200	59,397	336.27	92.82	1,725.42	817.80	37.80	122.48	213.97	1,385
COLDK2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	178,707	729	34,647	189.65	51.06	1,021.18	528.83	20.06	51.06	160.47	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	178,707	729	34,647	189.65	51.06	1,021.18	528.83	20.06	51.06	160.47	0
COLDK3	Single-family	67,226	3,941	32,454	197.04	57.95	996.80	428.86	22.02	81.14	81.14	695
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	348,601	1,423	67,586	369.94	99.60	1,992.01	1,031.57	39.13	99.60	313.03	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	415,827	5,364	100,040	566.99	157.55	2,988.81	1,460.43	61.15	180.74	394.16	695
COLDK4	Single-family	6,375	374	3,078	18.69	5.50	94.52	40.67	2.09	7.69	7.69	66
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	50,919	208	9,872	54.04	14.55	290.97	150.68	5.72	14.55	45.72	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	57,294	582	12,950	72.72	20.04	385.49	191.35	7.80	22.24	53.42	66

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
COLDK5	Single-family	62,590	3,669	30,216	183.45	53.96	928.06	399.28	20.50	75.54	75.54	647
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	57,284	234	11,106	60.79	16.37	327.34	169.51	6.43	16.37	51.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	119,874	3,903	41,322	244.24	70.32	1,255.39	568.79	26.93	91.91	126.98	647
DARCKC1	Single-family	10,142	595	4,896	29.73	8.74	150.38	64.70	3.32	12.24	12.24	105
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	113,099	462	21,927	120.02	32.31	646.28	334.68	12.69	32.31	101.56	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	123,241	1,056	26,824	149.75	41.06	796.66	399.38	16.02	44.55	113.80	105
ELVRG1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	226,199	923	43,855	240.05	64.63	1,292.57	669.36	25.39	64.63	203.12	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	226,199	923	43,855	240.05	64.63	1,292.57	669.36	25.39	64.63	203.12	0
GATES1	Single-family	12,460	730	6,015	36.52	10.74	184.75	79.49	4.08	15.04	15.04	129
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	74,910	306	14,523	79.50	21.40	428.06	221.67	8.41	21.40	67.27	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	87,370	1,036	20,539	116.02	32.14	612.81	301.16	12.49	36.44	82.30	129
LESIER1	Single-family	30,426	1,784	14,688	89.18	26.23	451.14	194.09	9.97	36.72	36.72	315
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	311,391	1,271	60,372	330.46	88.97	1,779.38	921.46	34.95	88.97	279.62	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	341,816	3,055	75,060	419.63	115.20	2,230.51	1,115.56	44.92	125.69	316.34	315
LIBTY1	Single-family	41,147	2,412	19,864	120.60	35.47	610.11	262.49	13.48	49.66	49.66	426
	Multi-family	16,157	1,154	10,002	47.70	10.00	184.65	76.94	7.69	33.85	29.24	1,693
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	28,117	2,008	17,406	83.01	17.41	321.34	133.89	13.39	58.91	50.88	2,946
	Open	256,555	1,047	49,740	272.26	73.30	1,466.03	759.19	28.80	73.30	230.38	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	341,976	6,622	97,012	523.58	136.18	2,582.13	1,232.51	63.36	215.73	360.15	5,064
LNDRO1	Single-family	237,320	13,912	114,568	695.59	204.59	3,518.88	1,513.94	77.74	286.42	286.42	2,455
	Multi-family	16,157	1,154	10,002	47.70	10.00	184.65	76.94	7.69	33.85	29.24	1,693
	Commercial	43,885	3,413	21,942	104.84	43.88	487.61	292.57	17.55	54.86	169.20	5,364
	Public	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Light Industrial	7,554	588	3,777	18.05	7.55	83.93	50.36	3.02	9.44	29.12	923
	Other Urban	88,759	6,340	54,946	262.05	54.95	1,014.39	422.66	42.27	185.97	160.61	9,299
	Open	518,005	2,114	100,430	549.72	148.00	2,960.03	1,532.87	58.14	148.00	465.15	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	916,896	27,927	308,273	1,690.41	474.19	8,307.45	3,924.11	208.51	725.06	1,159.85	20,371

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
LOBOC1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	336,361	1,373	65,213	356.95	96.10	1,922.06	995.35	37.75	96.10	302.04	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	336,361	1,373	65,213	356.95	96.10	1,922.06	995.35	37.75	96.10	302.04	0
LOBOC2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	17,136	70	3,322	18.19	4.90	97.92	50.71	1.92	4.90	15.39	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,136	70	3,322	18.19	4.90	97.92	50.71	1.92	4.90	15.39	0
LOBOC3	Single-family	28,977	1,699	13,989	84.93	24.98	429.66	184.85	9.49	34.97	34.97	300
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	68,056	278	13,194	72.22	19.44	388.89	201.39	7.64	19.44	61.11	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	97,032	1,976	27,183	157.15	44.42	818.54	386.24	17.13	54.42	96.08	300
LVIRG2	Single-family	53,607	3,142	25,879	157.12	46.21	794.86	341.98	17.56	64.70	64.70	555
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	6,115	476	3,058	14.61	6.12	67.95	40.77	2.45	7.64	23.58	747
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	32,314	2,308	20,004	95.40	20.00	369.30	153.88	15.39	67.71	58.47	3,385
	Open	142,476	582	27,623	151.20	40.71	814.15	421.61	15.99	40.71	127.94	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	234,512	6,508	76,564	418.34	113.04	2,046.26	958.23	51.39	180.76	274.69	4,687
LVIRG3	Single-family	11,011	645	5,316	32.27	9.49	163.27	70.24	3.61	13.29	13.29	114
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	21,403	1,529	13,249	63.19	13.25	244.60	101.92	10.19	44.84	38.73	2,242
	Open	207,104	845	40,153	219.78	59.17	1,183.45	612.86	23.25	59.17	185.97	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	242,756	3,271	60,337	322.98	85.15	1,627.30	806.60	38.34	121.35	250.47	2,752
LVIRG4	Single-family	35,931	2,106	17,346	105.32	30.98	532.77	229.22	11.77	43.37	43.37	372
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	5,576	434	2,788	13.32	5.58	61.95	37.17	2.23	6.97	21.50	681
	Public	7,374	574	3,687	17.62	7.37	81.93	49.16	2.95	9.22	28.43	901
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	208,573	14,898	129,117	615.79	129.12	2,383.69	993.20	99.32	437.01	377.42	21,851
	Open	423,511	1,729	82,109	449.44	121.00	2,420.06	1,253.25	47.54	121.00	380.30	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	680,965	19,740	235,047	1,201.48	294.04	5,480.41	2,562.00	163.81	617.57	851.01	23,805
LVIRG5	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	71,972	294	13,954	76.38	20.56	411.27	212.98	8.08	20.56	64.63	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	71,972	294	13,954	76.38	20.56	411.27	212.98	8.08	20.56	64.63	0

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
LVRG1	Single-family	11,301	662	5,456	33.12	9.74	167.57	72.09	3.70	13.64	13.64	117
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	497,931	2,032	96,538	528.42	142.27	2,845.32	1,473.47	55.89	142.27	447.12	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	509,232	2,695	101,993	561.54	152.01	3,012.89	1,545.56	59.59	155.91	460.76	117
MALIBU1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	191,437	781	37,115	203.16	54.70	1,093.92	566.50	21.49	54.70	171.90	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	191,437	781	37,115	203.16	54.70	1,093.92	566.50	21.49	54.70	171.90	0
MALIBU2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	19,095	78	3,702	20.26	5.46	109.11	56.50	2.14	5.46	17.15	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	19,095	78	3,702	20.26	5.46	109.11	56.50	2.14	5.46	17.15	0
MALIBU3	Single-family	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	192,906	787	37,400	204.72	55.12	1,102.32	570.84	21.65	55.12	173.22	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	197,832	1,076	39,778	219.15	59.36	1,175.36	602.27	23.27	61.06	179.17	51
MALIBU4	Single-family	290	17	140	0.85	0.25	4.30	1.85	0.09	0.35	0.35	3
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	15,667	64	3,038	16.63	4.48	89.53	46.36	1.76	4.48	14.07	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	15,957	81	3,177	17.48	4.73	93.82	48.21	1.85	4.83	14.42	3
MALIBU5	Single-family	79,107	4,637	38,189	231.86	68.20	1,172.96	504.65	25.91	95.47	95.47	818
	Multi-family	2,308	165	1,429	6.81	1.43	26.38	10.99	1.10	4.84	4.18	242
	Commercial	13,669	1,063	6,835	32.65	13.67	151.88	91.13	5.47	17.09	52.70	1,671
	Public	7,374	574	3,687	17.62	7.37	81.93	49.16	2.95	9.22	28.43	901
	Light Industrial	4,856	378	2,428	11.60	4.86	53.96	32.37	1.94	6.07	18.72	594
	Other Urban	3,357	240	2,078	9.91	2.08	38.37	15.99	1.60	7.03	6.08	352
	Open	451,419	1,843	87,520	479.06	128.98	2,579.53	1,335.83	50.67	128.98	405.36	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	562,090	8,899	142,166	789.52	226.58	4,105.01	2,040.12	89.64	268.69	610.94	4,577
MEDEA1	Single-family	12,170	713	5,875	35.67	10.49	180.46	77.64	3.99	14.69	14.69	126
	Multi-family	12,170	869	7,534	35.93	7.53	139.09	57.95	5.80	25.50	22.02	1,275
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	13,669	1,063	6,835	32.65	13.67	151.88	91.13	5.47	17.09	52.70	1,671
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	195,843	799	37,970	207.83	55.96	1,119.10	579.54	21.98	55.96	175.86	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	233,853	3,445	58,213	312.09	87.65	1,590.53	806.25	37.23	113.23	265.27	3,072

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
MEDEA2	Single-family	3,767	221	1,819	11.04	3.25	55.86	24.03	1.23	4.55	4.55	39
	Multi-family	20,773	1,484	12,860	61.33	12.86	237.41	98.92	9.89	43.53	37.59	2,176
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	360	28	180	0.86	0.36	4.00	2.40	0.14	0.45	1.39	44
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	6,715	480	4,157	19.82	4.16	76.74	31.97	3.20	14.07	12.15	703
	Open	49,450	202	9,587	52.48	14.13	282.57	146.33	5.55	14.13	44.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	81,065	2,414	28,602	145.53	34.75	656.57	303.66	20.02	76.72	100.08	2,963
MEDEA3	Single-family	398,721	23,373	192,486	1,168.66	343.72	5,912.07	2,543.56	130.62	481.21	481.21	4,125
	Multi-family	6,505	465	4,027	19.20	4.03	74.34	30.98	3.10	13.63	11.77	681
	Commercial	19,784	1,539	9,892	47.26	19.78	219.82	131.89	7.91	24.73	76.28	2,418
	Public	27,878	2,168	13,939	66.60	27.88	309.75	185.85	11.15	34.85	107.48	3,407
	Light Industrial	19,784	1,539	9,892	47.26	19.78	219.82	131.89	7.91	24.73	76.28	2,418
	Other Urban	29,376	2,098	18,185	86.73	18.19	335.73	139.89	13.99	61.55	53.16	3,078
	Open	164,998	673	31,989	175.10	47.14	942.85	488.26	18.52	47.14	148.16	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	667,046	31,855	280,410	1,610.82	480.53	8,014.38	3,652.33	193.20	687.84	954.35	16,127
MEDEA4	Single-family	172,702	10,124	83,373	506.19	148.88	2,560.75	1,101.72	56.57	208.43	208.43	1,787
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	273,201	1,115	52,968	289.93	78.06	1,561.15	808.45	30.67	78.06	245.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	445,903	11,239	136,341	796.12	226.94	4,121.90	1,910.17	87.24	286.49	453.76	1,787
PCMDO1	Single-family	50,709	2,973	24,480	148.63	43.72	751.90	323.49	16.61	61.20	61.20	525
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	383,853	1,567	74,420	407.35	109.67	2,193.44	1,135.89	43.09	109.67	344.68	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	434,562	4,539	98,901	555.98	153.39	2,945.34	1,459.38	59.70	170.87	405.89	525
POTVY1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	83,093	5,935	51,439	245.32	51.44	949.64	395.68	39.57	174.10	150.36	8,705
	Open	753,507	3,076	146,088	799.64	215.29	4,305.75	2,229.76	84.58	215.29	676.62	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	836,600	9,011	197,527	1,044.96	266.73	5,255.39	2,625.45	124.15	389.39	826.98	8,705
POTVY10	Single-family	39,698	2,327	19,165	116.36	34.22	588.63	253.25	13.00	47.91	47.91	411
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,777	294	1,888	9.02	3.78	41.97	25.18	1.51	4.72	14.56	462
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	91,067	372	17,656	96.64	26.02	520.38	269.48	10.22	26.02	81.77	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	134,542	2,993	38,709	222.02	64.02	1,150.98	547.91	24.74	78.65	144.25	872
POTVY11	Single-family	1,739	102	839	5.10	1.50	25.78	11.09	0.57	2.10	2.10	18
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	160,102	653	31,040	169.90	45.74	914.87	473.77	17.97	45.74	143.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	164,358	951	33,138	181.02	49.76	968.62	501.65	19.55	50.99	155.57	326

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
POTVY12	Single-family	141,697	8,306	68,405	415.32	122.15	2,101.02	903.93	46.42	171.01	171.01	1,466
	Multi-family	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,792	40	1,898	10.39	2.80	55.96	28.98	1.10	2.80	8.79	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	151,908	8,376	70,564	426.95	125.21	2,161.77	934.90	47.72	174.69	180.57	1,510
POTVY2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	150,799	616	29,237	160.03	43.09	861.71	446.24	16.93	43.09	135.41	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	150,799	616	29,237	160.03	43.09	861.71	446.24	16.93	43.09	135.41	0
POTVY3	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	132,684	542	25,724	140.81	37.91	758.19	392.64	14.89	37.91	119.14	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	132,684	542	25,724	140.81	37.91	758.19	392.64	14.89	37.91	119.14	0
POTVY4	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	39,169	160	7,594	41.57	11.19	223.82	115.91	4.40	11.19	35.17	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	39,169	160	7,594	41.57	11.19	223.82	115.91	4.40	11.19	35.17	0
POTVY5	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	14,688	60	2,848	15.59	4.20	83.93	43.47	1.65	4.20	13.19	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	14,688	60	2,848	15.59	4.20	83.93	43.47	1.65	4.20	13.19	0
POTVY6	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	34,762	142	6,740	36.89	9.93	198.64	102.87	3.90	9.93	31.22	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	34,762	142	6,740	36.89	9.93	198.64	102.87	3.90	9.93	31.22	0
POTVY7	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	33,783	138	6,550	35.85	9.65	193.05	99.97	3.79	9.65	30.34	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	33,783	138	6,550	35.85	9.65	193.05	99.97	3.79	9.65	30.34	0

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
POTVY8	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	822,541	3,357	159,472	872.90	235.01	4,700.24	2,434.05	92.33	235.01	738.61	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	822,541	3,357	159,472	872.90	235.01	4,700.24	2,434.05	92.33	235.01	738.61	0
POTVY9	Single-family	17,966	1,053	8,673	52.66	15.49	266.39	114.61	5.89	21.68	21.68	186
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	82,254	336	15,947	87.29	23.50	470.02	243.41	9.23	23.50	73.86	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	100,220	1,389	24,620	139.95	38.99	736.41	358.01	15.12	45.18	95.54	186
RUSSL1	Single-family	169,225	9,920	81,695	496.00	145.88	2,509.19	1,079.54	55.44	204.24	204.24	1,751
	Multi-family	3,777	270	2,338	11.15	2.34	43.17	17.99	1.80	7.91	6.83	396
	Commercial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Public	10,072	783	5,036	24.06	10.07	111.91	67.15	4.03	12.59	38.83	1,231
	Light Industrial	133,453	10,380	66,727	318.80	133.45	1,482.81	889.69	53.38	166.82	514.54	16,311
	Other Urban	27,908	1,993	17,276	82.39	17.28	318.94	132.89	13.29	58.47	50.50	2,924
	Open	182,134	743	35,312	193.29	52.04	1,040.77	538.97	20.44	52.04	163.55	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	526,748	24,104	208,473	1,126.13	361.24	5,508.79	2,727.42	148.45	502.29	979.18	22,634
SCHSE1	Single-family	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	99,880	408	19,364	106.00	28.54	570.74	295.56	11.21	28.54	89.69	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	102,198	544	20,484	112.79	30.54	605.12	310.35	11.97	31.33	92.49	24
SLEEP1	Single-family	25,789	1,512	12,450	75.59	22.23	382.39	164.52	8.45	31.13	31.13	267
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	60,711	248	11,771	64.43	17.35	346.92	179.66	6.81	17.35	54.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	86,501	1,760	24,221	140.02	39.58	729.32	344.17	15.26	48.47	85.64	267
STOKE1	Single-family	7,534	442	3,637	22.08	6.49	111.71	48.06	2.47	9.09	9.09	78
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	557,664	2,276	108,118	591.81	159.33	3,186.65	1,650.23	62.59	159.33	500.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	565,197	2,718	111,756	613.89	165.83	3,298.36	1,698.29	65.06	168.43	509.85	78
TRIUN1	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	214,448	875	41,577	227.58	61.27	1,225.42	634.59	24.07	61.27	192.57	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	221,113	1,266	44,794	247.11	67.02	1,324.24	677.11	26.25	69.31	200.61	69

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
TRIUN2	Single-family	248,041	14,540	119,744	727.02	213.83	3,677.86	1,582.33	81.25	299.36	299.36	2,566
	Multi-family	71,972	5,141	44,554	212.49	44.55	822.54	342.73	34.27	150.80	130.24	7,540
	Commercial	89,748	6,980	44,874	214.40	89.75	997.20	598.32	35.90	112.19	346.03	10,969
	Public	54,856	4,267	27,428	131.05	54.86	609.51	365.71	21.94	68.57	211.50	6,705
	Light Industrial	33,273	2,588	16,637	79.49	33.27	369.70	221.82	13.31	41.59	128.29	4,067
	Other Urban	11,121	794	6,884	32.83	6.88	127.10	52.96	5.30	23.30	20.12	1,165
	Open	149,820	612	29,047	158.99	42.81	856.11	443.35	16.82	42.81	134.53	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	658,833	34,922	289,168	1,556.26	485.95	7,460.03	3,607.21	208.79	738.61	1,270.07	33,012
TRIUN3	Single-family	27,238	1,597	13,149	79.84	23.48	403.88	173.76	8.92	32.87	32.87	282
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	6,835	532	3,417	16.33	6.83	75.94	45.56	2.73	8.54	26.35	835
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	176,259	719	34,173	187.05	50.36	1,007.19	521.58	19.78	50.36	158.27	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	210,332	2,848	50,739	283.21	80.68	1,487.01	740.91	31.44	91.78	217.50	1,117
TRIUN4	Single-family	11,011	645	5,316	32.27	9.49	163.27	70.24	3.61	13.29	13.29	114
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	71,483	292	13,859	75.86	20.42	408.47	211.53	8.02	20.42	64.19	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	82,494	937	19,175	108.13	29.92	571.74	281.77	11.63	33.71	77.48	114
TRIUN5	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	105,755	432	20,504	112.23	30.22	604.32	312.95	11.87	30.22	94.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	113,869	907	24,420	136.01	37.21	724.62	364.71	14.53	40.01	104.76	84
TRIUN6	Single-family	90,697	5,317	43,785	265.84	78.19	1,344.82	578.59	29.71	109.46	109.46	938
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	266,347	1,087	51,639	282.65	76.10	1,521.98	788.17	29.90	76.10	239.17	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	357,044	6,404	95,424	548.49	154.29	2,866.80	1,366.76	59.61	185.56	348.63	938
TRIUN7	Single-family	6,375	374	3,078	18.69	5.50	94.52	40.67	2.09	7.69	7.69	66
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	495,973	2,024	96,158	526.34	141.71	2,834.13	1,467.67	55.67	141.71	445.36	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	502,348	2,398	99,236	545.02	147.20	2,928.66	1,508.34	57.76	149.40	453.06	66
CRBCN1	Single-family	38,539	2,259	18,605	112.96	33.22	571.44	245.85	12.62	46.51	46.51	399
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	203,187	829	39,393	215.63	58.05	1,161.07	601.27	22.81	58.05	182.45	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	241,726	3,089	57,999	328.59	91.28	1,732.51	847.12	35.43	104.57	228.97	399

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
PIEDR1	Single-family	5,216	306	2,518	15.29	4.50	77.34	33.27	1.71	6.29	6.29	54
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	60,222	246	11,676	63.91	17.21	344.12	178.21	6.76	17.21	54.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	65,438	552	14,194	79.20	21.70	421.46	211.48	8.47	23.50	60.37	54
SMB114	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
SMB115	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
SMB121	Single-family	2,898	170	1,399	8.49	2.50	42.97	18.49	0.95	3.50	3.50	30
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,367	176	1,684	10.05	2.92	51.36	22.83	1.11	3.92	4.82	30
SMB122	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,118	76	939	5.48	1.56	28.38	13.19	0.60	1.96	3.16	12
SMB123	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,649	70	654	3.92	1.14	19.98	8.84	0.43	1.54	1.84	12
SMB124	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB101	Single-family	6,085	357	2,938	17.84	5.25	90.23	38.82	1.99	7.34	7.34	63
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,492	375	3,792	22.51	6.50	115.41	51.86	2.49	8.60	11.30	63
SMB102	Single-family	3,187	187	1,539	9.34	2.75	47.26	20.33	1.04	3.85	3.85	33
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,813	36	1,709	9.35	2.52	50.36	26.08	0.99	2.52	7.91	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,000	223	3,247	18.70	5.27	97.62	46.41	2.03	6.36	11.76	33
SMB103	Single-family	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60
SMB104	Single-family	10,432	612	5,036	30.58	8.99	154.68	66.55	3.42	12.59	12.59	108
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,432	612	5,036	30.58	8.99	154.68	66.55	3.42	12.59	12.59	108
SMB105	Single-family	17,676	1,036	8,533	51.81	15.24	262.09	112.76	5.79	21.33	21.33	183
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	19,634	1,044	8,913	53.89	15.80	273.28	118.56	6.01	21.89	23.09	183
SMB93	Single-family	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,733	352	3,367	20.10	5.84	102.72	45.66	2.23	7.83	9.63	60
SMB94	Single-family	9,273	544	4,476	27.18	7.99	137.49	59.15	3.04	11.19	11.19	96
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	54,836	224	10,631	58.19	15.67	313.35	162.27	6.16	15.67	49.24	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	64,109	767	15,108	85.37	23.66	450.84	221.42	9.19	26.86	60.43	96

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB95	Single-family	18,255	1,070	8,813	53.51	15.74	270.68	116.46	5.98	22.03	22.03	189
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	20,703	1,080	9,288	56.11	16.44	284.67	123.70	6.25	22.73	24.23	189
SMB96	Single-family	5,506	323	2,658	16.14	4.75	81.63	35.12	1.80	6.64	6.64	57
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	11,751	48	2,278	12.47	3.36	67.15	34.77	1.32	3.36	10.55	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,256	371	4,936	28.61	8.10	148.78	69.89	3.12	10.00	17.20	57
LFLCN1	Single-family	23,181	1,359	11,191	67.95	19.98	343.72	147.88	7.59	27.98	27.98	240
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	8,633	671	4,317	20.62	8.63	95.92	57.55	3.45	10.79	33.29	1,055
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	205,146	837	39,773	217.71	58.61	1,172.26	607.06	23.03	58.61	184.21	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	236,960	2,868	55,281	306.27	87.23	1,611.91	812.50	34.07	97.38	245.48	1,295
LFLCN2	Single-family	50,130	2,939	24,201	146.93	43.22	743.30	319.79	16.42	60.50	60.50	519
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	82,744	338	16,042	87.81	23.64	472.82	244.85	9.29	23.64	74.30	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	132,874	3,276	40,243	234.74	66.86	1,216.13	564.65	25.71	84.14	134.80	519
LTLFL1	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	128,277	524	24,870	136.13	36.65	733.01	379.60	14.40	36.65	115.19	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	136,391	999	28,787	159.91	43.65	853.32	431.35	17.06	46.44	124.98	84
SMB106	Single-family	17,386	1,019	8,393	50.96	14.99	257.79	110.91	5.70	20.98	20.98	180
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,386	1,019	8,393	50.96	14.99	257.79	110.91	5.70	20.98	20.98	180
SMB107	Single-family	13,619	798	6,575	39.92	11.74	201.94	86.88	4.46	16.44	16.44	141
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	16,647	68	3,227	17.67	4.76	95.12	49.26	1.87	4.76	14.95	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	30,266	866	9,802	57.58	16.50	297.06	136.14	6.33	21.19	31.38	141

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB108	Single-family	7,824	459	3,777	22.93	6.74	116.01	49.91	2.56	9.44	9.44	81
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,782	467	4,157	25.01	7.30	127.20	55.71	2.78	10.00	11.20	81
SMB109	Single-family	7,244	425	3,497	21.23	6.25	107.41	46.21	2.37	8.74	8.74	75
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	11,651	443	4,352	25.91	7.50	132.59	59.25	2.87	10.00	12.70	75
SMB110	Single-family	4,636	272	2,238	13.59	4.00	68.74	29.58	1.52	5.60	5.60	48
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,595	280	2,618	15.67	4.56	79.94	35.37	1.74	6.16	7.35	48
SMB111	Single-family	16,227	951	7,834	47.56	13.99	240.61	103.52	5.32	19.58	19.58	168
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	19,165	963	8,403	50.68	14.83	257.39	112.21	5.65	20.42	22.22	168
SMB112	Single-family	13,040	764	6,295	38.22	11.24	193.35	83.18	4.27	15.74	15.74	135
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,446	782	7,149	42.90	12.50	218.53	96.22	4.77	17.00	19.69	135
SMB113	Single-family	8,403	493	4,057	24.63	7.24	124.60	53.61	2.75	10.14	10.14	87
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,851	503	4,531	27.23	7.94	138.59	60.85	3.03	10.84	12.34	87
PENA1	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	69,524	284	13,479	73.78	19.86	397.28	205.74	7.80	19.86	62.43	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	70,104	318	13,759	75.48	20.36	405.88	209.43	7.99	20.56	63.13	6

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB125	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
SMB126	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
SMB127	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,538	42	659	3.78	1.06	19.78	9.49	0.41	1.26	2.46	6
SMB128	Single-family	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,277	144	1,499	8.87	2.56	45.56	20.58	0.98	3.36	4.56	24
TUNA1	Single-family	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	142,966	584	27,718	151.72	40.85	816.95	423.06	16.05	40.85	128.38	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	151,948	1,110	32,054	178.05	48.59	950.14	480.37	18.99	51.69	139.22	93
BROOK1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	24,970	102	4,841	26.50	7.13	142.69	73.89	2.80	7.13	22.42	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	24,970	102	4,841	26.50	7.13	142.69	73.89	2.80	7.13	22.42	0
DEX1	Single-family	51,868	3,041	25,040	152.03	44.71	769.08	330.89	16.99	62.60	62.60	537
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	30,356	124	5,885	32.21	8.67	173.46	89.83	3.41	8.67	27.26	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	82,224	3,164	30,925	184.24	53.39	942.55	420.71	20.40	71.27	89.86	537

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
GARAP1	Single-family	18,545	1,087	8,953	54.36	15.99	274.98	118.31	6.08	22.38	22.38	192
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	229,137	935	44,424	243.17	65.47	1,309.35	678.06	25.72	65.47	205.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	247,682	2,022	53,377	297.52	81.45	1,584.33	796.36	31.79	87.85	228.14	192
GRNLF	Single-family	3,767	221	1,819	11.04	3.25	55.86	24.03	1.23	4.55	4.55	39
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	115,547	472	22,402	122.62	33.01	660.27	341.93	12.97	33.01	103.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	119,314	692	24,221	133.66	36.26	716.13	365.96	14.20	37.56	108.30	39
HONDO1	Single-family	7,534	442	3,637	22.08	6.49	111.71	48.06	2.47	9.09	9.09	78
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	91,067	372	17,656	96.64	26.02	520.38	269.48	10.22	26.02	81.77	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	98,601	813	21,293	118.72	32.51	632.09	317.55	12.69	35.11	90.87	78
OTPNG1	Single-family	58,823	3,448	28,397	172.41	50.71	872.20	375.25	19.27	70.99	70.99	609
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	198,291	809	38,444	210.43	56.65	1,133.09	586.78	22.26	56.65	178.06	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	257,114	4,258	66,841	382.84	107.36	2,005.29	962.03	41.53	127.65	249.05	609
OTPNG2	Single-family	13,329	781	6,435	39.07	11.49	197.64	85.03	4.37	16.09	16.09	138
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	165,977	677	32,179	176.14	47.42	948.44	491.16	18.63	47.42	149.04	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	179,306	1,459	38,614	215.21	58.91	1,146.08	576.19	23.00	63.51	165.13	138
OTPNG3	Single-family	35,641	2,089	17,206	104.47	30.73	528.48	227.37	11.68	43.02	43.02	369
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	73,441	300	14,239	77.94	20.98	419.66	217.33	8.24	20.98	65.95	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	109,083	2,389	31,445	182.40	51.71	948.14	444.69	19.92	64.00	108.96	369
RDRCK1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	110,162	450	21,358	116.91	31.47	629.50	325.99	12.37	31.47	98.92	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	110,162	450	21,358	116.91	31.47	629.50	325.99	12.37	31.47	98.92	0

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB129	Single-family	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,416	291	2,473	14.96	4.39	75.84	32.87	1.67	6.09	6.38	51
SNMRA1	Single-family	290	17	140	0.85	0.25	4.30	1.85	0.09	0.35	0.35	3
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	116,037	474	22,497	123.14	33.15	663.07	343.38	13.02	33.15	104.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	116,327	491	22,637	123.99	33.40	667.37	345.22	13.12	33.50	104.55	3
TPNGA1	Single-family	93,016	5,453	44,904	272.63	80.19	1,379.20	593.37	30.47	112.26	112.26	962
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	242,356	989	46,987	257.19	69.24	1,384.89	717.18	27.20	69.24	217.63	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	335,371	6,442	91,891	529.83	149.43	2,764.09	1,310.55	57.67	181.50	329.89	962
TPNGA2	Single-family	28,107	1,648	13,569	82.38	24.23	416.77	179.31	9.21	33.92	33.92	291
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	23,501	96	4,556	24.94	6.71	134.29	69.54	2.64	6.71	21.10	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	51,609	1,744	18,125	107.32	30.95	551.06	248.85	11.85	40.64	55.03	291
TPNGA3	Single-family	127,788	7,491	61,691	374.55	110.16	1,894.78	815.20	41.86	154.23	154.23	1,322
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	200,250	817	38,824	212.51	57.21	1,144.28	592.58	22.48	57.21	179.82	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	328,037	8,308	100,515	587.06	167.38	3,039.07	1,407.77	64.34	211.44	334.04	1,322
TPNGA4	Single-family	46,073	2,701	22,242	135.04	39.72	683.15	293.91	15.09	55.61	55.61	477
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	51,948	2,725	23,381	141.28	41.40	716.73	311.30	15.75	57.28	60.88	477
TPNGA5	Single-family	84,612	4,960	40,847	248.00	72.94	1,254.60	539.77	27.72	102.12	102.12	875
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	138,069	564	26,769	146.52	39.45	788.97	408.57	15.50	39.45	123.98	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	222,682	5,524	67,616	394.52	112.39	2,043.56	948.34	43.22	141.57	226.10	875

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
TPNGA6	Single-family	31,874	1,869	15,388	93.43	27.48	472.62	203.34	10.44	38.47	38.47	330
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	313,349	1,279	60,751	332.53	89.53	1,790.57	927.26	35.17	89.53	281.37	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	345,224	3,147	76,139	425.96	117.01	2,263.19	1,130.59	45.61	128.00	319.84	330
TPNGA7	Single-family	17,386	1,019	8,393	50.96	14.99	257.79	110.91	5.70	20.98	20.98	180
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	27,908	114	5,411	29.62	7.97	159.47	82.58	3.13	7.97	25.06	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	45,294	1,133	13,804	80.58	22.96	417.27	193.50	8.83	28.96	46.04	180
PARKR1	Single-family	53,317	3,125	25,739	156.27	45.96	790.57	340.13	17.47	64.35	64.35	552
	Multi-family	4,616	330	2,858	13.63	2.86	52.76	21.98	2.20	9.67	8.35	484
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	8,633	671	4,317	20.62	8.63	95.92	57.55	3.45	10.79	33.29	1,055
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	25,949	106	5,031	27.54	7.41	148.28	76.79	2.91	7.41	23.30	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	92,516	4,233	37,945	218.07	64.87	1,087.53	496.45	26.03	92.23	129.29	2,090
QUARY1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	101,838	416	19,744	108.07	29.10	581.93	301.36	11.43	29.10	91.45	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	101,838	416	19,744	108.07	29.10	581.93	301.36	11.43	29.10	91.45	0
SMB130	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,007	48	944	5.34	1.48	28.18	13.84	0.57	1.68	3.78	6
SMB131	Single-family	16,517	968	7,974	48.41	14.24	244.90	105.37	5.41	19.93	19.93	171
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,006	970	8,069	48.93	14.38	247.70	106.81	5.47	20.07	20.37	171
SMB132	Single-family	6,954	408	3,357	20.38	6.00	103.12	44.36	2.28	8.39	8.39	72
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,954	408	3,357	20.38	6.00	103.12	44.36	2.28	8.39	8.39	72

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SYNEZ1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	250,190	1,021	48,506	265.51	71.48	1,429.66	740.36	28.08	71.48	224.66	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	250,190	1,021	48,506	265.51	71.48	1,429.66	740.36	28.08	71.48	224.66	0
SYNEZ2	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	839	60	520	2.48	0.52	9.59	4.00	0.40	1.76	1.52	88
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	12,730	52	2,468	13.51	3.64	72.74	37.67	1.43	3.64	11.43	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	13,569	112	2,988	15.99	4.16	82.33	41.67	1.83	5.40	12.95	88
SYNEZ3	Single-family	145,464	8,527	70,224	426.36	125.40	2,156.87	927.96	47.65	175.56	175.56	1,505
	Multi-family	15,318	1,094	9,482	45.22	9.48	175.06	72.94	7.29	32.09	27.72	1,605
	Commercial	6,295	490	3,147	15.04	6.29	69.94	41.97	2.52	7.87	24.27	769
	Public	10,432	811	5,216	24.92	10.43	115.91	69.54	4.17	13.04	40.22	1,275
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	65,677	4,691	40,657	193.90	40.66	750.60	312.75	31.27	137.61	118.84	6,880
	Open	255,086	1,041	49,455	270.70	72.88	1,457.63	754.85	28.63	72.88	229.06	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	498,271	16,655	178,182	976.15	265.15	4,726.02	2,180.00	121.54	439.05	615.67	12,034
TRLER1	Single-family	13,909	815	6,715	40.77	11.99	206.23	88.73	4.56	16.79	16.79	144
	Multi-family	4,197	300	2,598	12.39	2.60	47.96	19.98	2.00	8.79	7.59	440
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	839	60	520	2.48	0.52	9.59	4.00	0.40	1.76	1.52	88
	Open	58,263	238	11,296	61.83	16.65	332.93	172.41	6.54	16.65	52.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	77,208	1,413	21,128	117.47	31.75	596.72	285.12	13.49	43.98	78.22	671
PULGA1	Single-family	222,252	13,029	107,294	651.43	191.60	3,295.46	1,417.81	72.81	268.24	268.24	2,299
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	8,393	600	5,196	24.78	5.20	95.92	39.97	4.00	17.59	15.19	879
	Open	56,795	232	11,011	60.27	16.23	324.54	168.07	6.37	16.23	51.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	287,440	13,860	123,501	736.48	213.02	3,715.92	1,625.85	83.18	302.05	334.42	3,178
SMB133	Single-family	37,670	2,208	18,185	110.41	32.47	558.55	240.31	12.34	45.46	45.46	390
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	1,799	140	899	4.30	1.80	19.98	11.99	0.72	2.25	6.93	220
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,365	26	1,234	6.75	1.82	36.37	18.83	0.71	1.82	5.72	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	45,833	2,374	20,319	121.46	36.09	614.91	271.13	13.77	49.53	58.11	610
SMB134	Single-family	11,591	679	5,596	33.97	9.99	171.86	73.94	3.80	13.99	13.99	120
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	14,528	691	6,165	37.09	10.83	188.65	82.63	4.13	14.83	16.63	120

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB135	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
TEMES1	Single-family	58,823	3,448	28,397	172.41	50.71	872.20	375.25	19.27	70.99	70.99	609
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	1,978	154	989	4.73	1.98	21.98	13.19	0.79	2.47	7.63	242
	Public	11,511	895	5,755	27.50	11.51	127.90	76.74	4.60	14.39	44.38	1,407
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	2,938	210	1,819	8.67	1.82	33.57	13.99	1.40	6.16	5.32	308
	Open	216,407	883	41,956	229.66	61.83	1,236.61	640.39	24.29	61.83	194.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	291,656	5,591	78,917	442.97	127.85	2,292.26	1,119.55	50.35	155.84	322.64	2,565
MNDLV1	Single-family	206,894	12,128	99,880	606.41	178.36	3,067.74	1,319.84	67.78	249.70	249.70	2,140
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	3,777	270	2,338	11.15	2.34	43.17	17.99	1.80	7.91	6.83	396
	Open	335,381	1,369	65,023	355.92	95.82	1,916.47	992.46	37.64	95.82	301.16	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	546,053	13,767	167,241	973.48	276.52	5,027.37	2,330.28	107.22	353.44	557.69	2,536
RIVAS1	Single-family	34,772	2,038	16,787	101.92	29.98	515.59	221.82	11.39	41.97	41.97	360
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	19,724	1,409	12,210	58.23	12.21	225.42	93.92	9.39	41.33	35.69	2,066
	Open	87,640	358	16,991	93.01	25.04	500.80	259.34	9.84	25.04	78.70	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	142,136	3,805	45,988	253.16	67.23	1,241.81	575.09	30.62	108.33	156.35	2,426
RUSTC1	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	288,379	1,177	55,910	306.03	82.39	1,647.88	853.37	32.37	82.39	258.95	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	288,379	1,177	55,910	306.03	82.39	1,647.88	853.37	32.37	82.39	258.95	0
RUSTC2	Single-family	68,385	4,009	33,014	200.44	58.95	1,013.99	436.25	22.40	82.53	82.53	707
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	360,841	1,473	69,959	382.93	103.10	2,061.95	1,067.80	40.50	103.10	324.02	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	429,226	5,482	102,973	583.37	162.05	3,075.94	1,504.05	62.90	185.63	406.55	707
RUSTC3	Single-family	111,850	6,557	53,997	327.84	96.42	1,658.47	713.53	36.64	134.99	134.99	1,157
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	3,957	308	1,978	9.45	3.96	43.96	26.38	1.58	4.95	15.26	484
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	115,807	6,865	55,975	337.29	100.38	1,702.44	739.91	38.22	139.94	150.25	1,641

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SLLVN4	Single-family	73,601	4,315	35,532	215.73	63.45	1,091.33	469.52	24.11	88.83	88.83	761
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	297,682	1,215	57,714	315.91	85.05	1,701.04	880.89	33.41	85.05	267.31	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	371,283	5,530	93,245	531.63	148.50	2,792.36	1,350.42	57.52	173.88	356.13	761
SMB136	Single-family	13,619	798	6,575	39.92	11.74	201.94	86.88	4.46	16.44	16.44	141
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,536	814	7,334	44.07	12.86	224.32	98.47	4.90	17.56	19.95	141
SMB137	Single-family	1,449	85	699	4.25	1.25	21.48	9.24	0.47	1.75	1.75	15
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,525	119	1,739	9.87	2.83	51.46	24.93	1.10	3.37	6.84	37
SMB138	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,484	252	2,623	15.53	4.48	79.74	36.02	1.71	5.88	7.97	42
SMB142	Single-family	73,311	4,298	35,392	214.88	63.20	1,087.03	467.68	24.02	88.48	88.48	758
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	5,755	448	2,878	13.75	5.76	63.95	38.37	2.30	7.19	22.19	703
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,303	38	1,804	9.87	2.66	53.16	27.53	1.04	2.66	8.35	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	88,369	4,783	40,073	238.50	71.61	1,204.14	533.57	27.36	98.33	119.02	1,462
SNMON1	Single-family	297,012	17,411	143,385	870.55	256.05	4,403.97	1,894.73	97.30	358.46	358.46	3,073
	Multi-family	12,590	899	7,794	37.17	7.79	143.88	59.95	6.00	26.38	22.78	1,319
	Commercial	11,691	909	5,845	27.93	11.69	129.90	77.94	4.68	14.61	45.07	1,429
	Public	11,331	881	5,665	27.07	11.33	125.90	75.54	4.53	14.16	43.69	1,385
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	21,543	88	4,177	22.86	6.16	123.10	63.75	2.42	6.16	19.34	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	354,166	20,189	166,866	985.58	293.02	4,926.76	2,171.91	114.92	419.77	489.35	7,205
SNMON2	Single-family	29,846	1,750	14,408	87.48	25.73	442.55	190.40	9.78	36.02	36.02	309
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	34,063	2,005	16,217	96.25	29.25	484.11	214.88	11.18	40.35	49.38	704

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI248	Single-family	182,264	10,684	87,990	534.22	157.12	2,702.54	1,162.72	59.71	219.97	219.97	1,885
	Multi-family	19,724	1,409	12,210	58.23	12.21	225.42	93.92	9.39	41.33	35.69	2,066
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	203,947	12,101	100,579	594.53	169.89	2,939.15	1,262.44	69.32	261.86	257.42	3,952
BI249C	Single-family	3,187	187	1,539	9.34	2.75	47.26	20.33	1.04	3.85	3.85	33
	Multi-family	89,179	6,370	55,206	263.29	55.21	1,019.18	424.66	42.47	186.85	161.37	9,343
	Commercial	7,914	616	3,957	18.90	7.91	87.93	52.76	3.17	9.89	30.51	967
	Public	17,986	1,399	8,993	42.97	17.99	199.84	119.90	7.19	22.48	69.34	2,198
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	5,036	360	3,118	14.87	3.12	57.55	23.98	2.40	10.55	9.11	528
	Open	11,751	48	2,278	12.47	3.36	67.15	34.77	1.32	3.36	10.55	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	135,052	8,979	75,090	361.84	90.33	1,478.92	676.41	57.59	236.98	284.74	13,069
BI249D	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	27,158	2,112	13,579	64.88	27.16	301.76	181.06	10.86	33.95	104.71	3,319
	Public	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	28,317	2,130	13,859	66.35	27.62	309.35	185.15	11.05	34.45	106.28	3,341
BI46	Single-family	328,017	19,229	158,353	961.43	282.77	4,863.71	2,092.52	107.45	395.88	395.88	3,393
	Multi-family	86,241	6,160	53,387	254.62	53.39	985.61	410.67	41.07	180.70	156.06	9,035
	Commercial	5,396	420	2,698	12.89	5.40	59.95	35.97	2.16	6.74	20.80	659
	Public	24,281	1,888	12,140	58.00	24.28	269.78	161.87	9.71	30.35	93.62	2,968
	Light Industrial	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Other Urban	62,740	4,481	38,839	185.23	38.84	717.03	298.76	29.88	131.45	113.53	6,573
	Open	19,584	80	3,797	20.78	5.60	111.91	57.95	2.20	5.60	17.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	528,777	32,454	270,473	1,498.97	412.79	7,035.97	3,074.54	193.47	753.87	807.18	22,936
BI507A	Single-family	63,169	3,703	30,496	185.15	54.46	936.65	402.98	20.69	76.24	76.24	653
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	63,169	3,703	30,496	185.15	54.46	936.65	402.98	20.69	76.24	76.24	653
BI507G	Single-family	26,948	1,580	13,010	78.99	23.23	399.58	171.91	8.83	32.52	32.52	279
	Multi-family	6,505	465	4,027	19.20	4.03	74.34	30.98	3.10	13.63	11.77	681
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,417	266	1,709	8.16	3.42	37.97	22.78	1.37	4.27	13.18	418
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	36,870	2,310	18,745	106.35	30.68	511.89	225.67	13.29	50.42	57.47	1,378
BI577	Single-family	9,273	544	4,476	27.18	7.99	137.49	59.15	3.04	11.19	11.19	96
	Multi-family	157,584	11,256	97,552	465.25	97.55	1,800.96	750.40	75.04	330.18	285.15	16,509
	Commercial	37,770	2,938	18,885	90.23	37.77	419.66	251.80	15.11	47.21	145.62	4,616
	Public	4,856	378	2,428	11.60	4.86	53.96	32.37	1.94	6.07	18.72	594
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	211,441	15,123	123,721	596.33	148.73	2,423.26	1,099.52	95.35	395.21	462.45	21,815

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI736	Single-family	10,721	628	5,176	31.42	9.24	158.97	68.40	3.51	12.94	12.94	111
	Multi-family	42,596	3,043	26,369	125.76	26.37	486.81	202.84	20.28	89.25	77.08	4,462
	Commercial	1,799	140	899	4.30	1.80	19.98	11.99	0.72	2.25	6.93	220
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	56,275	3,829	32,724	162.95	37.87	673.36	287.32	24.70	104.94	98.53	4,815
BUNDY1	Single-family	33,903	1,987	16,367	99.37	29.23	502.70	216.28	11.11	40.92	40.92	351
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	5,246	375	3,247	15.49	3.25	59.95	24.98	2.50	10.99	9.49	550
	Open	72,462	296	14,049	76.90	20.70	414.07	214.43	8.13	20.70	65.07	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	114,848	2,910	35,282	199.49	56.41	1,012.69	477.27	23.03	76.66	127.96	1,296
BUNDY2	Single-family	25,789	1,512	12,450	75.59	22.23	382.39	164.52	8.45	31.13	31.13	267
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	14,199	58	2,753	15.07	4.06	81.14	42.02	1.59	4.06	12.75	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	43,225	1,822	16,822	98.39	29.53	499.50	228.12	11.34	39.23	56.36	662
BUNDY3	Single-family	66,647	3,907	32,174	195.34	57.45	988.21	425.16	21.83	80.44	80.44	689
	Multi-family	8,813	629	5,456	26.02	5.46	100.72	41.97	4.20	18.47	15.95	923
	Commercial	540	42	270	1.29	0.54	6.00	3.60	0.22	0.67	2.08	66
	Public	5,396	420	2,698	12.89	5.40	59.95	35.97	2.16	6.74	20.80	659
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	81,395	4,998	40,597	235.54	68.84	1,154.88	506.69	28.40	106.32	119.27	2,338
KENTR1	Single-family	229,786	13,470	110,931	673.51	198.09	3,407.17	1,465.88	75.27	277.33	277.33	2,377
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	360	28	180	0.86	0.36	4.00	2.40	0.14	0.45	1.39	44
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	53,857	220	10,442	57.15	15.39	307.75	159.37	6.05	15.39	48.36	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	284,003	13,718	121,553	731.52	213.84	3,718.92	1,627.65	81.46	293.17	327.08	2,421
KENTR2	Single-family	48,391	2,837	23,361	141.84	41.72	717.53	308.70	15.85	58.40	58.40	501
	Multi-family	24,341	1,739	15,068	71.86	15.07	278.18	115.91	11.59	51.00	44.04	2,550
	Commercial	16,187	1,259	8,094	38.67	16.19	179.86	107.91	6.47	20.23	62.41	1,978
	Public	3,058	238	1,529	7.30	3.06	33.97	20.38	1.22	3.82	11.79	374
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	94,914	6,084	48,621	262.79	76.87	1,226.32	561.60	35.47	134.30	179.28	5,403
KENTR3	Single-family	146,623	8,595	70,783	429.76	126.40	2,174.06	935.35	48.03	176.96	176.96	1,517
	Multi-family	3,987	285	2,468	11.77	2.47	45.56	18.98	1.90	8.35	7.21	418
	Commercial	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	14,688	60	2,848	15.59	4.20	83.93	43.47	1.65	4.20	13.19	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	167,816	9,136	77,358	463.13	135.58	2,331.53	1,014.59	52.59	192.66	207.07	2,242

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
KENTR4	Single-family	119,095	6,981	57,494	349.07	102.67	1,765.89	759.74	39.01	143.73	143.73	1,232
	Multi-family	166,187	11,870	102,878	490.65	102.88	1,899.28	791.37	79.14	348.20	300.72	17,410
	Commercial	105,396	8,197	52,698	251.78	105.40	1,171.06	702.64	42.16	131.74	406.36	12,882
	Public	9,173	713	4,586	21.91	9.17	101.92	61.15	3.67	11.47	35.37	1,121
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	2,938	210	1,819	8.67	1.82	33.57	13.99	1.40	6.16	5.32	308
	Open	47,002	192	9,113	49.88	13.43	268.58	139.09	5.28	13.43	42.21	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	449,790	28,164	228,587	1,171.96	335.36	5,240.30	2,467.97	170.65	654.73	933.70	32,953
LA4798	Single-family	72,732	4,264	35,112	213.18	62.70	1,078.44	463.98	23.83	87.78	87.78	752
	Multi-family	11,121	794	6,884	32.83	6.88	127.10	52.96	5.30	23.30	20.12	1,165
	Commercial	4,496	350	2,248	10.74	4.50	49.96	29.98	1.80	5.62	17.34	550
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	93,565	5,813	46,852	269.21	79.30	1,313.45	581.68	33.01	123.22	145.35	3,105
SMB139	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,813	36	1,709	9.35	2.52	50.36	26.08	0.99	2.52	7.91	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,813	36	1,709	9.35	2.52	50.36	26.08	0.99	2.52	7.91	0
SMB140	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
SMB141	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	10,282	42	1,993	10.91	2.94	58.75	30.43	1.15	2.94	9.23	0
	Unknown	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Catchment Total	10,701	72	2,253	12.15	3.20	63.55	32.42	1.35	3.82	9.99	44
SMB143	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	20,773	1,484	12,860	61.33	12.86	237.41	98.92	9.89	43.53	37.59	2,176
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	360	28	180	0.86	0.36	4.00	2.40	0.14	0.45	1.39	44
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	22,002	1,563	13,459	64.74	13.97	254.30	106.86	10.32	45.02	40.03	2,229
BI11021	Single-family	279,916	16,409	135,132	820.44	241.31	4,150.48	1,785.67	91.70	337.83	337.83	2,896
	Multi-family	104,077	7,434	64,428	307.27	64.43	1,189.45	495.60	49.56	218.07	188.33	10,903
	Commercial	28,597	2,224	14,299	68.32	28.60	317.75	190.65	11.44	35.75	110.26	3,495
	Public	17,806	1,385	8,903	42.54	17.81	197.84	118.70	7.12	22.26	68.65	2,176
	Light Industrial	12,590	979	6,295	30.08	12.59	139.89	83.93	5.04	15.74	48.54	1,539
	Other Urban	7,554	540	4,676	22.30	4.68	86.33	35.97	3.60	15.83	13.67	791
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	450,539	28,971	233,733	1,290.95	369.40	6,081.73	2,710.53	168.45	645.46	767.28	21,801

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI11022	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	46,163	3,297	28,577	136.29	28.58	527.58	219.82	21.98	96.72	83.53	4,836
	Commercial	1,259	98	629	3.01	1.26	13.99	8.39	0.50	1.57	4.85	154
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	2,878	224	1,439	6.87	2.88	31.97	19.18	1.15	3.60	11.10	352
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	51,169	3,670	31,065	148.72	33.46	586.43	252.95	23.92	102.94	100.53	5,351
BI11023	Single-family	53,028	3,109	25,600	155.43	45.71	786.27	338.28	17.37	64.00	64.00	549
	Multi-family	169,125	12,080	104,696	499.32	104.70	1,932.85	805.36	80.54	354.36	306.03	17,718
	Commercial	34,712	2,700	17,356	82.92	34.71	385.69	231.41	13.88	43.39	133.83	4,243
	Public	25,180	1,958	12,590	60.15	25.18	279.78	167.87	10.07	31.47	97.08	3,078
	Light Industrial	1,439	112	719	3.44	1.44	15.99	9.59	0.58	1.80	5.55	176
	Other Urban	9,862	704	6,105	29.12	6.11	112.71	46.96	4.70	20.66	17.85	1,033
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	295,793	20,673	167,541	832.97	218.55	3,527.28	1,606.71	127.41	516.38	626.54	26,796
BI273	Single-family	326,279	19,127	157,514	956.33	281.27	4,837.93	2,081.43	106.88	393.78	393.78	3,375
	Multi-family	111,421	7,959	68,975	328.96	68.97	1,273.38	530.58	53.06	233.45	201.62	11,673
	Commercial	37,770	2,938	18,885	90.23	37.77	419.66	251.80	15.11	47.21	145.62	4,616
	Public	27,518	2,140	13,759	65.74	27.52	305.76	183.45	11.01	34.40	106.10	3,363
	Light Industrial	42,446	3,301	21,223	101.40	42.45	471.62	282.97	16.98	53.06	163.65	5,188
	Other Urban	60,851	4,347	37,670	179.66	37.67	695.44	289.77	28.98	127.50	110.11	6,375
	Open	16,647	68	3,227	17.67	4.76	95.12	49.26	1.87	4.76	14.95	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	622,931	39,879	321,253	1,739.98	500.41	8,098.92	3,669.26	233.88	894.16	1,135.84	34,590
BI2901	Single-family	52,738	3,092	25,460	154.58	45.46	781.97	336.43	17.28	63.65	63.65	546
	Multi-family	3,567	255	2,208	10.53	2.21	40.77	16.99	1.70	7.47	6.45	374
	Commercial	8,813	685	4,406	21.05	8.81	97.92	58.75	3.53	11.02	33.98	1,077
	Public	3,957	308	1,978	9.45	3.96	43.96	26.38	1.58	4.95	15.26	484
	Light Industrial	15,827	1,231	7,914	37.81	15.83	175.86	105.52	6.33	19.78	61.02	1,934
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	85,881	5,575	42,156	234.46	76.55	1,146.08	546.96	30.52	107.15	181.24	4,414
BI2950	Single-family	7,824	459	3,777	22.93	6.74	116.01	49.91	2.56	9.44	9.44	81
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,824	459	3,777	22.93	6.74	116.01	49.91	2.56	9.44	9.44	81
BI411	Single-family	90,987	5,334	43,925	266.69	78.44	1,349.12	580.44	29.81	109.81	109.81	941
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	21,053	86	4,082	22.34	6.02	120.30	62.30	2.36	6.02	18.90	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	112,040	5,420	48,007	289.03	84.45	1,469.42	642.74	32.17	115.83	128.72	941
BI4241	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	3,777	294	1,888	9.02	3.78	41.97	25.18	1.51	4.72	14.56	462
	Other Urban	26,229	1,874	16,237	77.44	16.24	299.76	124.90	12.49	54.96	47.46	2,748
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	31,475	2,173	18,410	88.02	20.43	350.12	154.43	14.17	60.10	63.34	3,209

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI4242	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	2,308	165	1,429	6.81	1.43	26.38	10.99	1.10	4.84	4.18	242
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	12,230	951	6,115	29.22	12.23	135.89	81.53	4.89	15.29	47.15	1,495
	Other Urban	22,662	1,619	14,029	66.91	14.03	258.99	107.91	10.79	47.48	41.01	2,374
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	37,200	2,735	21,573	102.94	27.69	421.26	200.44	16.78	67.61	92.34	4,111
BI4243	Single-family	10,142	595	4,896	29.73	8.74	150.38	64.70	3.32	12.24	12.24	105
	Multi-family	23,921	1,709	14,808	70.62	14.81	273.38	113.91	11.39	50.12	43.29	2,506
	Commercial	1,799	140	899	4.30	1.80	19.98	11.99	0.72	2.25	6.93	220
	Public	27,338	2,126	13,669	65.31	27.34	303.76	182.25	10.94	34.17	105.40	3,341
	Light Industrial	7,734	602	3,867	18.48	7.73	85.93	51.56	3.09	9.67	29.82	945
	Other Urban	22,242	1,589	13,769	65.67	13.77	254.20	105.92	10.59	46.60	40.25	2,330
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	95,623	6,770	52,383	256.69	74.89	1,101.62	537.57	40.33	155.75	240.13	9,447
BI425	Single-family	26,659	1,563	12,870	78.14	22.98	395.28	170.06	8.73	32.17	32.17	276
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Public	360	28	180	0.86	0.36	4.00	2.40	0.14	0.45	1.39	44
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	22,032	1,574	13,639	65.05	13.64	251.80	104.92	10.49	46.16	39.87	2,308
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	57,694	3,584	29,961	160.14	43.18	728.62	322.29	21.84	86.29	96.62	3,265
BI485	Single-family	218,485	12,808	105,476	640.39	188.35	3,239.61	1,393.78	71.57	263.69	263.69	2,260
	Multi-family	17,206	1,229	10,651	50.80	10.65	196.64	81.93	8.19	36.05	31.14	1,803
	Commercial	21,043	1,637	10,522	50.27	21.04	233.81	140.29	8.42	26.30	81.13	2,572
	Public	35,432	2,756	17,716	84.64	35.43	393.68	236.21	14.17	44.29	136.61	4,331
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	292,166	18,429	144,364	826.10	255.48	4,063.75	1,852.22	102.36	370.33	512.57	10,965
BI487	Single-family	123,441	7,236	59,592	361.81	106.41	1,830.33	787.47	40.44	148.98	148.98	1,277
	Multi-family	4,197	300	2,598	12.39	2.60	47.96	19.98	2.00	8.79	7.59	440
	Commercial	23,921	1,861	11,960	57.14	23.92	265.79	159.47	9.57	29.90	92.23	2,924
	Public	1,079	84	540	2.58	1.08	11.99	7.19	0.43	1.35	4.16	132
	Light Industrial	6,115	476	3,058	14.61	6.12	67.95	40.77	2.45	7.64	23.58	747
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	158,753	9,956	77,748	448.53	140.13	2,224.02	1,014.89	54.88	196.67	276.54	5,520
BI4881	Single-family	114,458	6,710	55,256	335.48	98.67	1,697.14	730.17	37.49	138.14	138.14	1,184
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Public	11,511	895	5,755	27.50	11.51	127.90	76.74	4.60	14.39	44.38	1,407
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	126,149	7,619	61,101	363.41	110.36	1,827.04	808.10	42.17	152.75	183.21	2,613
BI4882	Single-family	55,346	3,244	26,719	162.22	47.71	820.64	353.07	18.13	66.80	66.80	573
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	7,554	588	3,777	18.05	7.55	83.93	50.36	3.02	9.44	29.12	923
	Public	719	56	360	1.72	0.72	7.99	4.80	0.29	0.90	2.77	88
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	63,619	3,888	30,855	181.98	55.99	912.57	408.22	21.44	77.14	98.69	1,584

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI4883	Single-family	629,376	36,894	303,837	1,844.72	542.57	9,332.13	4,014.99	206.17	759.59	759.59	6,511
	Multi-family	25,809	1,844	15,977	76.20	15.98	294.96	122.90	12.29	54.08	46.70	2,704
	Commercial	14,568	1,133	7,284	34.80	14.57	161.87	97.12	5.83	18.21	56.17	1,781
	Public	24,820	1,930	12,410	59.29	24.82	275.78	165.47	9.93	31.03	95.70	3,034
	Light Industrial	44,964	3,497	22,482	107.41	44.96	499.60	299.76	17.99	56.21	173.36	5,496
	Other Urban	12,170	869	7,534	35.93	7.53	139.09	57.95	5.80	25.50	22.02	1,275
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	759,052	46,198	370,948	2,166.16	652.53	10,745.40	4,779.92	258.83	946.71	1,160.14	20,799
BI494	Single-family	92,726	5,436	44,764	271.78	79.94	1,374.90	591.53	30.38	111.91	111.91	959
	Multi-family	11,541	824	7,144	34.07	7.14	131.89	54.96	5.50	24.18	20.88	1,209
	Commercial	14,388	1,119	7,194	34.37	14.39	159.87	95.92	5.76	17.99	55.48	1,759
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	118,655	7,379	59,103	340.23	101.47	1,666.67	742.41	41.63	154.08	188.27	3,927
BI496	Single-family	13,329	781	6,435	39.07	11.49	197.64	85.03	4.37	16.09	16.09	138
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	71,483	292	13,859	75.86	20.42	408.47	211.53	8.02	20.42	64.19	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	84,812	1,073	20,294	114.93	31.91	606.11	296.56	12.39	36.51	80.28	138
BI4971	Single-family	242,826	14,235	117,226	711.73	209.33	3,600.52	1,549.06	79.55	293.07	293.07	2,512
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	76,379	312	14,808	81.06	21.82	436.45	226.02	8.57	21.82	68.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	319,384	14,560	132,124	793.21	231.33	4,038.97	1,776.28	88.19	315.11	362.34	2,534
BI4972	Single-family	518,395	30,389	250,260	1,519.43	446.89	7,686.55	3,307.00	169.82	625.65	625.65	5,363
	Multi-family	149,820	10,701	92,746	442.33	92.75	1,712.23	713.43	71.34	313.91	271.10	15,695
	Commercial	64,748	5,036	32,374	154.68	64.75	719.42	431.65	25.90	80.94	249.64	7,914
	Public	20,324	1,581	10,162	48.55	20.32	225.82	135.49	8.13	25.40	78.36	2,484
	Light Industrial	39,748	3,092	19,874	94.95	39.75	441.65	264.99	15.90	49.69	153.25	4,858
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	46,513	190	9,018	49.36	13.29	265.79	137.64	5.22	13.29	41.77	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	839,548	50,988	414,433	2,309.30	677.75	11,051.45	4,990.20	296.31	1,108.87	1,419.77	36,314
BI498	Single-family	40,568	2,378	19,584	118.90	34.97	601.52	258.79	13.29	48.96	48.96	420
	Multi-family	16,367	1,169	10,132	48.32	10.13	187.05	77.94	7.79	34.29	29.62	1,715
	Commercial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Public	17,986	1,399	8,993	42.97	17.99	199.84	119.90	7.19	22.48	69.34	2,198
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	1,469	105	909	4.34	0.91	16.79	6.99	0.70	3.08	2.66	154
	Open	20,564	84	3,987	21.82	5.88	117.51	60.85	2.31	5.88	18.47	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	97,132	5,149	43,695	236.78	70.05	1,124.70	525.68	31.36	114.91	169.74	4,508
BI503	Single-family	38,539	2,259	18,605	112.96	33.22	571.44	245.85	12.62	46.51	46.51	399
	Multi-family	14,898	1,064	9,223	43.98	9.22	170.26	70.94	7.09	31.22	26.96	1,561
	Commercial	1,799	140	899	4.30	1.80	19.98	11.99	0.72	2.25	6.93	220
	Public	1,619	126	809	3.87	1.62	17.99	10.79	0.65	2.02	6.24	198
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	56,854	3,589	29,536	165.11	45.86	779.68	339.58	21.09	82.00	86.65	2,377

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI504	Single-family	95,044	5,572	45,883	278.58	81.93	1,409.27	606.31	31.14	114.71	114.71	983
	Multi-family	28,327	2,023	17,536	83.63	17.54	323.74	134.89	13.49	59.35	51.26	2,968
	Commercial	7,014	546	3,507	16.76	7.01	77.94	46.76	2.81	8.77	27.04	857
	Public	1,079	84	540	2.58	1.08	11.99	7.19	0.43	1.35	4.16	132
	Light Industrial	899	70	450	2.15	0.90	9.99	6.00	0.36	1.12	3.47	110
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	132,364	8,294	67,916	383.69	108.46	1,832.93	801.16	48.22	185.30	200.64	5,050
BI505	Single-family	48,971	2,871	23,641	143.54	42.22	726.12	312.40	16.04	59.10	59.10	507
	Multi-family	2,518	180	1,559	7.43	1.56	28.78	11.99	1.20	5.28	4.56	264
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	5,036	392	2,518	12.03	5.04	55.96	33.57	2.01	6.29	19.42	616
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	57,014	3,444	27,813	163.52	48.95	813.65	359.41	19.31	70.81	83.52	1,386
BI51	Single-family	90,118	5,283	43,505	264.14	77.69	1,336.23	574.89	29.52	108.76	108.76	932
	Multi-family	29,167	2,083	18,056	86.11	18.06	333.33	138.89	13.89	61.11	52.78	3,056
	Commercial	14,568	1,133	7,284	34.80	14.57	161.87	97.12	5.83	18.21	56.17	1,781
	Public	10,791	839	5,396	25.78	10.79	119.90	71.94	4.32	13.49	41.61	1,319
	Light Industrial	2,158	168	1,079	5.16	2.16	23.98	14.39	0.86	2.70	8.32	264
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	148,201	9,540	75,769	418.27	123.80	1,985.71	902.13	54.73	205.43	269.28	7,395
BI52	Single-family	93,016	5,453	44,904	272.63	80.19	1,379.20	593.37	30.47	112.26	112.26	962
	Multi-family	91,906	6,565	56,894	271.34	56.89	1,050.36	437.65	43.76	192.57	166.31	9,628
	Commercial	24,101	1,874	12,050	57.57	24.10	267.79	160.67	9.64	30.13	92.92	2,946
	Public	1,439	112	719	3.44	1.44	15.99	9.59	0.58	1.80	5.55	176
	Light Industrial	20,683	1,609	10,342	49.41	20.68	229.82	137.89	8.27	25.85	79.75	2,528
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	233,593	15,622	125,385	656.99	184.00	2,957.13	1,346.42	93.00	363.30	458.98	16,240
BI52041	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	201,259	15,653	100,629	480.79	201.26	2,236.21	1,341.73	80.50	251.57	775.96	24,598
	Public	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Light Industrial	149,280	11,611	74,640	356.61	149.28	1,658.67	995.20	59.71	186.60	575.56	18,245
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	62,740	4,481	38,839	185.23	38.84	717.03	298.76	29.88	131.45	113.53	6,573
	Catchment Total	417,676	32,065	216,287	1,033.76	393.61	4,665.06	2,664.67	171.77	575.07	1,478.93	49,824
BI52042	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	11,870	923	5,935	28.36	11.87	131.89	79.14	4.75	14.84	45.77	1,451
	Public	35,971	2,798	17,986	85.93	35.97	399.68	239.81	14.39	44.96	138.69	4,396
	Light Industrial	121,942	9,484	60,971	291.31	121.94	1,354.92	812.95	48.78	152.43	470.16	14,904
	Other Urban	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	169,994	13,220	85,022	406.21	169.91	1,888.89	1,132.89	68.01	212.67	654.99	20,773
BI52043	Single-family	233,553	13,691	112,750	684.55	201.34	3,463.03	1,489.91	76.51	281.87	281.87	2,416
	Multi-family	351,678	25,120	217,706	1,038.29	217.71	4,019.18	1,674.66	167.47	736.85	636.37	36,843
	Commercial	237,949	18,507	118,975	568.43	237.95	2,643.88	1,586.33	95.18	297.44	917.43	29,083
	Public	103,957	8,086	51,978	248.34	103.96	1,155.08	693.05	41.58	129.95	400.81	12,706
	Light Industrial	84,352	6,561	42,176	201.51	84.35	937.25	562.35	33.74	105.44	325.23	10,310
	Other Urban	40,288	2,878	24,940	118.94	24.94	460.43	191.85	19.18	84.41	72.90	4,221
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,059,122	74,872	569,949	2,867.86	872.34	12,720.82	6,219.87	434.49	1,638.06	2,641.21	95,577

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI52044	Single-family	242,246	14,201	116,946	710.03	208.83	3,591.92	1,545.36	79.36	292.37	292.37	2,506
	Multi-family	50,570	3,612	31,305	149.30	31.30	577.94	240.81	24.08	105.96	91.51	5,298
	Commercial	35,432	2,756	17,716	84.64	35.43	393.68	236.21	14.17	44.29	136.61	4,331
	Public	5,935	462	2,968	14.18	5.94	65.95	39.57	2.37	7.42	22.88	725
	Light Industrial	13,309	1,035	6,655	31.79	13.31	147.88	88.73	5.32	16.64	51.31	1,627
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	347,492	22,065	175,589	989.95	294.81	4,777.38	2,150.68	125.31	466.67	594.68	14,486
BI5212	Single-family	36,221	2,123	17,486	106.17	31.23	537.07	231.07	11.87	43.72	43.72	375
	Multi-family	144,784	10,342	89,628	427.46	89.63	1,654.68	689.45	68.94	303.36	261.99	15,168
	Commercial	26,439	2,056	13,219	63.16	26.44	293.76	176.26	10.58	33.05	101.94	3,231
	Public	15,827	1,231	7,914	37.81	15.83	175.86	105.52	6.33	19.78	61.02	1,934
	Light Industrial	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	226,768	15,952	129,696	641.65	165.92	2,694.94	1,221.97	98.83	403.33	479.25	21,016
BI5213	Single-family	208,633	12,230	100,719	611.51	179.86	3,093.52	1,330.93	68.35	251.80	251.80	2,158
	Multi-family	45,324	3,237	28,058	133.81	28.06	517.99	215.83	21.58	94.96	82.01	4,748
	Commercial	1,799	140	899	4.30	1.80	19.98	11.99	0.72	2.25	6.93	220
	Public	2,338	182	1,169	5.59	2.34	25.98	15.59	0.94	2.92	9.01	286
	Light Industrial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Other Urban	1,679	120	1,039	4.96	1.04	19.18	7.99	0.80	3.52	3.04	176
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	269,394	16,333	135,347	777.30	219.56	3,759.79	1,630.14	94.96	363.23	376.87	8,225
BI5237	Single-family	96,493	5,656	46,583	282.82	83.18	1,430.75	615.56	31.61	116.46	116.46	998
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	35,252	144	6,835	37.41	10.07	201.44	104.32	3.96	10.07	31.65	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	131,745	5,800	53,417	320.23	93.26	1,632.19	719.87	35.57	126.53	148.11	998
BI5238	Single-family	96,493	5,656	46,583	282.82	83.18	1,430.75	615.56	31.61	116.46	116.46	998
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	99,920	5,670	47,247	286.46	84.16	1,450.34	625.70	31.99	117.44	119.53	998
BI5243	Single-family	112,430	6,591	54,277	329.54	96.92	1,667.07	717.23	36.83	135.69	135.69	1,163
	Multi-family	12,170	869	7,534	35.93	7.53	139.09	57.95	5.80	25.50	22.02	1,275
	Commercial	15,108	1,175	7,554	36.09	15.11	167.87	100.72	6.04	18.88	58.25	1,847
	Public	17,266	1,343	8,633	41.25	17.27	191.85	115.11	6.91	21.58	66.57	2,110
	Light Industrial	40,647	3,161	20,324	97.10	40.65	451.64	270.98	16.26	50.81	156.72	4,968
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	198,601	13,143	98,511	540.95	177.76	2,623.10	1,264.89	71.94	252.75	440.13	11,363
BI54	Single-family	215,298	12,621	103,937	631.04	185.60	3,192.34	1,373.45	70.53	259.84	259.84	2,227
	Multi-family	94,215	6,730	58,323	278.16	58.32	1,076.74	448.64	44.86	197.40	170.48	9,870
	Commercial	28,417	2,210	14,209	67.89	28.42	315.75	189.45	11.37	35.52	109.56	3,473
	Public	10,432	811	5,216	24.92	10.43	115.91	69.54	4.17	13.04	40.22	1,275
	Light Industrial	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Other Urban	8,603	615	5,326	25.40	5.33	98.32	40.97	4.10	18.03	15.57	901
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	362,160	23,246	189,009	1,037.22	291.90	4,846.22	2,149.43	136.54	528.44	609.92	18,142

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI547	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	17,416	1,244	10,781	51.42	10.78	199.04	82.93	8.29	36.49	31.51	1,825
	Commercial	14,928	1,161	7,464	35.66	14.93	165.87	99.52	5.97	18.66	57.56	1,825
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	17,806	1,385	8,903	42.54	17.81	197.84	118.70	7.12	22.26	68.65	2,176
	Other Urban	1,888	135	1,169	5.58	1.17	21.58	8.99	0.90	3.96	3.42	198
	Open	17,626	72	3,417	18.71	5.04	100.72	52.16	1.98	5.04	15.83	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	70,244	4,031	32,014	155.60	50.22	693.64	366.01	24.45	87.10	177.67	6,029
BI571	Single-family	93,885	5,504	45,324	275.18	80.94	1,392.09	598.92	30.76	113.31	113.31	971
	Multi-family	98,201	7,014	60,791	289.93	60.79	1,122.30	467.63	46.76	205.76	177.70	10,288
	Commercial	39,568	3,078	19,784	94.52	39.57	439.65	263.79	15.83	49.46	152.56	4,836
	Public	24,101	1,874	12,050	57.57	24.10	267.79	160.67	9.64	30.13	92.92	2,946
	Light Industrial	7,914	616	3,957	18.90	7.91	87.93	52.76	3.17	9.89	30.51	967
	Other Urban	10,492	749	6,495	30.98	6.49	119.90	49.96	5.00	21.98	18.98	1,099
	Open	60,711	248	11,771	64.43	17.35	346.92	179.66	6.81	17.35	54.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	334,872	19,083	160,172	831.51	237.15	3,776.58	1,773.38	117.96	447.87	640.50	21,107
BI5710	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	24,550	1,754	15,198	72.48	15.20	280.58	116.91	11.69	51.44	44.42	2,572
	Commercial	11,870	923	5,935	28.36	11.87	131.89	79.14	4.75	14.84	45.77	1,451
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	43,086	3,068	24,351	120.37	32.81	511.29	238.56	18.62	74.32	98.24	4,092
BI572	Single-family	113,299	6,642	54,696	332.08	97.67	1,679.95	722.77	37.12	136.74	136.74	1,172
	Multi-family	215,917	15,423	133,663	637.47	133.66	2,467.62	1,028.18	102.82	452.40	390.71	22,620
	Commercial	24,460	1,902	12,230	58.43	24.46	271.78	163.07	9.78	30.58	94.31	2,990
	Public	16,007	1,245	8,004	38.24	16.01	177.86	106.71	6.40	20.01	61.72	1,956
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	3,567	255	2,208	10.53	2.21	40.77	16.99	1.70	7.47	6.45	374
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	375,210	25,475	211,181	1,078.84	274.57	4,649.18	2,043.51	158.04	647.76	691.69	29,112
BI573	Single-family	36,511	2,140	17,626	107.01	31.47	541.37	232.91	11.96	44.06	44.06	378
	Multi-family	85,821	6,130	53,127	253.38	53.13	980.81	408.67	40.87	179.82	155.30	8,991
	Commercial	19,424	1,511	9,712	46.40	19.42	215.83	129.50	7.77	24.28	74.89	2,374
	Public	5,036	392	2,518	12.03	5.04	55.96	33.57	2.01	6.29	19.42	616
	Light Industrial	30,036	2,336	15,018	71.75	30.04	333.73	200.24	12.01	37.54	115.81	3,671
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,813	36	1,709	9.35	2.52	50.36	26.08	0.99	2.52	7.91	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	185,641	12,545	99,710	499.93	141.62	2,178.06	1,030.97	75.62	294.52	417.39	16,029
BI574	Single-family	179,656	10,532	86,731	526.58	154.88	2,663.87	1,146.08	58.85	216.83	216.83	1,859
	Multi-family	324,610	23,186	200,949	958.37	200.95	3,709.83	1,545.76	154.58	680.14	587.39	34,007
	Commercial	125,899	9,792	62,950	300.76	125.90	1,398.88	839.33	50.36	157.37	485.41	15,388
	Public	5,036	392	2,518	12.03	5.04	55.96	33.57	2.01	6.29	19.42	616
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	43,086	176	8,353	45.72	12.31	246.20	127.50	4.84	12.31	38.69	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	678,287	44,078	361,501	1,843.46	499.07	8,074.74	3,692.24	270.64	1,072.94	1,347.73	51,868
BI575	Single-family	152,128	8,918	73,441	445.89	131.15	2,255.69	970.47	49.84	183.60	183.60	1,574
	Multi-family	500,659	35,761	309,932	1,478.14	309.93	5,721.82	2,384.09	238.41	1,049.00	905.95	52,450
	Commercial	245,863	19,123	122,932	587.34	245.86	2,731.81	1,639.09	98.35	307.33	947.94	30,050
	Public	9,712	755	4,856	23.20	9.71	107.91	64.75	3.88	12.14	37.45	1,187
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	8,813	36	1,709	9.35	2.52	50.36	26.08	0.99	2.52	7.91	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	917,176	64,593	512,869	2,543.92	699.17	10,867.60	5,084.48	391.46	1,554.59	2,082.86	85,261

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI576	Single-family	171,832	10,073	82,954	503.65	148.13	2,547.86	1,096.17	56.29	207.38	207.38	1,778
	Multi-family	31,265	2,233	19,355	92.31	19.35	357.31	148.88	14.89	65.51	56.57	3,275
	Commercial	19,065	1,483	9,532	45.54	19.06	211.83	127.10	7.63	23.83	73.51	2,330
	Public	10,252	797	5,126	24.49	10.25	113.91	68.35	4.10	12.81	39.53	1,253
	Light Industrial	899	70	450	2.15	0.90	9.99	6.00	0.36	1.12	3.47	110
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	233,313	14,656	117,416	668.14	197.70	3,240.91	1,446.49	83.26	310.66	380.46	8,746
BI577	Single-family	188,349	11,041	90,927	552.06	162.37	2,792.76	1,201.54	61.70	227.32	227.32	1,948
	Multi-family	76,799	5,486	47,542	226.74	47.54	877.70	365.71	36.57	160.91	138.97	8,046
	Commercial	71,223	5,540	35,611	170.14	71.22	791.37	474.82	28.49	89.03	274.60	8,705
	Public	10,072	783	5,036	24.06	10.07	111.91	67.15	4.03	12.59	38.83	1,231
	Light Industrial	7,734	602	3,867	18.48	7.73	85.93	51.56	3.09	9.67	29.82	945
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	95,474	390	18,510	101.32	27.28	545.56	282.52	10.72	27.28	85.73	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	449,650	23,841	201,494	1,092.80	326.22	5,205.23	2,443.29	144.60	526.79	795.27	20,875
BI578	Single-family	130,685	7,661	63,089	383.04	112.66	1,937.75	833.68	42.81	157.72	157.72	1,352
	Multi-family	103,028	7,359	63,779	304.18	63.78	1,177.46	490.61	49.06	215.87	186.43	10,793
	Commercial	51,259	3,987	25,629	122.45	51.26	569.54	341.73	20.50	64.07	197.63	6,265
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	33,633	2,616	16,817	80.35	33.63	373.70	224.22	13.45	42.04	129.67	4,111
	Other Urban	30,216	2,158	18,705	89.21	18.71	345.32	143.88	14.39	63.31	54.68	3,165
	Open	94,494	386	18,320	100.28	27.00	539.97	279.63	10.61	27.00	84.85	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	443,315	24,167	206,340	1,079.51	307.03	4,943.74	2,313.75	150.82	570.01	810.99	25,686
BI579	Single-family	317,296	18,600	153,177	930.01	273.53	4,704.73	2,024.13	103.94	382.94	382.94	3,282
	Multi-family	61,271	4,376	37,930	180.90	37.93	700.24	291.77	29.18	128.38	110.87	6,419
	Commercial	58,453	4,546	29,227	139.64	58.45	649.48	389.69	23.38	73.07	225.37	7,144
	Public	5,396	420	2,698	12.89	5.40	59.95	35.97	2.16	6.74	20.80	659
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	11,751	48	2,278	12.47	3.36	67.15	34.77	1.32	3.36	10.55	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	454,166	27,991	225,310	1,275.90	378.67	6,181.55	2,776.33	159.98	594.49	750.54	17,505
BI648A	Single-family	30,426	1,784	14,688	89.18	26.23	451.14	194.09	9.97	36.72	36.72	315
	Multi-family	71,553	5,111	44,295	211.25	44.29	817.75	340.73	34.07	149.92	129.48	7,496
	Commercial	9,712	755	4,856	23.20	9.71	107.91	64.75	3.88	12.14	37.45	1,187
	Public	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Light Industrial	2,878	224	1,439	6.87	2.88	31.97	19.18	1.15	3.60	11.10	352
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	114,748	7,888	65,368	330.94	83.29	1,410.77	619.95	49.15	202.60	215.43	9,371
BI648C	Single-family	19,704	1,155	9,512	57.75	16.99	292.17	125.70	6.45	23.78	23.78	204
	Multi-family	1,049	75	649	3.10	0.65	11.99	5.00	0.50	2.20	1.90	110
	Commercial	8,273	643	4,137	19.76	8.27	91.93	55.16	3.31	10.34	31.90	1,011
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	13,849	1,077	6,924	33.08	13.85	153.88	92.33	5.54	17.31	53.40	1,693
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	42,876	2,951	21,223	113.70	39.76	549.96	278.18	15.80	53.63	110.97	3,018
BI677	Single-family	50,130	2,939	24,201	146.93	43.22	743.30	319.79	16.42	60.50	60.50	519
	Multi-family	11,541	824	7,144	34.07	7.14	131.89	54.96	5.50	24.18	20.88	1,209
	Commercial	5,396	420	2,698	12.89	5.40	59.95	35.97	2.16	6.74	20.80	659
	Public	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Light Industrial	7,554	588	3,777	18.05	7.55	83.93	50.36	3.02	9.44	29.12	923
	Other Urban	32,734	2,338	20,264	96.64	20.26	374.10	155.88	15.59	68.59	59.23	3,429
	Open	23,501	96	4,556	24.94	6.71	134.29	69.54	2.64	6.71	21.10	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	131,035	7,218	62,730	333.95	90.47	1,529.48	687.70	45.39	176.39	212.34	6,762

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI7	Single-family	57,084	3,346	27,558	167.32	49.21	846.42	364.16	18.70	68.89	68.89	591
	Multi-family	6,295	450	3,897	18.59	3.90	71.94	29.98	3.00	13.19	11.39	659
	Commercial	30,935	2,406	15,468	73.90	30.94	343.72	206.23	12.37	38.67	119.27	3,781
	Public	7,014	546	3,507	16.76	7.01	77.94	46.76	2.81	8.77	27.04	857
	Light Industrial	12,050	937	6,025	28.79	12.05	133.89	80.34	4.82	15.06	46.46	1,473
	Other Urban	1,469	105	909	4.34	0.91	16.79	6.99	0.70	3.08	2.66	154
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	117,296	7,800	57,839	312.28	104.72	1,504.70	741.71	42.67	148.36	277.92	7,515
BI70	Single-family	380,755	22,320	183,813	1,116.01	328.24	5,645.68	2,428.96	124.73	459.53	459.53	3,939
	Multi-family	30,216	2,158	18,705	89.21	18.71	345.32	143.88	14.39	63.31	54.68	3,165
	Commercial	77,878	6,057	38,939	186.04	77.88	865.31	519.18	31.15	97.35	300.26	9,518
	Public	7,914	616	3,957	18.90	7.91	87.93	52.76	3.17	9.89	30.51	967
	Light Industrial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Other Urban	1,049	75	649	3.10	0.65	11.99	5.00	0.50	2.20	1.90	110
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	497,991	31,240	246,153	1,413.69	433.56	6,958.23	3,150.98	174.01	632.50	847.57	17,722
BI71	Single-family	243,405	14,269	117,506	713.43	209.83	3,609.11	1,552.76	79.74	293.76	293.76	2,518
	Multi-family	20,773	1,484	12,860	61.33	12.86	237.41	98.92	9.89	43.53	37.59	2,176
	Commercial	17,626	1,371	8,813	42.11	17.63	195.84	117.51	7.05	22.03	67.96	2,154
	Public	8,094	629	4,047	19.33	8.09	89.93	53.96	3.24	10.12	31.21	989
	Light Industrial	8,813	685	4,406	21.05	8.81	97.92	58.75	3.53	11.02	33.98	1,077
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	300,110	18,472	148,081	859.53	257.76	4,240.60	1,886.79	103.75	381.61	466.13	8,959
BI81	Single-family	198,491	11,636	95,823	581.78	171.11	2,943.14	1,266.24	65.02	239.56	239.56	2,053
	Multi-family	2,098	150	1,299	6.20	1.30	23.98	9.99	1.00	4.40	3.80	220
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	21,583	1,679	10,791	51.56	21.58	239.81	143.88	8.63	26.98	83.21	2,638
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	222,172	13,464	107,914	639.54	193.99	3,206.93	1,420.11	74.66	270.93	326.57	4,911
BI84	Single-family	18,255	1,070	8,813	53.51	15.74	270.68	116.46	5.98	22.03	22.03	189
	Multi-family	12,590	899	7,794	37.17	7.79	143.88	59.95	6.00	26.38	22.78	1,319
	Commercial	3,597	280	1,799	8.59	3.60	39.97	23.98	1.44	4.50	13.87	440
	Public	7,554	588	3,777	18.05	7.55	83.93	50.36	3.02	9.44	29.12	923
	Light Industrial	8,094	629	4,047	19.33	8.09	89.93	53.96	3.24	10.12	31.21	989
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	54,496	3,484	27,083	141.33	44.03	653.58	317.75	20.17	73.73	122.97	3,860
BI86	Single-family	15,068	883	7,274	44.16	12.99	223.42	96.12	4.94	18.19	18.19	156
	Multi-family	839	60	520	2.48	0.52	9.59	4.00	0.40	1.76	1.52	88
	Commercial	899	70	450	2.15	0.90	9.99	6.00	0.36	1.12	3.47	110
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	18,275	1,019	8,528	50.35	14.83	251.40	110.46	5.86	21.49	24.49	354
BI9404	Single-family	17,966	1,053	8,673	52.66	15.49	266.39	114.61	5.89	21.68	21.68	186
	Multi-family	4,406	315	2,728	13.01	2.73	50.36	20.98	2.10	9.23	7.97	462
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	22,372	1,368	11,401	65.67	18.22	316.75	135.59	7.98	30.92	29.66	647

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BLLNA1	Single-family	18,545	1,087	8,953	54.36	15.99	274.98	118.31	6.08	22.38	22.38	192
	Multi-family	24,131	1,724	14,938	71.24	14.94	275.78	114.91	11.49	50.56	43.67	2,528
	Commercial	3,597	280	1,799	8.59	3.60	39.97	23.98	1.44	4.50	13.87	440
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	46,273	3,091	25,689	134.19	34.52	590.73	257.19	19.00	77.44	79.92	3,159
BLLNA10	Single-family	20,574	1,206	9,932	60.30	17.74	305.06	131.24	6.74	24.83	24.83	213
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	20,574	1,206	9,932	60.30	17.74	305.06	131.24	6.74	24.83	24.83	213
BLLNA11	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	5,935	462	2,968	14.18	5.94	65.95	39.57	2.37	7.42	22.88	725
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,935	462	2,968	14.18	5.94	65.95	39.57	2.37	7.42	22.88	725
BLLNA12	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	4,317	336	2,158	10.31	4.32	47.96	28.78	1.73	5.40	16.64	528
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,366	401	2,668	13.29	5.25	62.85	35.52	2.08	6.67	18.39	559
BLLNA13	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	16,906	1,315	8,453	40.39	16.91	187.85	112.71	6.76	21.13	65.18	2,066
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,906	1,379	8,993	43.33	17.67	201.24	118.41	7.15	22.71	66.64	2,116
BLLNA14	Single-family	5,216	306	2,518	15.29	4.50	77.34	33.27	1.71	6.29	6.29	54
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,216	306	2,518	15.29	4.50	77.34	33.27	1.71	6.29	6.29	54
BLLNA15	Single-family	33,903	1,987	16,367	99.37	29.23	502.70	216.28	11.11	40.92	40.92	351
	Multi-family	2,518	180	1,559	7.43	1.56	28.78	11.99	1.20	5.28	4.56	264
	Commercial	1,259	98	629	3.01	1.26	13.99	8.39	0.50	1.57	4.85	154
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	37,680	2,265	18,555	109.81	32.04	545.46	236.66	12.81	47.77	50.33	768

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BLLNA16	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	4,137	322	2,068	9.88	4.14	45.96	27.58	1.65	5.17	15.95	506
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,613	590	4,287	23.01	7.89	110.91	55.46	3.18	10.95	21.60	592
BLLNA17	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,448	10	475	2.60	0.70	13.99	7.24	0.27	0.70	2.20	0
BLLNA18	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	10,771	44	2,088	11.43	3.08	61.55	31.87	1.21	3.08	9.67	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,771	44	2,088	11.43	3.08	61.55	31.87	1.21	3.08	9.67	0
BLLNA19	Single-family	111,850	6,557	53,997	327.84	96.42	1,658.47	713.53	36.64	134.99	134.99	1,157
	Multi-family	8,603	615	5,326	25.40	5.33	98.32	40.97	4.10	18.03	15.57	901
	Commercial	12,950	1,007	6,475	30.94	12.95	143.88	86.33	5.18	16.19	49.93	1,583
	Public	28,957	2,252	14,478	69.17	28.96	321.74	193.05	11.58	36.20	111.64	3,539
	Light Industrial	17,986	1,399	8,993	42.97	17.99	199.84	119.90	7.19	22.48	69.34	2,198
	Other Urban	118,135	8,438	73,131	348.78	73.13	1,350.12	562.55	56.25	247.52	213.77	12,376
	Open	76,379	312	14,808	81.06	21.82	436.45	226.02	8.57	21.82	68.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	374,860	20,580	177,208	926.15	256.59	4,208.83	1,942.34	129.52	497.23	663.83	21,755
BLLNA2	Single-family	22,892	1,342	11,051	67.10	19.73	339.43	146.03	7.50	27.63	27.63	237
	Multi-family	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Commercial	719	56	360	1.72	0.72	7.99	4.80	0.29	0.90	2.77	88
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	23,821	1,413	11,541	69.43	20.58	349.82	151.83	7.89	28.97	30.78	347
BLLNA20	Single-family	580	34	280	1.70	0.50	8.59	3.70	0.19	0.70	0.70	6
	Multi-family	8,603	615	5,326	25.40	5.33	98.32	40.97	4.10	18.03	15.57	901
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,672	650	5,700	27.62	5.97	109.71	46.11	4.34	18.86	16.71	907
BLLNA3	Single-family	50,420	2,956	24,341	147.78	43.47	747.60	321.64	16.52	60.85	60.85	522
	Multi-family	5,875	420	3,637	17.35	3.64	67.15	27.98	2.80	12.31	10.63	616
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	56,295	3,375	27,978	165.13	47.10	814.75	349.62	19.31	73.16	71.48	1,137

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BLNNA4	Single-family	18,255	1,070	8,813	53.51	15.74	270.68	116.46	5.98	22.03	22.03	189
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	7,734	602	3,867	18.48	7.73	85.93	51.56	3.09	9.67	29.82	945
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	11,331	881	5,665	27.07	11.33	125.90	75.54	4.53	14.16	43.69	1,385
	Other Urban	12,590	899	7,794	37.17	7.79	143.88	59.95	6.00	26.38	22.78	1,319
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	49,910	3,452	26,139	136.22	42.60	626.40	303.51	19.60	72.24	118.32	3,838
BLNNA6	Single-family	17,676	1,036	8,533	51.81	15.24	262.09	112.76	5.79	21.33	21.33	183
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	14,748	1,147	7,374	35.23	14.75	163.87	98.32	5.90	18.44	56.86	1,803
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	38,129	2,591	18,610	100.02	35.34	486.71	247.30	13.83	46.43	98.74	2,623
BLNNA7	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	9,712	755	4,856	23.20	9.71	107.91	64.75	3.88	12.14	37.45	1,187
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,712	755	4,856	23.20	9.71	107.91	64.75	3.88	12.14	37.45	1,187
BLNNA8	Single-family	15,937	934	7,694	46.71	13.74	236.31	101.67	5.22	19.23	19.23	165
	Multi-family	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	13,309	1,035	6,655	31.79	13.31	147.88	88.73	5.32	16.64	51.31	1,627
	Other Urban	91,697	6,550	56,765	270.72	56.76	1,047.96	436.65	43.67	192.13	165.93	9,606
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	121,153	8,534	71,243	349.85	83.94	1,434.55	628.05	54.31	228.44	236.86	11,420
BLNNA9	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	22,842	1,777	11,421	54.57	22.84	253.80	152.28	9.14	28.55	88.07	2,792
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	29,506	2,167	14,638	74.10	28.59	352.62	194.79	11.32	36.60	96.11	2,861
BLNNA5	Single-family	31,295	1,835	15,108	91.73	26.98	464.03	199.64	10.25	37.77	37.77	324
	Multi-family	8,393	600	5,196	24.78	5.20	95.92	39.97	4.00	17.59	15.19	879
	Commercial	14,029	1,091	7,014	33.51	14.03	155.88	93.53	5.61	17.54	54.09	1,715
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	12,050	937	6,025	28.79	12.05	133.89	80.34	4.82	15.06	46.46	1,473
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	65,767	4,462	33,343	178.81	58.25	849.72	413.47	24.68	87.95	153.51	4,390
BLNNA12	Single-family	19,414	1,138	9,372	56.90	16.74	287.87	123.85	6.36	23.43	23.43	201
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	7,194	560	3,597	17.19	7.19	79.94	47.96	2.88	8.99	27.74	879
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	26,609	1,698	12,970	74.09	23.93	367.81	171.81	9.24	32.42	51.17	1,080

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BNDCT1	Single-family	293,245	17,190	141,567	859.51	252.80	4,348.12	1,870.70	96.06	353.92	353.92	3,034
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	193,885	791	37,590	205.76	55.40	1,107.91	573.74	21.76	55.40	174.10	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	487,130	17,982	179,157	1,065.27	308.19	5,456.03	2,444.44	117.83	409.31	528.02	3,034
BNDCT2	Single-family	99,970	5,860	48,261	293.02	86.18	1,482.31	637.74	32.75	120.65	120.65	1,034
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	101,439	5,866	48,546	294.57	86.60	1,490.71	642.09	32.91	121.07	121.97	1,034
BNDCT3	Single-family	58,243	3,414	28,117	170.71	50.21	863.61	371.55	19.08	70.29	70.29	603
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	360	28	180	0.86	0.36	4.00	2.40	0.14	0.45	1.39	44
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	59,582	3,446	28,487	172.61	50.85	873.20	376.85	19.33	71.02	72.56	646
BNDCT4	Single-family	74,181	4,349	35,811	217.43	63.95	1,099.92	473.22	24.30	89.53	89.53	767
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	2,878	224	1,439	6.87	2.88	31.97	19.18	1.15	3.60	11.10	352
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	29,376	120	5,695	31.18	8.39	167.87	86.93	3.30	8.39	26.38	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	106,435	4,692	42,946	255.48	75.22	1,299.76	579.34	28.75	101.52	127.00	1,119
BNDCT5	Single-family	69,255	4,060	33,433	202.99	59.70	1,026.88	441.80	22.69	83.58	83.58	716
	Multi-family	58,123	4,152	35,981	171.60	35.98	664.27	276.78	27.68	121.78	105.18	6,089
	Commercial	44,964	3,497	22,482	107.41	44.96	499.60	299.76	17.99	56.21	173.36	5,496
	Public	16,367	1,273	8,183	39.10	16.37	181.85	109.11	6.55	20.46	63.10	2,000
	Light Industrial	16,367	1,273	8,183	39.10	16.37	181.85	109.11	6.55	20.46	63.10	2,000
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	25,949	106	5,031	27.54	7.41	148.28	76.79	2.91	7.41	23.30	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	231,025	14,361	113,294	587.74	180.80	2,702.74	1,313.35	84.36	309.90	511.63	16,302
BNDCT6	Single-family	114,748	6,727	55,396	336.33	98.92	1,701.44	732.01	37.59	138.49	138.49	1,187
	Multi-family	57,704	4,122	35,721	170.36	35.72	659.47	274.78	27.48	120.90	104.42	6,045
	Commercial	28,417	2,210	14,209	67.89	28.42	315.75	189.45	11.37	35.52	109.56	3,473
	Public	3,777	294	1,888	9.02	3.78	41.97	25.18	1.51	4.72	14.56	462
	Light Industrial	4,496	350	2,248	10.74	4.50	49.96	29.98	1.80	5.62	17.34	550
	Other Urban	7,344	525	4,546	21.68	4.55	83.93	34.97	3.50	15.39	13.29	769
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	223,831	14,257	115,433	623.82	177.98	2,894.48	1,308.10	84.07	322.74	404.25	12,486
CCA14	Single-family	108,373	6,353	52,318	317.65	93.43	1,606.91	691.35	35.50	130.80	130.80	1,121
	Multi-family	101,978	7,284	63,129	301.08	63.13	1,165.47	485.61	48.56	213.67	184.53	10,683
	Commercial	33,094	2,574	16,547	79.06	33.09	367.71	220.62	13.24	41.37	127.59	4,045
	Public	8,813	685	4,406	21.05	8.81	97.92	58.75	3.53	11.02	33.98	1,077
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	252,258	16,896	136,401	718.83	198.46	3,238.01	1,456.33	100.83	396.85	476.90	16,926

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
CNTLA1	Single-family	38,249	2,242	18,465	112.11	32.97	567.15	244.00	12.53	46.16	46.16	396
	Multi-family	6,085	435	3,767	17.97	3.77	69.54	28.98	2.90	12.75	11.01	637
	Commercial	21,763	1,693	10,881	51.99	21.76	241.81	145.08	8.71	27.20	83.91	2,660
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	10,432	811	5,216	24.92	10.43	115.91	69.54	4.17	13.04	40.22	1,275
	Other Urban	13,639	974	8,443	40.27	8.44	155.88	64.95	6.49	28.58	24.68	1,429
	Open	9,792	40	1,898	10.39	2.80	55.96	28.98	1.10	2.80	8.79	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	99,960	6,195	48,671	257.64	80.18	1,206.23	581.53	35.90	130.53	214.77	6,397
CNTLA2	Single-family	55,925	3,278	26,998	163.92	48.21	829.24	356.76	18.32	67.50	67.50	579
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	719	56	360	1.72	0.72	7.99	4.80	0.29	0.90	2.77	88
	Public	719	56	360	1.72	0.72	7.99	4.80	0.29	0.90	2.77	88
	Light Industrial	27,518	2,140	13,759	65.74	27.52	305.76	183.45	11.01	34.40	106.10	3,363
	Other Urban	10,072	719	6,235	29.74	6.24	115.11	47.96	4.80	21.10	18.23	1,055
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	94,954	6,250	47,712	262.83	83.40	1,266.09	597.77	34.70	124.80	197.37	5,173
COLDW1	Single-family	222,542	13,046	107,434	652.28	191.85	3,299.76	1,419.66	72.90	268.58	268.58	2,302
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	29,376	120	5,695	31.18	8.39	167.87	86.93	3.30	8.39	26.38	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	251,918	13,165	113,129	683.45	200.24	3,467.62	1,506.59	76.20	276.98	294.96	2,302
COLDW2	Single-family	168,355	9,869	81,275	493.45	145.13	2,496.30	1,073.99	55.15	203.19	203.19	1,742
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	174,061	10,277	83,978	506.43	150.49	2,557.05	1,110.21	57.29	209.85	223.74	2,379
CULVER1	Single-family	63,459	3,720	30,635	186.00	54.71	940.95	404.83	20.79	76.59	76.59	656
	Multi-family	17,626	1,259	10,911	52.04	10.91	201.44	83.93	8.39	36.93	31.89	1,847
	Commercial	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Public	8,273	643	4,137	19.76	8.27	91.93	55.16	3.31	10.34	31.90	1,011
	Light Industrial	45,863	3,567	22,932	109.56	45.86	509.59	305.76	18.35	57.33	176.83	5,606
	Other Urban	4,197	300	2,598	12.39	2.60	47.96	19.98	2.00	8.79	7.59	440
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	141,936	9,685	72,472	385.77	124.87	1,819.84	886.44	53.84	193.13	334.51	9,867
DDI11	Single-family	22,892	1,342	11,051	67.10	19.73	339.43	146.03	7.50	27.63	27.63	237
	Multi-family	61,061	4,362	37,800	180.28	37.80	697.84	290.77	29.08	127.94	110.49	6,397
	Commercial	37,590	2,924	18,795	89.80	37.59	417.67	250.60	15.04	46.99	144.93	4,594
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	121,543	8,627	67,646	337.17	95.12	1,454.94	687.40	51.61	202.55	283.05	11,228
DDI111	Single-family	600,399	35,196	289,848	1,759.79	517.59	8,902.47	3,830.13	196.68	724.62	724.62	6,211
	Multi-family	102,398	7,314	63,389	302.32	63.39	1,170.26	487.61	48.76	214.55	185.29	10,727
	Commercial	72,482	5,637	36,241	173.15	72.48	805.36	483.21	28.99	90.60	279.46	8,859
	Public	8,813	685	4,406	21.05	8.81	97.92	58.75	3.53	11.02	33.98	1,077
	Light Industrial	23,022	1,791	11,511	55.00	23.02	255.80	153.48	9.21	28.78	88.76	2,814
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	13,709	56	2,658	14.55	3.92	78.34	40.57	1.54	3.92	12.31	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	820,823	50,679	408,053	2,325.86	689.21	11,310.14	5,053.75	288.71	1,073.48	1,324.42	29,688

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
DDI113	Single-family	157,924	9,258	76,239	462.88	136.14	2,341.63	1,007.44	51.73	190.60	190.60	1,634
	Multi-family	140,797	10,057	87,160	415.69	87.16	1,609.11	670.46	67.05	295.00	254.78	14,750
	Commercial	10,612	825	5,306	25.35	10.61	117.91	70.74	4.24	13.26	40.91	1,297
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	315,208	20,164	169,844	910.15	235.59	4,102.22	1,766.04	123.68	500.54	491.56	17,681
DDI114	Single-family	496,952	29,132	239,908	1,456.58	428.41	7,368.60	3,170.21	162.79	599.77	599.77	5,141
	Multi-family	337,410	24,101	208,873	996.16	208.87	3,856.11	1,606.71	160.67	706.95	610.55	35,348
	Commercial	137,950	10,729	68,975	329.55	137.95	1,532.77	919.66	55.18	172.44	531.87	16,861
	Public	12,770	993	6,385	30.51	12.77	141.89	85.13	5.11	15.96	49.23	1,561
	Light Industrial	22,662	1,763	11,331	54.14	22.66	251.80	151.08	9.06	28.33	87.37	2,770
	Other Urban	7,344	525	4,546	21.68	4.55	83.93	34.97	3.50	15.39	13.29	769
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,019,494	67,260	540,872	2,893.29	816.47	13,260.28	5,980.81	396.81	1,540.10	1,896.05	62,449
DDI3	Single-family	275,280	16,137	132,894	806.85	237.31	4,081.73	1,756.09	90.18	332.23	332.23	2,848
	Multi-family	155,905	11,136	96,513	460.29	96.51	1,781.77	742.41	74.24	326.66	282.11	16,333
	Commercial	25,899	2,014	12,950	61.87	25.90	287.77	172.66	10.36	32.37	99.86	3,165
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	42,446	3,301	21,223	101.40	42.45	471.62	282.97	16.98	53.06	163.65	5,188
	Other Urban	16,577	1,184	10,262	48.94	10.26	189.45	78.94	7.89	34.73	30.00	1,737
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	516,596	33,775	273,936	1,479.88	412.57	6,815.14	3,034.52	199.71	779.20	908.29	29,271
FRANK1	Single-family	31,005	1,818	14,968	90.88	26.73	459.73	197.79	10.16	37.42	37.42	321
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	126,808	518	24,585	134.57	36.23	724.62	375.25	14.23	36.23	113.87	0
	Unknown	9,233	659	5,715	27.26	5.72	105.52	43.96	4.40	19.34	16.71	967
	Catchment Total	167,046	2,995	45,269	252.71	68.68	1,289.87	617.01	28.79	93.00	168.00	1,288
GRCNL1	Single-family	28,397	1,665	13,709	83.23	24.48	421.06	181.15	9.30	34.27	34.27	294
	Multi-family	39,239	2,803	24,291	115.85	24.29	448.44	186.85	18.69	82.21	71.00	4,111
	Commercial	8,993	699	4,496	21.48	8.99	99.92	59.95	3.60	11.24	34.67	1,099
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	7,834	32	1,519	8.31	2.24	44.76	23.18	0.88	2.24	7.03	0
	Unknown	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Catchment Total	84,672	5,214	44,145	229.50	60.13	1,016.59	452.14	32.56	130.41	147.36	5,526
LA1177	Single-family	437,260	25,632	211,091	1,281.62	376.95	6,483.51	2,789.42	143.24	527.73	527.73	4,523
	Multi-family	146,043	10,432	90,408	431.17	90.41	1,669.06	695.44	69.54	306.00	264.27	15,300
	Commercial	82,014	6,379	41,007	195.92	82.01	911.27	546.76	32.81	102.52	316.21	10,024
	Public	21,763	1,693	10,881	51.99	21.76	241.81	145.08	8.71	27.20	83.91	2,660
	Light Industrial	21,403	1,665	10,701	51.13	21.40	237.81	142.69	8.56	26.75	82.52	2,616
	Other Urban	60,222	4,302	37,280	177.80	37.28	688.25	286.77	28.68	126.18	108.97	6,309
	Open	61,201	250	11,866	64.95	17.49	349.72	181.11	6.87	17.49	54.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	829,906	50,352	413,234	2,254.58	647.30	10,581.43	4,787.27	298.40	1,133.86	1,438.56	41,432
MDREY1	Single-family	5,506	323	2,658	16.14	4.75	81.63	35.12	1.80	6.64	6.64	57
	Multi-family	25,809	1,844	15,977	76.20	15.98	294.96	122.90	12.29	54.08	46.70	2,704
	Commercial	16,906	1,315	8,453	40.39	16.91	187.85	112.71	6.76	21.13	65.18	2,066
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	131,145	9,368	81,185	387.19	81.19	1,498.80	624.50	62.45	274.78	237.31	13,739
	Open	10,282	42	1,993	10.91	2.94	58.75	30.43	1.15	2.94	9.23	0
	Unknown	44,694	3,192	27,668	131.95	27.67	510.79	212.83	21.28	93.65	80.88	4,682
	Catchment Total	234,342	16,083	137,935	662.78	149.42	2,632.79	1,138.49	105.74	453.22	445.95	23,248

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
MORAG1	Single-family	97,652	5,724	47,142	286.22	84.18	1,447.94	622.95	31.99	117.86	117.86	1,010
	Multi-family	3,147	225	1,948	9.29	1.95	35.97	14.99	1.50	6.59	5.70	330
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	122,892	502	23,826	130.42	35.11	702.24	363.66	13.79	35.11	110.35	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	223,691	6,451	72,917	425.93	121.24	2,186.15	1,001.60	47.28	159.56	233.90	1,340
MT318	Single-family	154,157	9,037	74,420	451.84	132.89	2,285.77	983.41	50.50	186.05	186.05	1,595
	Multi-family	98,831	7,059	61,181	291.79	61.18	1,129.50	470.62	47.06	207.07	178.84	10,354
	Commercial	30,935	2,406	15,468	73.90	30.94	343.72	206.23	12.37	38.67	119.27	3,781
	Public	8,993	699	4,496	21.48	8.99	99.92	59.95	3.60	11.24	34.67	1,099
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	132,194	9,442	81,834	390.29	81.83	1,510.79	629.50	62.95	276.98	239.21	13,849
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	430,495	28,666	238,444	1,235.01	317.38	5,400.48	2,365.66	177.09	721.55	762.88	30,677
MT430	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	40,707	2,908	25,200	120.18	25.20	465.23	193.84	19.38	85.29	73.66	4,265
	Commercial	540	42	270	1.29	0.54	6.00	3.60	0.22	0.67	2.08	66
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	45,054	3,013	26,459	127.14	27.33	500.90	211.68	20.21	87.85	79.43	4,340
PANPC1	Single-family	725,000	42,500	350,000	2,125.00	625.00	10,749.99	4,625.00	237.50	875.00	875.00	7,500
	Multi-family	357,134	25,510	221,083	1,054.40	221.08	4,081.53	1,700.64	170.06	748.28	646.24	37,414
	Commercial	117,986	9,177	58,993	281.85	117.99	1,310.95	786.57	47.19	147.48	454.90	14,420
	Public	15,827	1,231	7,914	37.81	15.83	175.86	105.52	6.33	19.78	61.02	1,934
	Light Industrial	79,316	6,169	39,658	189.48	79.32	881.29	528.78	31.73	99.15	305.81	9,694
	Other Urban	10,282	734	6,365	30.36	6.36	117.51	48.96	4.90	21.54	18.61	1,077
	Open	198,781	811	38,539	210.95	56.79	1,135.89	588.23	22.31	56.79	178.50	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,504,326	86,132	722,551	3,929.84	1,122.37	18,453.03	8,383.69	520.02	1,968.03	2,540.08	72,040
RXFRD1	Single-family	166,327	9,750	80,296	487.51	143.39	2,466.23	1,061.05	54.49	200.74	200.74	1,721
	Multi-family	30,426	2,173	18,835	89.83	18.83	347.72	144.88	14.49	63.75	55.06	3,187
	Commercial	79,137	6,155	39,568	189.05	79.14	879.30	527.58	31.65	98.92	305.12	9,672
	Public	5,935	462	2,968	14.18	5.94	65.95	39.57	2.37	7.42	22.88	725
	Light Industrial	15,468	1,203	7,734	36.95	15.47	171.86	103.12	6.19	19.33	59.64	1,890
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	297,292	19,743	149,400	817.52	262.76	3,931.05	1,876.20	109.19	390.16	643.43	17,196
SAWTL1	Single-family	344,534	20,197	166,327	1,009.84	297.01	5,108.61	2,197.89	112.86	415.82	415.82	3,564
	Multi-family	264,598	18,900	163,799	781.19	163.80	3,023.98	1,259.99	126.00	554.40	478.80	27,720
	Commercial	80,755	6,281	40,378	192.92	80.76	897.28	538.37	32.30	100.94	311.36	9,870
	Public	139,928	10,883	69,964	334.27	139.93	1,554.76	932.85	55.97	174.91	539.50	17,102
	Light Industrial	22,842	1,777	11,421	54.57	22.84	253.80	152.28	9.14	28.55	88.07	2,792
	Other Urban	32,734	2,338	20,264	96.64	20.26	374.10	155.88	15.59	68.59	59.23	3,429
	Open	46,023	188	8,923	48.84	13.15	262.99	136.19	5.17	13.15	41.33	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	931,414	60,564	481,075	2,518.27	737.75	11,475.51	5,373.45	357.03	1,356.35	1,934.10	64,477
SEPUL1	Single-family	71,573	4,196	34,552	209.78	61.70	1,061.25	456.58	23.45	86.38	86.38	740
	Multi-family	1,888	135	1,169	5.58	1.17	21.58	8.99	0.90	3.96	3.42	198
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	127,368	9,098	78,847	376.04	78.85	1,455.63	606.51	60.65	266.87	230.48	13,343
	Open	325,100	1,327	63,030	345.00	92.89	1,857.71	962.03	36.49	92.89	291.93	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	525,929	14,755	177,598	936.40	234.60	4,396.18	2,034.12	121.49	450.09	612.20	14,282

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB148	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,764	60	1,684	9.03	2.36	46.76	23.73	1.02	2.98	7.35	44
SMB149	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,316	50	1,209	6.43	1.66	32.77	16.49	0.75	2.28	5.16	44
SMB150	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	6,855	28	1,329	7.27	1.96	39.17	20.28	0.77	1.96	6.16	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,274	58	1,589	8.51	2.22	43.96	22.28	0.97	2.84	6.91	44
SMB151	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
SMB152	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,764	60	1,684	9.03	2.36	46.76	23.73	1.02	2.98	7.35	44
SMB153	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,098	51	674	3.42	0.81	15.59	7.34	0.46	1.74	2.46	66
BI3402	Single-family	41,727	2,446	20,144	122.30	35.97	618.70	266.19	13.67	50.36	50.36	432
	Multi-family	6,505	465	4,027	19.20	4.03	74.34	30.98	3.10	13.63	11.77	681
	Commercial	11,691	909	5,845	27.93	11.69	129.90	77.94	4.68	14.61	45.07	1,429
	Public	2,878	224	1,439	6.87	2.88	31.97	19.18	1.15	3.60	11.10	352
	Light Industrial	37,230	2,896	18,615	88.94	37.23	413.67	248.20	14.89	46.54	143.54	4,550
	Other Urban	9,023	644	5,586	26.64	5.59	103.12	42.97	4.30	18.90	16.33	945
	Open	10,771	44	2,088	11.43	3.08	61.55	31.87	1.21	3.08	9.67	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	119,824	7,628	57,744	303.32	100.46	1,433.25	717.33	42.99	150.72	287.84	8,389

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SEPUL2	Single-family	164,588	9,648	79,456	482.41	141.89	2,440.45	1,049.96	53.92	198.64	198.64	1,703
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	4,676	364	2,338	11.17	4.68	51.96	31.18	1.87	5.85	18.03	572
	Public	50,540	3,931	25,270	120.73	50.54	561.55	336.93	20.22	63.17	194.86	6,177
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	9,862	704	6,105	29.12	6.11	112.71	46.96	4.70	20.66	17.85	1,033
	Open	22,522	92	4,367	23.90	6.43	128.70	66.65	2.53	6.43	20.22	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	252,188	14,739	117,536	667.34	209.64	3,295.36	1,531.67	83.23	294.76	449.60	9,484
SEPUL3	Single-family	137,640	8,069	66,447	403.43	118.66	2,040.87	878.05	45.09	166.12	166.12	1,424
	Multi-family	90,228	6,445	55,855	266.39	55.86	1,031.17	429.66	42.97	189.05	163.27	9,452
	Commercial	55,036	4,281	27,518	131.47	55.04	611.51	366.91	22.01	68.79	212.19	6,727
	Public	44,424	3,455	22,212	106.13	44.42	493.60	296.16	17.77	55.53	171.28	5,430
	Light Industrial	31,835	2,476	15,917	76.05	31.83	353.72	212.23	12.73	39.79	122.74	3,891
	Other Urban	22,872	1,634	14,159	67.53	14.16	261.39	108.91	10.89	47.92	41.39	2,396
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	383,503	26,365	202,393	1,052.55	320.38	4,800.66	2,296.26	151.63	567.63	878.31	29,320
SEPUL5	Single-family	123,731	7,253	59,732	362.66	106.66	1,834.63	789.32	40.53	149.33	149.33	1,280
	Multi-family	37,560	2,683	23,251	110.89	23.25	429.26	178.86	17.89	78.70	67.97	3,935
	Commercial	7,194	560	3,597	17.19	7.19	79.94	47.96	2.88	8.99	27.74	879
	Public	3,597	280	1,799	8.59	3.60	39.97	23.98	1.44	4.50	13.87	440
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	2,728	195	1,689	8.05	1.69	31.18	12.99	1.30	5.72	4.94	286
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	174,810	10,970	90,068	507.38	142.40	2,414.97	1,053.11	64.03	247.23	263.84	6,820
STONE1	Single-family	137,060	8,035	66,167	401.73	118.16	2,032.27	874.35	44.90	165.42	165.42	1,418
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	32,734	2,546	16,367	78.20	32.73	363.71	218.23	13.09	40.92	126.21	4,001
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	193,395	789	37,495	205.24	55.26	1,105.12	572.29	21.71	55.26	173.66	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	363,189	11,370	120,029	685.16	206.14	3,501.10	1,664.87	79.70	261.59	465.29	5,419
STONE2	Single-family	67,806	3,975	32,734	198.74	58.45	1,005.40	432.55	22.21	81.83	81.83	701
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	3,417	266	1,709	8.16	3.42	37.97	22.78	1.37	4.27	13.18	418
	Public	21,583	1,679	10,791	51.56	21.58	239.81	143.88	8.63	26.98	83.21	2,638
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	10,282	42	1,993	10.91	2.94	58.75	30.43	1.15	2.94	9.23	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	103,087	5,961	47,227	269.37	86.39	1,341.93	629.65	33.37	116.02	187.46	3,757
STONE3	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	22,452	1,604	13,899	66.29	13.90	256.59	106.91	10.69	47.04	40.63	2,352
	Commercial	5,576	434	2,788	13.32	5.58	61.95	37.17	2.23	6.97	21.50	681
	Public	74,281	5,777	37,140	177.45	74.28	825.34	495.20	29.71	92.85	286.39	9,079
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	102,308	7,815	53,827	257.05	93.75	1,143.88	639.29	42.63	146.86	348.52	12,112
WATER	Single-family	4,636	272	2,238	13.59	4.00	68.74	29.58	1.52	5.60	5.60	48
	Multi-family	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	7,914	616	3,957	18.90	7.91	87.93	52.76	3.17	9.89	30.51	967
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,760	902	6,325	33.11	12.04	159.07	83.33	4.78	15.93	36.49	1,037

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI513A	Single-family	35,352	2,072	17,066	103.62	30.48	524.18	225.52	11.58	42.67	42.67	366
	Multi-family	11,541	824	7,144	34.07	7.14	131.89	54.96	5.50	24.18	20.88	1,209
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	1,469	105	909	4.34	0.91	16.79	6.99	0.70	3.08	2.66	154
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	53,257	3,022	26,069	147.22	39.93	700.84	301.96	18.33	71.32	70.60	1,729
BI513C	Single-family	167,486	9,818	80,855	490.91	144.38	2,483.41	1,068.44	54.87	202.14	202.14	1,733
	Multi-family	2,938	210	1,819	8.67	1.82	33.57	13.99	1.40	6.16	5.32	308
	Commercial	11,331	881	5,665	27.07	11.33	125.90	75.54	4.53	14.16	43.69	1,385
	Public	15,468	1,203	7,734	36.95	15.47	171.86	103.12	6.19	19.33	59.64	1,890
	Light Industrial	8,453	657	4,227	20.19	8.45	93.92	56.35	3.38	10.57	32.59	1,033
	Other Urban	430,785	30,770	266,676	1,271.84	266.68	4,923.26	2,051.36	205.14	902.60	779.52	45,130
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	641,846	43,562	368,020	1,861.35	449.67	7,862.70	3,384.74	276.11	1,156.49	1,127.72	51,479
BI5241	Single-family	223,701	13,114	107,994	655.68	192.85	3,316.94	1,427.06	73.28	269.98	269.98	2,314
	Multi-family	25,390	1,814	15,717	74.96	15.72	290.17	120.90	12.09	53.20	45.94	2,660
	Commercial	33,094	2,574	16,547	79.06	33.09	367.71	220.62	13.24	41.37	127.59	4,045
	Public	37,050	2,882	18,525	88.51	37.05	411.67	247.00	14.82	46.31	142.85	4,528
	Light Industrial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Other Urban	294,604	21,043	182,374	869.78	182.37	3,366.90	1,402.88	140.29	617.27	533.09	30,863
	Open	50,430	206	9,777	53.52	14.41	288.17	149.23	5.66	14.41	45.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	664,448	41,646	351,024	1,821.93	475.67	8,043.56	3,568.89	259.45	1,042.76	1,165.44	44,432
SMB144	Single-family	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,472	529	4,431	26.85	7.88	135.99	58.75	3.00	10.98	11.28	93
SMB145	Single-family	2,898	170	1,399	8.49	2.50	42.97	18.49	0.95	3.50	3.50	30
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,367	176	1,684	10.05	2.92	51.36	22.83	1.11	3.92	4.82	30
SMB146	Single-family	2,898	170	1,399	8.49	2.50	42.97	18.49	0.95	3.50	3.50	30
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,283	192	2,443	14.21	4.04	73.74	34.42	1.55	5.04	8.33	30
SMB147	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Open	2,938	12	570	3.12	0.84	16.79	8.69	0.33	0.84	2.64	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,147	27	699	3.74	0.97	19.18	9.69	0.43	1.28	3.02	22

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB148	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,764	60	1,684	9.03	2.36	46.76	23.73	1.02	2.98	7.35	44
SMB149	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,316	50	1,209	6.43	1.66	32.77	16.49	0.75	2.28	5.16	44
SMB150	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	6,855	28	1,329	7.27	1.96	39.17	20.28	0.77	1.96	6.16	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,274	58	1,589	8.51	2.22	43.96	22.28	0.97	2.84	6.91	44
SMB151	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,917	16	759	4.16	1.12	22.38	11.59	0.44	1.12	3.52	0
SMB152	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	7,764	60	1,684	9.03	2.36	46.76	23.73	1.02	2.98	7.35	44
SMB153	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,098	51	674	3.42	0.81	15.59	7.34	0.46	1.74	2.46	66
BI3402	Single-family	41,727	2,446	20,144	122.30	35.97	618.70	266.19	13.67	50.36	50.36	432
	Multi-family	6,505	465	4,027	19.20	4.03	74.34	30.98	3.10	13.63	11.77	681
	Commercial	11,691	909	5,845	27.93	11.69	129.90	77.94	4.68	14.61	45.07	1,429
	Public	2,878	224	1,439	6.87	2.88	31.97	19.18	1.15	3.60	11.10	352
	Light Industrial	37,230	2,896	18,615	88.94	37.23	413.67	248.20	14.89	46.54	143.54	4,550
	Other Urban	9,023	644	5,586	26.64	5.59	103.12	42.97	4.30	18.90	16.33	945
	Open	10,771	44	2,088	11.43	3.08	61.55	31.87	1.21	3.08	9.67	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	119,824	7,628	57,744	303.32	100.46	1,433.25	717.33	42.99	150.72	287.84	8,389

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB154	Single-family	869	51	420	2.55	0.75	12.89	5.55	0.28	1.05	1.05	9
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	68,825	4,916	42,606	203.20	42.61	786.57	327.74	32.77	144.20	124.54	7,210
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	71,653	4,975	43,405	207.82	43.91	810.65	339.08	33.28	145.81	127.35	7,219
SMB158	Single-family	8,693	510	4,197	25.48	7.49	128.90	55.46	2.85	10.49	10.49	90
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	324,820	23,201	201,079	958.99	201.08	3,712.23	1,546.76	154.68	680.58	587.77	34,029
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	333,513	23,711	205,276	984.47	208.57	3,841.12	1,602.22	157.52	691.07	598.26	34,119
BI286	Single-family	375,829	22,031	181,435	1,101.57	323.99	5,572.64	2,397.53	123.12	453.59	453.59	3,888
	Multi-family	9,862	704	6,105	29.12	6.11	112.71	46.96	4.70	20.66	17.85	1,033
	Commercial	29,496	2,294	14,748	70.46	29.50	327.74	196.64	11.80	36.87	113.72	3,605
	Public	40,288	3,133	20,144	96.24	40.29	447.64	268.58	16.12	50.36	155.33	4,924
	Light Industrial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Other Urban	3,567	255	2,208	10.53	2.21	40.77	16.99	1.70	7.47	6.45	374
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	466,566	28,462	226,154	1,316.15	404.37	6,545.46	2,949.64	158.32	571.28	754.23	13,846
BI4050	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	1,259	98	629	3.01	1.26	13.99	8.39	0.50	1.57	4.85	154
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,372	574	4,546	26.79	8.25	134.29	60.15	3.16	11.37	14.65	238
BI440	Single-family	70,703	4,145	34,133	207.23	60.95	1,048.36	451.04	23.16	85.33	85.33	731
	Multi-family	14,269	1,019	8,833	42.13	8.83	163.07	67.95	6.79	29.90	25.82	1,495
	Commercial	10,252	797	5,126	24.49	10.25	113.91	68.35	4.10	12.81	39.53	1,253
	Public	6,655	518	3,327	15.90	6.65	73.94	44.36	2.66	8.32	25.66	813
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	101,878	6,479	51,419	289.75	86.69	1,399.28	631.69	36.72	136.36	176.33	4,293
BI5452B	Single-family	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	1,619	126	809	3.87	1.62	17.99	10.79	0.65	2.02	6.24	198
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,965	381	2,908	16.61	5.37	82.43	38.52	2.07	7.27	11.49	243
BI5452E	Single-family	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI5452G	Single-family	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
BI5452I	Single-family	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	2,318	136	1,119	6.79	2.00	34.37	14.79	0.76	2.80	2.80	24
BI9815	Single-family	58,823	3,448	28,397	172.41	50.71	872.20	375.25	19.27	70.99	70.99	609
	Multi-family	2,518	180	1,559	7.43	1.56	28.78	11.99	1.20	5.28	4.56	264
	Commercial	1,619	126	809	3.87	1.62	17.99	10.79	0.65	2.02	6.24	198
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	62,960	3,754	30,765	183.71	53.89	918.96	398.03	21.12	78.29	81.79	1,070
SMB161	Single-family	2,898	170	1,399	8.49	2.50	42.97	18.49	0.95	3.50	3.50	30
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	3,108	185	1,529	9.11	2.63	45.36	19.48	1.05	3.94	3.88	52
SMB162	Single-family	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
SMB163	Single-family	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
SMB164	Single-family	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,795	340	2,798	16.99	5.00	85.93	36.97	1.90	6.99	6.99	60

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB165	Single-family	6,954	408	3,357	20.38	6.00	103.12	44.36	2.28	8.39	8.39	72
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,954	408	3,357	20.38	6.00	103.12	44.36	2.28	8.39	8.39	72
SMB166	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,237	252	2,048	12.32	3.68	62.15	27.08	1.40	5.12	5.59	64
SMB167	Single-family	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,347	255	2,098	12.74	3.75	64.45	27.73	1.42	5.25	5.25	45
SMB168	Single-family	17,096	1,002	8,253	50.11	14.74	253.50	109.06	5.60	20.63	20.63	177
	Multi-family	2,308	165	1,429	6.81	1.43	26.38	10.99	1.10	4.84	4.18	242
	Commercial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	24,620	1,573	12,290	69.38	21.38	337.83	154.83	8.79	31.99	44.92	1,056
SMB169	Single-family	6,375	374	3,078	18.69	5.50	94.52	40.67	2.09	7.69	7.69	66
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,375	374	3,078	18.69	5.50	94.52	40.67	2.09	7.69	7.69	66
SMB170	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
SMB171	Single-family	4,926	289	2,378	14.44	4.25	73.04	31.42	1.61	5.95	5.95	51
	Multi-family	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,346	319	2,638	15.68	4.51	77.84	33.42	1.81	6.82	6.70	95

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB172	Single-family	7,534	442	3,637	22.08	6.49	111.71	48.06	2.47	9.09	9.09	78
	Multi-family	10,701	764	6,625	31.59	6.62	122.30	50.96	5.10	22.42	19.36	1,121
	Commercial	4,676	364	2,338	11.17	4.68	51.96	31.18	1.87	5.85	18.03	572
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	22,912	1,570	12,600	64.85	17.80	285.97	130.20	9.43	37.36	46.49	1,771
SMB173	Single-family	3,477	204	1,679	10.19	3.00	51.56	22.18	1.14	4.20	4.20	36
	Multi-family	4,826	345	2,988	14.25	2.99	55.16	22.98	2.30	10.11	8.73	506
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,303	549	4,666	24.44	5.99	106.71	45.16	3.44	14.31	12.93	542
BI1105	Single-family	525,639	30,813	253,757	1,540.67	453.14	7,793.96	3,353.22	172.19	634.39	634.39	5,438
	Multi-family	80,785	5,770	50,010	238.51	50.01	923.26	384.69	38.47	169.26	146.18	8,463
	Commercial	55,036	4,281	27,518	131.47	55.04	611.51	366.91	22.01	68.79	212.19	6,727
	Public	77,698	6,043	38,849	185.61	77.70	863.31	517.99	31.08	97.12	299.57	9,496
	Light Industrial	4,676	364	2,338	11.17	4.68	51.96	31.18	1.87	5.85	18.03	572
	Other Urban	44,904	3,207	27,798	132.57	27.80	513.19	213.83	21.38	94.08	81.25	4,704
	Open	7,344	30	1,424	7.79	2.10	41.97	21.73	0.82	2.10	6.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	796,083	50,509	401,693	2,247.80	670.45	10,799.15	4,889.54	287.83	1,071.60	1,398.22	35,400
BI569F	Single-family	33,034	1,936	15,947	96.82	28.48	489.81	210.73	10.82	39.87	39.87	342
	Multi-family	1,888	135	1,169	5.58	1.17	21.58	8.99	0.90	3.96	3.42	198
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	34,922	2,071	17,116	102.40	29.65	511.39	219.72	11.72	43.82	43.29	540
BI6550	Single-family	66,067	3,873	31,894	193.64	56.95	979.62	421.46	21.64	79.74	79.74	683
	Multi-family	27,488	1,963	17,016	81.16	17.02	314.15	130.90	13.09	57.59	49.74	2,880
	Commercial	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Public	28,597	2,224	14,299	68.32	28.60	317.75	190.65	11.44	35.75	110.26	3,495
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	125,879	8,314	64,923	351.37	105.95	1,650.28	766.04	47.52	177.26	252.66	7,454
SMB174	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	420	30	260	1.24	0.26	4.80	2.00	0.20	0.88	0.76	44
	Commercial	5,576	434	2,788	13.32	5.58	61.95	37.17	2.23	6.97	21.50	681
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	19,095	1,364	11,821	56.37	11.82	218.23	90.93	9.09	40.01	34.55	2,000
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	25,090	1,828	14,868	70.93	17.66	284.97	130.10	11.52	47.86	56.81	2,726
SMB175	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	8,393	600	5,196	24.78	5.20	95.92	39.97	4.00	17.59	15.19	879
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	2,728	195	1,689	8.05	1.69	31.18	12.99	1.30	5.72	4.94	286
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,100	798	7,074	33.87	7.16	132.69	55.86	5.41	23.58	21.00	1,165

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB176	Single-family	184,872	10,837	89,249	541.87	159.37	2,741.21	1,179.36	60.56	223.12	223.12	1,912
	Multi-family	28,537	2,038	17,666	84.25	17.67	326.14	135.89	13.59	59.79	51.64	2,990
	Commercial	7,014	546	3,507	16.76	7.01	77.94	46.76	2.81	8.77	27.04	857
	Public	7,374	574	3,687	17.62	7.37	81.93	49.16	2.95	9.22	28.43	901
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	233,883	14,034	115,378	667.35	193.24	3,263.19	1,429.56	80.67	303.02	335.89	6,683
BI558A	Single-family	221,093	12,961	106,735	648.03	190.60	3,278.28	1,410.42	72.43	266.84	266.84	2,287
	Multi-family	12,170	869	7,534	35.93	7.53	139.09	57.95	5.80	25.50	22.02	1,275
	Commercial	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Public	10,791	839	5,396	25.78	10.79	119.90	71.94	4.32	13.49	41.61	1,319
	Light Industrial	5,216	406	2,608	12.46	5.22	57.95	34.77	2.09	6.52	20.11	637
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	27,418	112	5,316	29.10	7.83	156.67	81.14	3.08	7.83	24.62	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	276,868	15,201	127,678	751.73	222.15	3,753.89	1,657.42	87.77	320.40	375.89	5,541
BI558C	Single-family	148,071	8,680	71,483	434.00	127.65	2,195.54	944.59	48.51	178.71	178.71	1,532
	Multi-family	24,341	1,739	15,068	71.86	15.07	278.18	115.91	11.59	51.00	44.04	2,550
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	10,432	811	5,216	24.92	10.43	115.91	69.54	4.17	13.04	40.22	1,275
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	183,823	11,234	91,956	531.82	153.43	2,595.22	1,132.94	64.38	243.03	263.85	5,357
BI569E	Single-family	79,686	4,671	38,469	233.56	68.70	1,181.55	508.34	26.10	96.17	96.17	824
	Multi-family	5,875	420	3,637	17.35	3.64	67.15	27.98	2.80	12.31	10.63	616
	Commercial	12,410	965	6,205	29.65	12.41	137.89	82.73	4.96	15.51	47.85	1,517
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	97,972	6,056	48,311	280.56	84.74	1,386.59	619.05	33.87	124.00	154.65	2,957
BI6001	Single-family	209,792	12,298	101,279	614.91	180.86	3,110.71	1,338.33	68.72	253.20	253.20	2,170
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	54,836	224	10,631	58.19	15.67	313.35	162.27	6.16	15.67	49.24	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	264,628	12,522	111,910	673.10	196.52	3,424.06	1,500.60	74.88	268.86	302.44	2,170
BI6050	Single-family	28,107	1,648	13,569	82.38	24.23	416.77	179.31	9.21	33.92	33.92	291
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	2,698	210	1,349	6.44	2.70	29.98	17.99	1.08	3.37	10.40	330
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	36,191	1,879	15,962	94.54	28.47	477.52	213.23	10.89	38.83	49.16	621
BI724	Single-family	77,368	4,535	37,350	226.77	66.70	1,147.18	493.55	25.34	93.38	93.38	800
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	11,261	46	2,183	11.95	3.22	64.35	33.32	1.26	3.22	10.11	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	88,629	4,581	39,533	238.72	69.91	1,211.53	526.88	26.61	96.59	103.49	800

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
BI9817	Single-family	53,897	3,159	26,019	157.97	46.46	799.16	343.82	17.66	65.05	65.05	558
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	4,676	364	2,338	11.17	4.68	51.96	31.18	1.87	5.85	18.03	572
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	59,063	3,525	28,452	169.66	51.28	853.92	376.45	19.58	71.03	83.52	1,129
MT12911	Single-family	5,506	323	2,658	16.14	4.75	81.63	35.12	1.80	6.64	6.64	57
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,506	323	2,658	16.14	4.75	81.63	35.12	1.80	6.64	6.64	57
MT12912	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
MT1292	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
MT54	Single-family	16,807	985	8,114	49.26	14.49	249.20	107.21	5.51	20.28	20.28	174
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	17,786	989	8,303	50.30	14.77	254.80	110.11	5.62	20.56	21.16	174
SMB183	Single-family	7,244	425	3,497	21.23	6.25	107.41	46.21	2.37	8.74	8.74	75
	Multi-family	5,246	375	3,247	15.49	3.25	59.95	24.98	2.50	10.99	9.49	550
	Commercial	7,554	588	3,777	18.05	7.55	83.93	50.36	3.02	9.44	29.12	923
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	20,044	1,387	10,522	54.77	17.05	251.30	121.55	7.89	29.18	47.36	1,548
SMB185	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	13,639	974	8,443	40.27	8.44	155.88	64.95	6.49	28.58	24.68	1,429
	Commercial	360	28	180	0.86	0.36	4.00	2.40	0.14	0.45	1.39	44
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	14,488	1,004	8,718	41.65	8.94	162.67	68.79	6.69	29.17	26.51	1,473

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB187	Single-family	36,801	2,157	17,766	107.86	31.72	545.66	234.76	12.06	44.41	44.41	381
	Multi-family	4,406	315	2,728	13.01	2.73	50.36	20.98	2.10	9.23	7.97	462
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	2,698	210	1,349	6.44	2.70	29.98	17.99	1.08	3.37	10.40	330
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	44,394	2,684	21,937	127.84	37.29	628.80	275.18	15.29	57.16	63.23	1,172
SMB191	Single-family	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
SMB192	Single-family	19,994	1,172	9,652	58.60	17.24	296.46	127.55	6.55	24.13	24.13	207
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	19,994	1,172	9,652	58.60	17.24	296.46	127.55	6.55	24.13	24.13	207
SMB193	Single-family	15,937	934	7,694	46.71	13.74	236.31	101.67	5.22	19.23	19.23	165
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	20,344	952	8,548	51.39	15.00	261.49	114.71	5.72	20.49	23.19	165
SMB194	Single-family	6,375	374	3,078	18.69	5.50	94.52	40.67	2.09	7.69	7.69	66
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,802	388	3,742	22.32	6.47	114.11	50.81	2.47	8.67	10.77	66
SMB195	Single-family	11,301	662	5,456	33.12	9.74	167.57	72.09	3.70	13.64	13.64	117
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	13,259	670	5,835	35.20	10.30	178.76	77.89	3.92	14.20	15.40	117
SMB201	Single-family	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	7,014	546	3,507	16.76	7.01	77.94	46.76	2.81	8.77	27.04	857
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	16,487	1,074	7,939	43.61	14.90	213.93	105.52	5.80	19.75	38.33	950

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB202	Single-family	5,506	323	2,658	16.14	4.75	81.63	35.12	1.80	6.64	6.64	57
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	5,506	323	2,658	16.14	4.75	81.63	35.12	1.80	6.64	6.64	57
SMB203	Single-family	16,517	968	7,974	48.41	14.24	244.90	105.37	5.41	19.93	19.93	171
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,597	280	1,799	8.59	3.60	39.97	23.98	1.44	4.50	13.87	440
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	20,114	1,248	9,772	57.00	17.84	284.87	129.35	6.85	24.43	33.80	611
ALTMR1	Single-family	117,066	6,863	56,515	343.13	100.92	1,735.81	746.80	38.35	141.29	141.29	1,211
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	6,655	518	3,327	15.90	6.65	73.94	44.36	2.66	8.32	25.66	813
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	61,201	250	11,866	64.95	17.49	349.72	181.11	6.87	17.49	54.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	184,922	7,630	71,708	423.97	125.06	2,159.47	972.27	47.88	167.09	221.90	2,024
BRKTN1	Single-family	45,494	2,667	21,962	133.34	39.22	674.56	290.22	14.90	54.91	54.91	471
	Multi-family	210	15	130	0.62	0.13	2.40	1.00	0.10	0.44	0.38	22
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	3,957	308	1,978	9.45	3.96	43.96	26.38	1.58	4.95	15.26	484
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	30,356	124	5,885	32.21	8.67	173.46	89.83	3.41	8.67	27.26	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	80,016	3,114	29,956	175.63	51.98	894.38	407.42	19.99	68.96	97.80	976
KLNDK1	Single-family	31,585	1,852	15,248	92.58	27.23	468.33	201.49	10.35	38.12	38.12	327
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	14,199	58	2,753	15.07	4.06	81.14	42.02	1.59	4.06	12.75	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	45,783	1,909	18,001	107.64	31.28	549.46	243.51	11.94	42.18	50.87	327
MT1069	Single-family	6,665	391	3,217	19.53	5.75	98.82	42.52	2.18	8.04	8.04	69
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	8,623	399	3,597	21.61	6.30	110.01	48.31	2.40	8.60	9.80	69
PD1140	Single-family	9,273	544	4,476	27.18	7.99	137.49	59.15	3.04	11.19	11.19	96
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	4,137	322	2,068	9.88	4.14	45.96	27.58	1.65	5.17	15.95	506
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	18,115	74	3,512	19.22	5.18	103.52	53.61	2.03	5.18	16.27	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	31,525	939	10,057	56.28	17.31	286.97	140.34	6.73	21.54	43.41	602

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
PD151	Single-family	15,068	883	7,274	44.16	12.99	223.42	96.12	4.94	18.19	18.19	156
	Multi-family	2,308	165	1,429	6.81	1.43	26.38	10.99	1.10	4.84	4.18	242
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	1,079	84	540	2.58	1.08	11.99	7.19	0.43	1.35	4.16	132
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	22,862	1,150	10,097	58.23	16.76	286.97	127.35	6.96	25.63	30.48	530
PD1686	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	5,456	390	3,377	16.11	3.38	62.35	25.98	2.60	11.43	9.87	572
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,924	396	3,662	17.67	3.80	70.74	30.33	2.76	11.85	11.19	572
PD227	Single-family	35,352	2,072	17,066	103.62	30.48	524.18	225.52	11.58	42.67	42.67	366
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	540	42	270	1.29	0.54	6.00	3.60	0.22	0.67	2.08	66
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	37,850	2,122	17,716	106.98	31.57	541.37	234.91	12.02	43.90	46.50	432
PD243	Single-family	47,812	2,803	23,082	140.14	41.22	708.93	305.01	15.66	57.70	57.70	495
	Multi-family	3,357	240	2,078	9.91	2.08	38.37	15.99	1.60	7.03	6.08	352
	Commercial	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Public	2,518	196	1,259	6.02	2.52	27.98	16.79	1.01	3.15	9.71	308
	Light Industrial	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	6,855	28	1,329	7.27	1.96	39.17	20.28	0.77	1.96	6.16	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	66,297	3,714	30,625	177.09	53.53	878.40	396.43	21.34	77.04	101.83	1,858
PD699	Single-family	33,903	1,987	16,367	99.37	29.23	502.70	216.28	11.11	40.92	40.92	351
	Multi-family	3,987	285	2,468	11.77	2.47	45.56	18.98	1.90	8.35	7.21	418
	Commercial	1,799	140	899	4.30	1.80	19.98	11.99	0.72	2.25	6.93	220
	Public	1,799	140	899	4.30	1.80	19.98	11.99	0.72	2.25	6.93	220
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	14,688	60	2,848	15.59	4.20	83.93	43.47	1.65	4.20	13.19	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	56,175	2,612	23,481	135.32	39.49	672.16	302.71	16.09	57.96	75.19	1,208
PORTU1	Single-family	31,585	1,852	15,248	92.58	27.23	468.33	201.49	10.35	38.12	38.12	327
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	40,148	164	7,784	42.61	11.47	229.42	118.80	4.51	11.47	36.05	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	71,733	2,015	23,032	135.18	38.70	697.74	320.29	14.85	49.59	74.17	327
SMB204	Single-family	18,255	1,070	8,813	53.51	15.74	270.68	116.46	5.98	22.03	22.03	189
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,469	6	285	1.56	0.42	8.39	4.35	0.16	0.42	1.32	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	19,724	1,076	9,098	55.07	16.16	279.08	120.80	6.15	22.45	23.35	189

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB206	Single-family	1,159	68	560	3.40	1.00	17.19	7.39	0.38	1.40	1.40	12
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,896	20	949	5.20	1.40	27.98	14.49	0.55	1.40	4.40	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,055	88	1,509	8.59	2.40	45.16	21.88	0.93	2.80	5.80	12
SMB211	Single-family	4,057	238	1,958	11.89	3.50	60.15	25.88	1.33	4.90	4.90	42
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	12,590	979	6,295	30.08	12.59	139.89	83.93	5.04	15.74	48.54	1,539
	Public	9,173	713	4,586	21.91	9.17	101.92	61.15	3.67	11.47	35.37	1,121
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	24,480	100	4,746	25.98	6.99	139.89	72.44	2.75	6.99	21.98	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	50,300	2,030	17,586	89.86	32.25	441.85	243.41	12.78	39.09	110.79	2,702
SMB213	Single-family	8,114	476	3,917	23.78	6.99	120.30	51.76	2.66	9.79	9.79	84
	Multi-family	6,505	465	4,027	19.20	4.03	74.34	30.98	3.10	13.63	11.77	681
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	490	2	95	0.52	0.14	2.80	1.45	0.05	0.14	0.44	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	15,108	942	8,039	43.51	11.16	197.44	84.18	5.81	23.56	22.00	765
SMB214	Single-family	1,449	85	699	4.25	1.25	21.48	9.24	0.47	1.75	1.75	15
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	7,834	32	1,519	8.31	2.24	44.76	23.18	0.88	2.24	7.03	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	9,283	117	2,218	12.56	3.49	66.25	32.42	1.35	3.99	8.78	15
SMB216	Single-family	7,824	459	3,777	22.93	6.74	116.01	49.91	2.56	9.44	9.44	81
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,875	24	1,139	6.24	1.68	33.57	17.39	0.66	1.68	5.28	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	13,699	483	4,916	29.17	8.42	149.58	67.30	3.22	11.12	14.72	81
SMB217	Single-family	6,954	408	3,357	20.38	6.00	103.12	44.36	2.28	8.39	8.39	72
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	3,427	14	664	3.64	0.98	19.58	10.14	0.38	0.98	3.08	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	10,382	422	4,022	24.02	6.97	122.70	54.51	2.66	9.37	11.47	72
BI655	Single-family	30,426	1,784	14,688	89.18	26.23	451.14	194.09	9.97	36.72	36.72	315
	Multi-family	4,406	315	2,728	13.01	2.73	50.36	20.98	2.10	9.23	7.97	462
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	11,751	48	2,278	12.47	3.36	67.15	34.77	1.32	3.36	10.55	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	46,583	2,146	19,694	114.66	32.31	568.64	249.85	13.38	49.31	55.25	776

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

		POLLUTANT LOADINGS (POUNDS PER YEAR)										
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
PD10961	Single-family	8,983	527	4,337	26.33	7.74	133.19	57.30	2.94	10.84	10.84	93
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	4,856	378	2,428	11.60	4.86	53.96	32.37	1.94	6.07	18.72	594
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,792	40	1,898	10.39	2.80	55.96	28.98	1.10	2.80	8.79	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	23,631	944	8,663	48.32	15.40	243.11	118.66	5.98	19.71	38.36	686
PD10962	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	1,079	84	540	2.58	1.08	11.99	7.19	0.43	1.35	4.16	132
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	6,465	106	1,584	8.29	2.62	42.77	23.13	1.04	2.89	9.00	132
PD122	Single-family	33,034	1,936	15,947	96.82	28.48	489.81	210.73	10.82	39.87	39.87	342
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	1,978	154	989	4.73	1.98	21.98	13.19	0.79	2.47	7.63	242
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	20,564	84	3,987	21.82	5.88	117.51	60.85	2.31	5.88	18.47	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	55,576	2,174	20,923	123.37	36.33	629.30	284.77	13.92	48.22	65.96	584
PD269	Single-family	65,777	3,856	31,755	192.80	56.70	975.32	419.61	21.55	79.39	79.39	680
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	2,698	210	1,349	6.44	2.70	29.98	17.99	1.08	3.37	10.40	330
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	2,938	210	1,819	8.67	1.82	33.57	13.99	1.40	6.16	5.32	308
	Open	19,584	80	3,797	20.78	5.60	111.91	57.95	2.20	5.60	17.59	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	90,997	4,356	38,719	228.70	66.82	1,150.78	509.54	26.22	94.51	112.69	1,318
SMB218	Single-family	7,534	442	3,637	22.08	6.49	111.71	48.06	2.47	9.09	9.09	78
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	5,386	22	1,044	5.72	1.54	30.78	15.94	0.60	1.54	4.84	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,920	464	4,681	27.80	8.03	142.49	64.00	3.07	10.63	13.93	78
SMB219	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	12,730	52	2,468	13.51	3.64	72.74	37.67	1.43	3.64	11.43	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	12,730	52	2,468	13.51	3.64	72.74	37.67	1.43	3.64	11.43	0
SMB220	Single-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	979	4	190	1.04	0.28	5.60	2.90	0.11	0.28	0.88	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	1,159	18	280	1.47	0.46	7.59	4.10	0.18	0.50	1.57	22

TABLE A-2
ANNUAL POLLUTANT LOADINGS FROM SANTA MONICA BAY CATCHMENTS

POLLUTANT LOADINGS (POUNDS PER YEAR)												
CATCHMENT	LAND USE	TSS	BOD5	COD	Total P	Soluble P	TKN	NO2+NO3	Total Cu	Total Pb	Total Zn	Oil&Grease
SMB221	Single-family	1,449	85	699	4.25	1.25	21.48	9.24	0.47	1.75	1.75	15
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	9,792	40	1,898	10.39	2.80	55.96	28.98	1.10	2.80	8.79	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	11,241	125	2,598	14.64	4.05	77.44	38.22	1.57	4.55	10.54	15
SMB222	Single-family	51,579	3,024	24,900	151.18	44.46	764.79	329.04	16.90	62.25	62.25	534
	Multi-family	3,357	240	2,078	9.91	2.08	38.37	15.99	1.60	7.03	6.08	352
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	180	14	90	0.43	0.18	2.00	1.20	0.07	0.22	0.69	22
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	5,246	375	3,247	15.49	3.25	59.95	24.98	2.50	10.99	9.49	550
	Open	20,074	82	3,892	21.30	5.74	114.71	59.40	2.25	5.74	18.03	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	80,436	3,734	34,208	198.31	55.71	979.82	430.61	23.32	86.24	96.54	1,457
SMB223	Single-family	30,136	1,767	14,548	88.33	25.98	446.84	192.25	9.87	36.37	36.37	312
	Multi-family	629	45	390	1.86	0.39	7.19	3.00	0.30	1.32	1.14	66
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	3,237	252	1,619	7.73	3.24	35.97	21.58	1.29	4.05	12.48	396
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	35,961	2,071	16,936	100.00	30.17	501.20	222.62	11.69	42.30	51.75	773
SMB224	Single-family	33,613	1,970	16,227	98.52	28.98	498.40	214.43	11.01	40.57	40.57	348
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	4,496	350	2,248	10.74	4.50	49.96	29.98	1.80	5.62	17.34	550
	Public	1,978	154	989	4.73	1.98	21.98	13.19	0.79	2.47	7.63	242
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Open	4,406	18	854	4.68	1.26	25.18	13.04	0.49	1.26	3.96	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	44,494	2,492	20,319	118.66	36.71	595.52	270.63	14.10	49.92	69.49	1,139
SMB225	Single-family	34,772	2,038	16,787	101.92	29.98	515.59	221.82	11.39	41.97	41.97	360
	Multi-family	3,777	270	2,338	11.15	2.34	43.17	17.99	1.80	7.91	6.83	396
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	5,456	390	3,377	16.11	3.38	62.35	25.98	2.60	11.43	9.87	572
	Open	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	44,005	2,698	22,502	129.18	35.69	621.10	265.79	15.79	61.31	58.67	1,327
SMB226	Single-family	7,534	442	3,637	22.08	6.49	111.71	48.06	2.47	9.09	9.09	78
	Multi-family	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Commercial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Public	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Light Industrial	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Other Urban	23,082	1,649	14,289	68.15	14.29	263.79	109.91	10.99	48.36	41.77	2,418
	Open	1,958	8	380	2.08	0.56	11.19	5.80	0.22	0.56	1.76	0
	Unknown	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Catchment Total	32,574	2,098	18,305	92.31	21.34	386.69	163.77	13.68	58.01	52.62	2,496

This appendix describes the data collection of 15 small data sets which were used in building the overall compiled larger data set (Data Set A). A description of the Santa Monica Bay Urban Runoff Database (SMBURD) and summary of the average dry and wet weather contaminants concentrations for 22 selected locations of Santa Monica Bay Watershed are also included.

9.1 DATA COLLECTION

Data were collected or obtained from others for this study for major Los Angeles storm drains during both storm-flow and low-flow discharge. The period of observation for the various data sets ranged from November 20, 1967 and December 4, 1990. Trace metal concentrations and organic chemical concentrations in the discharge (runoff) are reported and analyzed. Table B-1 summarizes 15 data sets characterizing inputs to Santa Monica Bay. Some of the data sets are parts of reports and some are raw data sets. Several data sets have many observations and were useful in building our overall data set describing inputs to the Bay. Data sets which have no value for this project are excluded. Detailed descriptions of these 15 data sets are given in Section 9.2.

There are 42,370 observations in the final data set named "Data Set A" which includes data sets from 9 different sources with 47 sampling locations covering much of the Santa Monica Bay Watershed. Table B-2 gives the location (longitude and latitude) of these 47 sampling locations. A general description of the completed Data Set A is given in Table B-3. A smaller data set named "Data Set B" which includes 22 STORET parameters and is sorted by STORET code was extracted from Data Set A. This data set includes observations of special interest, or for locations which had a sufficient number of observations to warrant statistical analysis. A description of these 22 STORET parameters is shown in Table B-4. Rainfall data for ten National Weather Service gages which are in or near the Santa Monica Bay Watershed were used to separate samples from Data Set B which were not explicitly know to be "wet" or "dry". A value of 0.2 inches of rain was used as the difference between a "wet" and "dry" day. Results of "wet" and "dry" data are summarized in Section 9.3.

9.2 DATA DESCRIPTION

An IBM compatible PC program named SMBURD for IBM compatible PC was written and can be used to extract data from the final data set - Data Set A. Figure B-1 is a flowchart which illustrates the main features of SMBURD Program. The installation procedures of SMBURD ver 1.01 for most IBM compatible PCs and a description of SMBURD's output data format are described below. An output sample format at SMBURB is shown in Table B-5.

Table B-1. Status of Individual Data Sets

Source Number	Agency	Data Set or Report Name	Status Code
1	City of Los Angeles and Engineering Science	Santa Monica Bay Stormwater Pollutant Reduction Study	1
2	Science Applications International Corporation (SAIC)	Santa Monica Bay Coliform Database	2
3	California Regional Water Quality Control Board	Surface Water Quality Survey - Santa Monica Bay Input	1
4	County of Los Angeles, Department of Health Services	Advisory Warning - Discharges from Storm Drains into Santa Monica Bay	1
5	Santa Monica Bay Restoration Project	An Assessment of Inputs of Fecal Indicator Organisms and Human Enteric Viruses From Two Santa Monica Storm Drains	1
6	SCCWRP	Stormwater Runoff Program	1
7	NOAA	The National Pollutant Discharge Inventory	2
8	California Regional Water Quality Control Board	NPDES Monitoring Reports	2
9	County Sanitation Districts of LA County	Search for Mutagens and Carcinogens in Pico-Kenter Storm Drain	2
10	City of Santa Monica Department of Engineering	Ozone Pilot Plant Demonstration Project for Kenter Canyon Drain	1
11	Los Angeles County Department of Public Works	Los Angeles County Department of Public Works Surface Water Monitoring Program	1
12	National Park Service	Deposition and Processing of Airborne Nitrogen Pollutants in Mediterranean-Type Ecosystems of Southern California	1
13	State Water Resources Control Board	California State Mussel Watch	2
14	Hyperion Treatment Plant	Hyperion Treatment Plant's Coliform Data Set	2
15	US EPA ERLN Pacific Ecosystem Branch	Los Angeles River Loadings of Trace Metals and Synthetic Organics	1

Status Code Legend:

1 = included in the compiled data set

2 = not included in the compiled data set

Table B-2. 47 Sampling Locations in Santa Monica Bay Watershed.

Location Code	Latitude	Longitude	Station Name
1	34.06444	118.3547	BALLONA CREEK
2	34.04222	118.2661	FIGUEROA ST. & 12TH ST.
3	34.02694	118.2728	ADAMS & HOPE ST.
4	34.05083	118.3272	WINDSOR BLVD 500FT N. OF 12TH ST.
5	34.02917	118.3147	CIMARRON ST. & 29TH ST.
6	34.03488	118.3313	BRONSON AVE.
7	34.04278	118.6833	MALIBU CREEK @ CROSS CREEK RD
8	34.08472	118.7117	MALIBU CREEK @ SALVATION ARMY CAMP
9	34.04111	118.5800	TOPANGA CANYON CREEK U/S OF PCH(~1000')
10	34.02833	118.5178	SANTA MONICA CANYON @ PCH
11	33.98500	118.4125	CENTINELA CREEK @ CENTINELA AVE.
12	33.99000	118.4108	BALLONA CREEK @ INGLEWOOD AVE.
13	33.99222	118.4067	BALLONA CREEK @ SEPULVEDA CHANNEL
14	33.99222	118.4072	SEPULVEDA CHANNEL @ BALLONA CREEK
15	34.01528	118.4264	SAWTELLE CHANNEL ABOVE SEPULVEDA CHANNEL
16	34.01556	118.4267	SEPULVEDA CHANNEL ABOVE SAWTELLE CHANNEL
17	34.01611	118.3892	BENEDICT CANYON CHANNEL @ BALLONA CREEK
18	34.02306	118.3675	JEFFERSON BLVD DRAIN @ BALLONA CREEK
19	34.03333	118.3742	LA CIENAGA BLVD DRAIN @ BALLONA CREEK
20	34.03833	118.3678	BALLONA CREEK @ FAIRFAX AVE.
21	34.00556	118.4908	PICO-KENTER OUTFALL
22	33.99667	118.4842	ASHLAND AVE STORM DRAIN OUTFALL
23	33.96083	118.4583	BALLONA CREEK OUTFALL
24	34.00889	118.4956	SANTA MONICA PIER STORM DRAIN OUTFALL
25	33.93056	118.4358	IMPERIAL HWY STORM DRAIN OUTFALL
26			AINSWORTH STORM DRAIN OUTFALL
27	33.83611	118.3894	AVENUE I STORM DRAIN
28	34.02806	118.5189	SANTA MONICA CANYON STORM DRAIN OUTFALL
29	34.03813	118.5414	PULGA CANYON STORM DRAIN OUTFALL
30	33.99667	118.4842	ASHLAND AVE U/S OF OUTFALL
31	34.00639	118.4911	PICO-KENTER U/S OF OUTFALL
32			DEER CANYON CREEK
33	34.04592	118.9055	LA CHUSA CANYON CREEK
34	34.03856	118.8425	TRANCAS CANYON CREEK
35	34.02426	118.7865	RAMIREZ CANYON CREEK
36	34.03466	118.7435	SOLSTICE CANYON CREEK
37	34.03553	118.7326	CORRAL CANYON CREEK
38	34.03778	118.6481	CARBON CANYON CREEK
39	34.00556	118.4908	PICO-KENTER DRAIN
40	34.09184	118.5686	UPPER SANTA YNEZ CANYON CREEK
41	33.99667	118.4022	BALLONA CRK @ SAWTELLE BLVD
42	33.98500	118.4119	CENTINELA CRK @ CENTINELA BLVD
43	34.70000	118.7331	CORAL CANYON CRK @ PCH
44	34.00056	118.8056	DUME CRK @ ZUMA BEACH
45	34.02917	118.5158	SANTA MONICA CANYON CHANNEL @ SHORT ST.
46	33.99222	118.4072	SEPULVEDA CHANNEL @ CULVER BLVD
47	33.87245	118.33232	I-405 FREEWAY @ REDONDO BEACH BLVD

Note: Blank Latitude and Longitude means missing data

Table B-3. General Description of the Completed Data Set A.

LOCATION NAME	LATITUDE	LONGITUDE	Number of Observation	Number Below Detection	Number of Different Parameters	Day of First Observation	Day of Last Observation	Location Code
ADAMS & HOPE ST.	34.02694	118.27278	546	439	73	26-Feb-88	25-Nov-88	3
AINSWORTH STORM DRAIN OUTFALL			27	0	3	21-Jul-86	18-Sep-86	26
ASHLAND AVE STORM DRAIN OUTFALL	33.99667	118.48417	25	0	3	21-Jul-86	18-Sep-86	22
ASHLAND AVE U/S OF OUTFALL	33.99667	118.48417	44	0	3	10-Aug-89	29-Sep-89	30
AVENUE I STORM DRAIN	33.83611	118.38944	27	0	3	21-Jul-86	18-Sep-86	27
BALLONA CREEK	34.06444	118.35472	1228	771	86	28-Nov-70	24-Jul-88	1
BALLONA CREEK @ FAIRFAX AVE.	34.03833	118.36778	8267	1123	130	16-Oct-74	5-Dec-90	20
BALLONA CREEK @ INGLEWOOD AVE.	33.99000	118.41083	1076	417	167	28-Nov-70	6-Feb-90	12
BALLONA CREEK @ SEPULVEDA CH'NL	33.99222	118.40667	39	38	39	11-Dec-86	11-Dec-86	13
BALLONA CREEK OUTFALL	33.96083	118.45833	25	0	3	21-Jul-86	18-Sep-86	23
BALLONA CRK @ SAWTELLE BLVD	33.99667	118.40222	14441	1218	125	20-Nov-67	5-Dec-90	41
BENEDICT CYN CH'NL @ BALLONA CREEK	34.01611	118.38917	39	39	39	20-Apr-87	20-Apr-87	17
BRONSON AVE.	34.03488	118.33125	643	533	73	27-Feb-88	23-Nov-88	6
CARBON CYN CREEK	34.03778	118.64806	1	0	1	25-Mar-82	25-Mar-82	38
CENTINELA CREEK @ CENTINELA AVE.	33.98500	118.41250	1593	245	86	16-Apr-69	23-Jun-87	11
CENTINELA CRK @ CENTINELA BLVD	33.98500	118.41194	1656	977	59	11-May-88	7-Sep-90	42
CIMARRON ST. & 29TH ST.	34.02917	118.31472	721	609	73	28-Feb-88	25-Nov-88	5
CORAL CYN CRK @ PCH	34.70000	118.73306	133	24	19	10-Jan-90	11-Jul-90	43
CORRAL CYN CREEK	34.03553	118.73255	1	0	1	25-Mar-82	25-Mar-82	37
DEER CYN CREEK			1	0	1	25-Mar-82	25-Mar-82	32
DUME CRK @ ZUMA BEACH	34.00056	118.80566	40	7	20	11-May-88	16-Jun-88	44
FIGUEROA ST. & 12TH ST.	34.04222	118.26611	701	573	73	27-Feb-88	14-Apr-88	2
IMPERIAL HWY STORM DRAIN OUTFALL	33.93056	118.43583	27	0	3	21-Jul-86	18-Sep-86	25
I-405 FREEWAY @ REDONDO BEACH BLVD	33.87245	118.33232	380	24	12	11-Jan-81	19-Mar-81	47
JEFFERSON BLVD DRAIN @ BALLONA CREEK	34.02306	118.36750	39	35	39	11-Jun-87	11-Jun-87	18
LA CHUSA CYN CREEK	34.04592	118.90549	1	0	1	25-Mar-82	25-Mar-82	33
LA CIENAGA BLVD DRAIN @ BALLONA CREEK	34.03333	118.37417	39	39	39	11-Jun-87	11-Jun-87	19
MALIBU CREEK @ CROSS CREEK RD	34.04278	118.68333	1266	722	172	15-Dec-86	5-Jun-90	7
MALIBU CREEK @ SALVATION ARMY CAMP	34.08472	118.71167	80	80	41	23-Dec-86	3-May-88	8
PICO-KENTER DRAIN	34.00556	118.49083	3208	360	8	20-Nov-89	19-Nov-90	39
PICO-KENTER OUTFALL	34.00556	118.49083	45	26	31	11-Apr-71	18-Sep-86	21
PICO-KENTER U/S OF OUTFALL	34.00639	118.49111	1723	954	61	11-May-88	7-Sep-90	31
PULGA CYN STORM DRAIN OUTFALL	34.03813	118.54141	27	0	3	21-Jul-86	18-Sep-86	29
RAMIREZ CYN CREEK	34.02426	118.78646	1	0	1	25-Mar-82	25-Mar-82	35
SANTA MONICA CYN @ PCH	34.02833	118.51778	39	39	39	23-Dec-86	23-Dec-86	10
SANTA MONICA CYN CH'NLL @ SHORT ST.	34.02917	118.51583	988	382	36	11-May-88	7-Sep-90	45

Table B-3. General Description of the Completed Data Set A (cont'd).

LOCATION NAME	LATITUDE	LONGITUDE	Number of Observation	Number Below Detection	Number of Different Parameters	Day of First Observation	Day of Last Observation	Location Code
SANTA MONICA CYN STORM DRAIN	34.02806	118.51889	27	0	3	21-Jul-86	18-Sep-86	28
SANTA MONICA PIER STORM DRAIN	34.00889	118.49556	27	0	3	21-Jul-86	18-Sep-86	24
SAWTELLE CH'NL ABOVE SEPULVEDA CH'NL	34.01528	118.42639	80	79	41	23-Jun-87	14-Apr-88	15
SEPULVEDA CH'NL @ BALLONA CREEK	33.99222	118.40722	284	279	148	11-Dec-86	6-Feb-90	14
SEPULVEDA CH'NL @ CULVER BLVD	33.99222	118.40722	1307	617	47	11-May-88	7-Sep-90	46
SEPULVEDA CH'NL ABOVE SAWTELLE CH'NL	34.01556	118.42667	80	80	41	23-Jun-87	14-Apr-88	16
SOLSTICE CYN CREEK	34.03466	118.74349	1	0	1	25-Mar-82	25-Mar-82	36
TOPANGA CYN CREEK U/S OF PCH(~1000')	34.04111	118.58000	1034	485	77	23-Dec-86	7-Sep-90	9
TRANCAS CYN CREEK	34.03856	118.84245	1	0	1	25-Mar-82	25-Mar-82	34
UPPER SANTA YNEZ CYN CREEK	34.09184	118.56860	1	0	1	25-Mar-82	25-Mar-82	40
WINDSOR BLVD 500FT N. OF 12TH ST.	34.05083	118.32722	391	318	73	27-Feb-88	27-Sep-88	4

Table B-4. 22 STORET Parameters in Data Set B.

STORET Code	STORET Parameter Description
1027	Cadmium, Total ($\mu\text{g/L}$ as Cd)
1042	Copper, Total ($\mu\text{g/L}$ as Cu)
1051	Lead, Total ($\mu\text{g/L}$ as Pb)
1092	Zinc, Total ($\mu\text{g/L}$ as Zn)
310	BOD, 5 Day, 20°C ($\mu\text{g/L}$)
340	COD, 0.25 N $\text{K}_2\text{Cr}_2\text{O}_7$ ($\mu\text{g/L}$)
403	pH, Lab, Standard Unit (SU)
515	Residue, Total Filtrable (Dried at 105°C) ($\mu\text{g/L}$)
550	Oil and Grease (Soxhlet Extraction) Total, Rec., ($\mu\text{g/L}$)
608	Nitrogen, Ammonia, Dissolved ($\mu\text{g/L}$ as N)
615	Nitrite Nitrogen, Total ($\mu\text{g/L}$ as N)
620	Nitrate Nitrogen ($\mu\text{g/L}$ as N)
650	Phosphate, Total ($\mu\text{g/L}$ as PO_4)
680	Carbon, Total Organic ($\mu\text{g/L}$ as C)
95	Specific Conductance ($\mu\text{mhos/cm}$ @ 25°C)
31505	Coliform, Tot, MPN, Confirmed Test, 35°C (Tube 31506)
530	Residue, Total Nonfiltrable ($\mu\text{g/L}$)
31615	Fecal Coliform, MPN, EC Med, 44.5°C (Tube 31614)
610	Nitrogen, Ammonia, Total ($\mu\text{g/L}$ as N)
31616	Fecal Coliform, Mbr Filter, M-FC Broth, 44.5°C
70507	Phosphorus, in Total Orthophosphate ($\mu\text{g/L}$ as P)
31673	Fecal Streptococci, Mbr Filt, KF Agar, 35°C, 48 hours

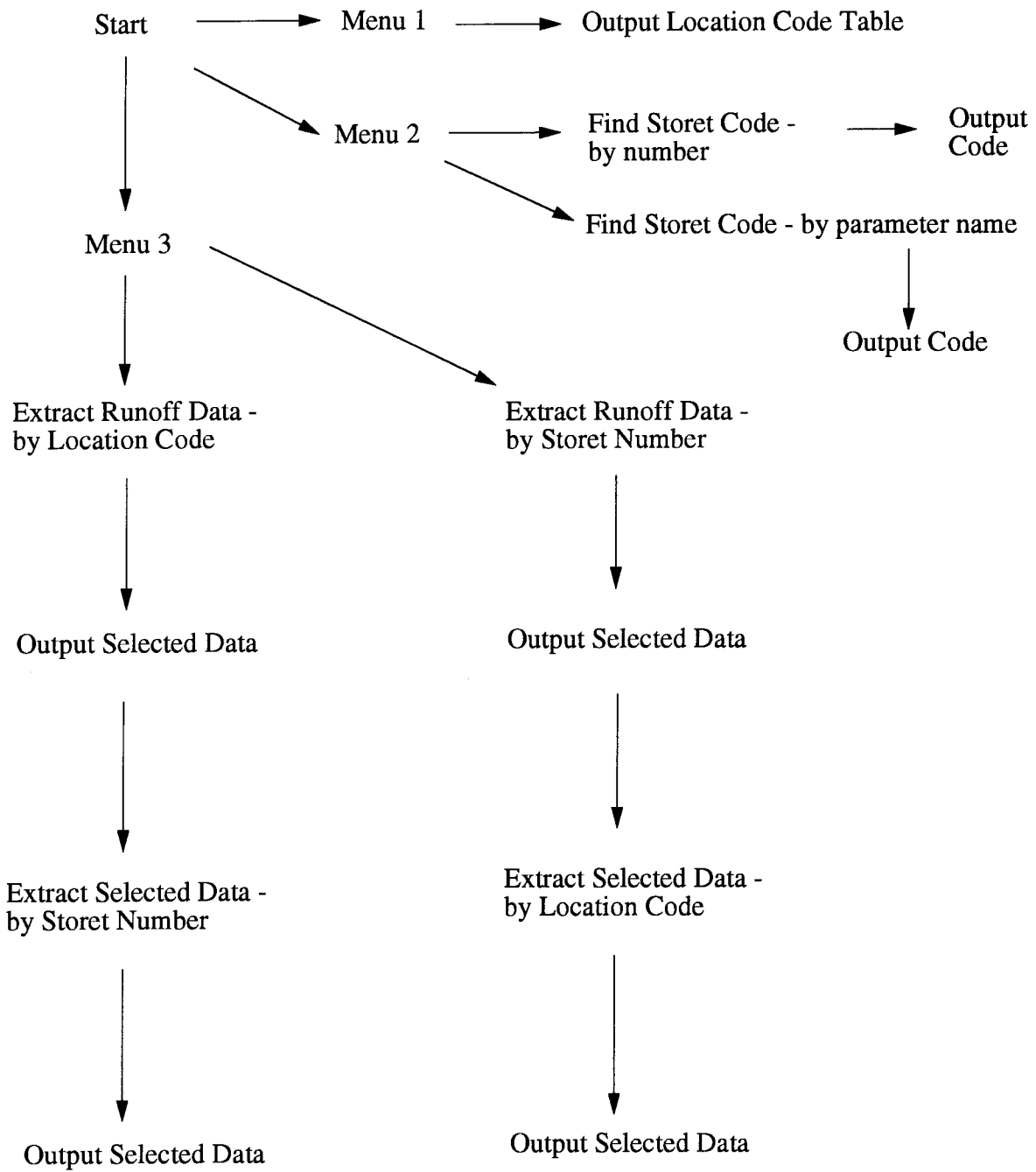


Figure B-1. Overview of SMB Runoff Program.

Table B-5 Output Sample Format of SMBURD ver 1.01

Storet	Concentrat.	Detect.	L.	Date	Time	So.	M.	Q.	St.	Flow	Interval	Mas
1025	20.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
1049	710.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
1090	2200.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
530	166000.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
515	417000.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
340	478000.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
71851	1300.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
612	4600.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
625	1700.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
85313	.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
71886	730.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0
1022	900.000	-2.000	47	11JAN81	-2	3	1	1	1	-2.00	-2.00	-2.0

Note Variable names are not included in the output data files. Some of the above variable names are abbreviated.

9.2.1 Santa Monica Bay Urban Runoff Database (SMBURD) Program Installation

To install SMBURD 1.01 from the disk drive

1. Create a sub-directory on the hard drive.
For example, at the command prompt C:\, type **md smburd** and press ENTER.
2. Insert the SMBURD 1.1 disk into a floppy drive, and change to the drive letter of the floppy drive.
For example, to switch to the A drive, at the command prompt A:\ and press ENTER.
3. At the command prompt A:\, copy all files to the hard disk.
For example, at the command prompt A:\, type **copy *.* C:\smburd** and press ENTER.
4. Uncompress the data file named file.zip using pkunzip.exe.
For example, at the command prompt C:\smburd, type **pkunzip file.zip** and press ENTER.

Running the SMBURD Program

1. Type Runoff and press ENTER. A series of menu will be presented.

```
SANTA MONICA BAY URBAN RUNOFF DATABASE PROGRAM
                          Version 1.01
***** WELCOME TO MAIN MENU *****
*****
* Menu  1: Location Code Menu          *
* Menu  2: Storet Code Menu            *
* Menu  3: S.M.B. Runoff database Menu *
* Menu  4: Return back to DOS         *
*****
```

Menu 1: To view the Location Name, Location Code, Latitude and Longitude.

Menu 2: To view the Storet Code and its description.

Menu 3: To view the SMB Runoff Database.

Note: There are 42,370 observations and 13 variables in each observation. Each variable is separated by one or more blank space. Variables are output in the following order: Storet, Concentration, Detection Limit, Location Code, Date, Time, Source, Method, Quality, Storm, Flow rate, Interval, Mass.

2. Format:

Concentration: Most of the data in this database are in $\mu\text{g/L}$.

For bacteria, use MPN or CFU per 100 ml.

- MPN = Most Probable Number - statistical method. (Most of the data)

- CFU = Colify Forming Units - actual count of cells. (SMBRP data)

Detection Limit: in $\mu\text{g/L}$.

Time: Hour:min. Example, 1310 = 1:10 pm.

Source: See attached sheet

Method: 1 = Grab Sample; 2 = Composite Sample over 24 hours.

Quality: 1 = Best available data; 2 = Medium; 3 = Lowest.

Storm: 0 = Dry weather flow conditions; 1 = Wet weather flow conditions;
2 = Not specified.

Flow rate: Units are in CMS (cubic meters per sec).

Interval: To be used with flow rate.

Mass: Units are in grams. $\text{Mass} = \text{Concentration} * \text{Flow rate} * \text{Interval}$.

Note: Variable = -2 or -2.000 means missing data.

Concentration = -1 or -0.000 means not detected.

9.3 RESULTS AND DATA ANALYSIS

9.3.1 Wet and Dry Data Analysis

Twenty-two STORET parameters have been selected and merged with rainfall data from ten National Weather Service gages in order to extract true “wet” weather data from Data Set A which has unspecified “storm” or “no storm” conditions. A new variable NSTORM (NSTORM = 1) is used to indicate the additional “wet” weather data extracted from Data Set A. As a result, an additional 829 “wet” weather observations are gained to give a total of 1,129 “wet” weather observations for the 22 selected STORET parameters. Statistical analysis is performed on these “wet” weather data and the results are shown in Table B-6.

In addition to the “wet” weather data, “dry” weather data were also extracted from Data Set A and statistical analysis is also performed on these data (Table B-7). Statistical analysis can only be done on limited locations as there is insufficient number of observations on most sampling locations to warrant this analysis.

9.3.2 Sample Histograms

As mentioned in the above sections, Data Set B consists of the extracted data of 22 different STORET parameters in 47 sampling locations of Santa Monica Bay Watershed. Based on the obtained results (“wet” and “dry” weather data), histogram was plotted for each STORET parameters (Figures B-2 -23).

Table B-6. Statistical Analysis of Wet Weather Data.

STORET #	N	MEAN	MAX	MIN	STD DEV	SUM	VAR	USS	CSS	STD MEAN	Percentile			
											0.25	0.50	0.75	0.90
Location = 1														
31505	9	154,444	620,000	0	194,686	1,390,000	3.79E+10	5.18E+11	3.03E+11	64,896	30,000	60,000	230,000	620,000
550	9	8,222	23,000	0	8,228	74,000	6.77E+07	1.15E+09	5.42E+08	2,743	1,000	8,000	14,000	23,000
680	9	27,444	106,000	0	32,573	247,000	1.06E+09	1.53E+10	8.49E+09	10,858	2,500	21,000	36,500	106,000
Location = 5														
1042	1	60	60	60	0	60	0	3.60E+03	0.00E+00	0	60	60	60	
1051	1	370	370	370	0	370	0	1.37E+05	0.00E+00	0	370	370	370	370
1092	1	420	420	420	0	420	0	1.76E+05	0.00E+00	0	420	420	420	420
1027	1	0	0	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0
515	2	143,500	274,000	13,000	184,555	287,000	3.41E+10	7.52E+10	3.41E+10	130,500	13,000	143,500	274,000	274,000
550	2	2,900	3,300	2,500	566	5,800	3.20E+05	1.71E+07	3.20E+05	400	2,500	2,900	3,300	3,300
Location = 11														
310	2	22,000	22,000	22,000	0	44,000	0.00E+00	9.68E+08	0.00E+00	0	22,000	22,000	22,000	22,000
31616	1	16,000	16,000	16,000	0	16,000	0.00E+00	2.56E+08	0.00E+00	0	16,000	16,000	16,000	16,000
340	2	101,000	101,000	101,000	0	202,000	0.00E+00	2.04E+10	0.00E+00	0	101,000	101,000	101,000	101,000
403	2	8	8	8	0	16	0.00E+00	1.25E+02	0.00E+00	0	8	8	8	8
610	2	540	540	540	0	1,080	0.00E+00	5.83E+05	0.00E+00	0	540	540	540	540
620	2	1,130	1,130	1,130	0	2,260	0.00E+00	2.55E+06	0.00E+00	0	1,130	1,130	1,130	1,130
70507	2	210	260	160	71	420	5.00E+03	9.32E+04	5.00E+03	50	160	210	260	260
95	2	1,940	1,940	1,940	0	3,880	0.00E+00	7.53E+06	0.00E+00	0	1,940	1,940	1,940	1,940
Location = 12														
1027	30	5	26	0	8	163	5.68E+01	2.53E+03	1.65E+03	1	1	2	7	22
1042	30	116	860	18	173	3,487	2.99E+04	1.27E+06	8.67E+05	32	42	56	114	352
1051	30	1,065	7,140	0	1,793	31,957	3.21E+06	1.27E+08	9.32E+07	327	92	211	1,455	2,939
1092	30	939	4,640	82	1,285	28,161	1.65E+06	7.43E+08	4.79E+07	235	265	377	890	3,936
31505	19	741,179	7,000,000	0	1,623,806	14,082,400	2.64E+12	5.79E+13	4.75E+12	372,527	60,000	230,000	620,000	2,400,000
340	17	264,412	886,000	50,000	235,045	4,495,000	5.53E+10	2.07E+12	8.84E+11	57,007	66,500	152,000	437,000	621,200
515	36	351,833	2,498,000	13,000	473,867	12,666,000	2.25E+11	1.23E+13	7.86E+12	78,978	96,250	199,000	383,000	934,100
530	6	1,744,500	5,741,000	53,000	2,228,889	10,467,000	4.97E+12	4.31E+13	2.48E+13	909,940	67,250	925,500	3,497,750	5,741,000

Table B-6. Statistical Analysis of Wet Weather Data (cont'd).

STORET #	N	MEAN	MAX	MIN	STD DEV	SUM	VAR	USS	CSS	STD MEAN	Percentile			
											0.25	0.50	0.75	0.90
Loaction = 20														
1027	6	5	8	3	2	30	5.60E+00	1.78E+02	2.80E+01	1	3	4	8	8
1042	3	177	300	110	107	530	1.14E+04	1.17E+05	2.29E+04	62	110	120	300	300
1051	2	495	640	350	205	990	4.21E+04	5.32E+05	4.21E+04	145	350	495	640	640
1092	3	560	1,250	110	607	1,680	3.68E+05	1.68E+06	7.36E+05	350	110	320	1,250	1,250
310	6	22,333	38,000	12,000	12,340	134,000	1.52E+08	3.75E+09	7.61E+08	5,038	12,000	17,000	38,000	38,000
31616	3	7,733	12,200	5,000	3,900	23,200	1.52E+07	2.10E+08	3.04E+07	2,252	5,000	6,000	12,200	12,200
403	40	7	8	7	0	285	1.21E-01	2.03E+03	4.73E+00	0	7	7	7	8
530	14	133,571	402,000	57,000	116,658	1,870,000	1.36E+10	4.27E+11	1.77E+11	31,178	60,000	108,000	128,000	402,000
610	6	410	620	180	197	2,460	3.90E+04	1.20E+06	1.95E+05	81	180	430	620	620
620	6	1,797	3,000	1,150	933	10,780	8.70E+05	2.37E+07	4.35E+06	381	1,150	1,240	3,000	3,000
95	42	295	1,190	56	330	12,404	1.09E+05	8.12E+06	4.46E+06	51	87	170	270	943
Location = 32														
620	1	4	4	4	0	4	0.00E+00	1.60E+01	0.00E+00	0	4	4	4	4
Location = 33														
620	1	4	4	4	0	4	0.00E+00	1.60E+01	0.00E+00	0	4	4	4	4
Location = 34														
620	1	5	5	5	0	5	0.00E+00	2.50E+01	0.00E+00	0	5	5	5	5
Location = 35														
620	1	190	190	190	0	190	0.00E+00	3.61E+04	0.00E+00	0	190	190	190	190
Location = 36														
620	1	57	57	57	0	57	0.00E+00	3.25E+03	0.00E+00	0	57	57	57	57
Location = 37														
620	1	9	9	9	0	9	0.00E+00	8.10E+01	0.00E+00	0	9	9	9	9
Location = 38														
620	1	150	150	150	0	150	0.00E+00	2.25E+04	0.00E+00	0	150	150	150	150
Location = 40														
620	1	35	35	35	0	35	0.00E+00	1.23E+03	0.00E+00	0	35	35	35	35

Table B-6. Statistical Analysis of Wet Weather Data (cont'd).

STORET #	N	MEAN	MAX	MIN	STD DEV	SUM	VAR	USS	CSS	STD MEAN	Percentile			
											0.25	0.50	0.75	0.90
Location = 41														
1027	38	15	30	1	15	554	1.70E+02	1.44E+04	6.30E+03	2	3	5	30	30
1042	19	41	120	19	28	782	7.94E+02	4.65E+04	1.43E+04	6	20	31	50	88
1051	18	96	500	10	132	1,728	1.74E+04	4.61E+05	2.96E+05	31	48	50	86	410
1092	19	368	1,000	60	269	6,990	7.24E+04	3.87E+06	1.30E+06	62	230	310	520	980
310	62	13,516	45,000	2,000	9,158	838,000	8.39E+07	1.64E+10	5.12E+09	1,163	6,000	12,000	17,000	25,700
31616	28	46,025	430,000	800	89,436	1,288,700	8.00E+09	2.75E+11	2.16E+11	16,902	5,525	13,500	33,250	137,000
340	42	70,762	132,000	15,000	29,439	2,972,000	8.67E+08	2.46E+11	3.55E+10	4,542	52,250	69,000	92,000	111,300
403	70	7	8	6	1	488	2.65E-01	3.42E+03	1.83E+01	0	7	7	7	8
530	34	152,529	476,000	24,000	97,963	5,186,000	9.60E+09	1.11E+12	3.17E+11	16,801	89,500	124,000	191,000	210,000
550	34	17,553	240,000	0	56,502	596,800	3.19E+09	1.16E+11	1.05E+11	9,690	2,000	4,000	4,500	10,000
608	24	533	1,500	10	486	12,780	2.36E+05	1.22E+07	5.43E+06	99	93	445	908	1,300
610	40	344	1,630	0	461	13,770	2.13E+05	1.30E+07	8.30E+06	73	0	119	583	1,090
615	10	342	1,000	60	382	3,420	1.46E+05	2.48E+06	1.31E+06	121	83	90	603	1,000
620	58	1,283	4,290	0	1,210	74,388	1.46E+06	1.79E+08	8.35E+07	159	508	900	1,783	3,280
680	18	24,956	42,000	13,500	9,037	449,200	8.17E+07	1.26E+10	1.39E+09	2,130	19,300	24,000	28,625	42,000
70507	21	299	910	10	236	6,270	5.56E+04	2.98E+06	1.11E+06	51	90	260	425	676
95	80	264	2,100	65	350	21,120	1.22E+05	1.52E+07	9.66E+06	39	99	155	237	636
Location = 47														
340	31	181,806	724,000	23,000	192,502	5,636,000	3.71E+10	2.14E+12	1.11E+12	34,574	53,000	111,000	220,000	535,600
515	32	123,281	461,000	16,000	115,989	3,945,000	1.35E+10	9.03E+11	4.17E+11	20,504	45,250	83,500	158,750	357,100
530	33	1,292,576	15,800,000	18,000	3,611,894	42,655,000	1.31E+13	4.73E+14	4.18E+14	628,750	41,000	102,000	256,500	3,956,000

Note: Refer to Tables B-2 and B-4 for the description of location codes and storet numbers, respectively.

Table B-7. Statistical Analysis of Dry Weather Data.

Storet Number	No. of value	Mean	Standard Dev.	Min. Value	Max. Value	Std Error of Mean	Sum	Variance	C.V
Location = 21									
31505	11	6,531	7,608	80	24,000	2,294	71,840	5,788,589	116
Location = 31									
1027	29	8	25	0	110	5	220	605	324
1042	29	35	53	0	230	10	1,014	2,765	150
1051	29	68	116	0	460	22	1,975	13,458	170
1067	27	6	22	0	110	4	170	493	353
1092	29	71	77	0	370	14	2,070	5,962	108
310	29	8,548	20,414	0	99,000	3,791	247,900	416,716,872	239
31505	29	318,732	633,812	230	3,300,000	117,696	9,243,230	4.02E+11	199
31615	29	16,567	29,561	20	130,000	5,489	480,430	873,874,823	178
31616	15	19,020	24,179	783	75,991	6,243	285,292	584,624,313	127
530	29	2,456,103	3,686,927	486,000	20,024,000	684,645	71,227,000	1.36E+13	150
550	29	2,519	3,231	0	11,900	600	73,040	10,438,069	128
610	29	903	901	0	3,760	167	26,190	811,960	100
615	29	159	515	0	2,600	96	4,600	264,848	324
620	29	1,514	1,113	0	3,820	207	43,890	1,239,094	74
650	29	549	435	60	2,250	81	12,940	189,055	79
680	29	5,171	6,728	0	23,030	1,249	149,970	45,264,720	130
Location = 39									
31505	417	1,519,199	3,492,048	3,300	54,000,000	171,006	633,505,800	1.22E+13	230
31615	417	171,222	688,394	4	79,000,000	33,711	71,399,751	4.74E+13	402
515	412	107,243	508,118	1,100	6,540,000	25,033	44,184,200	2.58E+10	474
530	414	818,887	864,055	231,000	8,909,000	42,466	339,019,000	7.46591E+11	106
680	413	19,695	15,334	2,260	115,000	755	8,134,170	235,127,808	78
Location = 22									
31505	10	12,210	12,436	17	24,000	3,933	122,096	154,660,919	102
31615	10	4,573	7,492	7	24,000	2,369	45,728	56,133,286	164
Location = 30									
31616	15	14,039	17,994	200	66,400	4,646	210,582	323,785,825	128

* Refer to Tables B-2 and B-4 for sampling location and STORET codes.

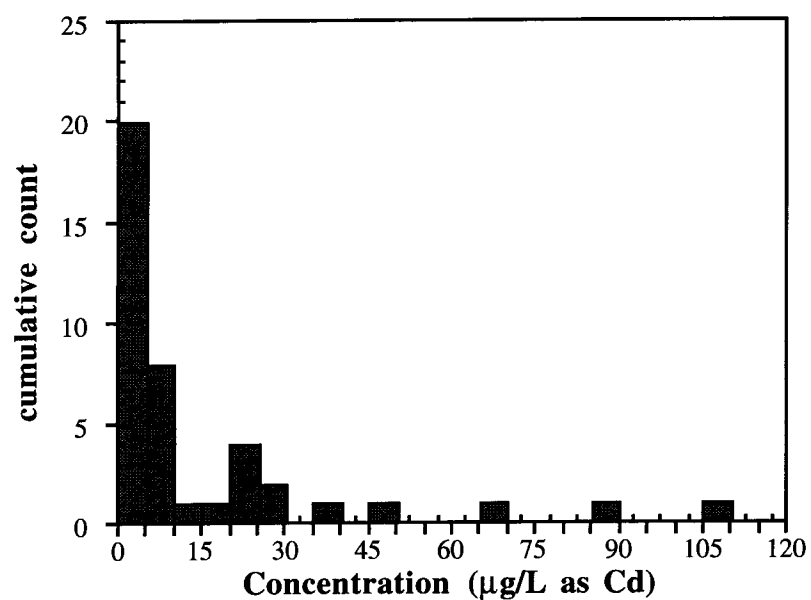


Figure B-2. Histogram Plot for STORET Code = 1027 (Cadmium, Total)

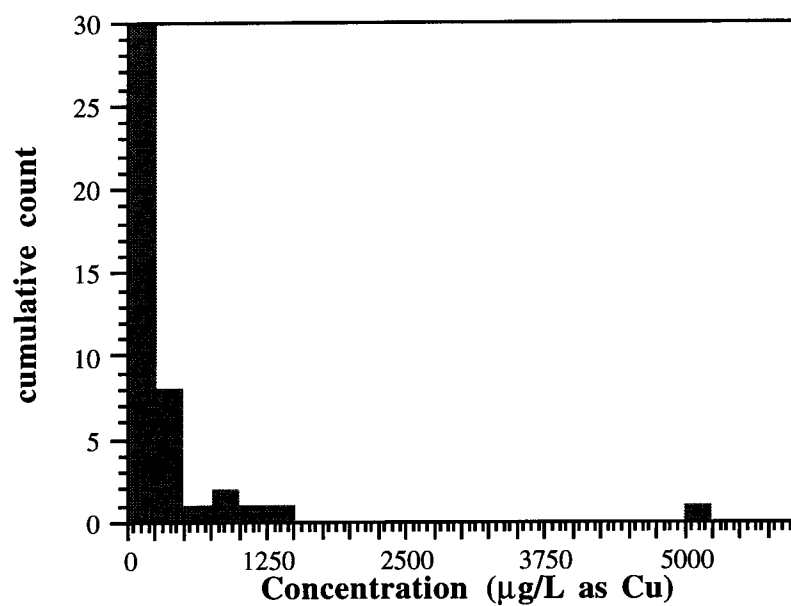


Figure B-3. Histogram Plot for STORET Code = 1042 (Copper, Total).

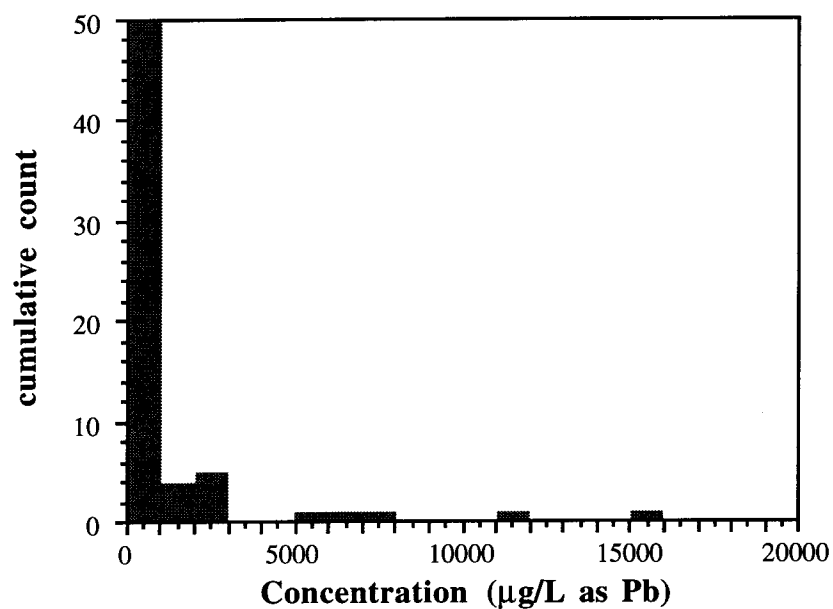


Figure B-4. Histogram Plot for STORET Code = 1051 (Lead, Total).

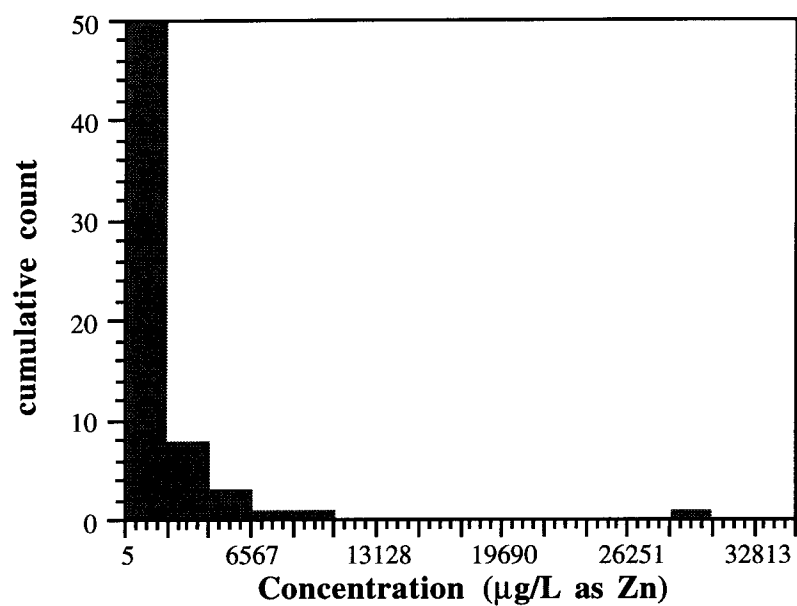


Figure B-5. Histogram Plot for STORET Code = 1092 (Zinc, Total).

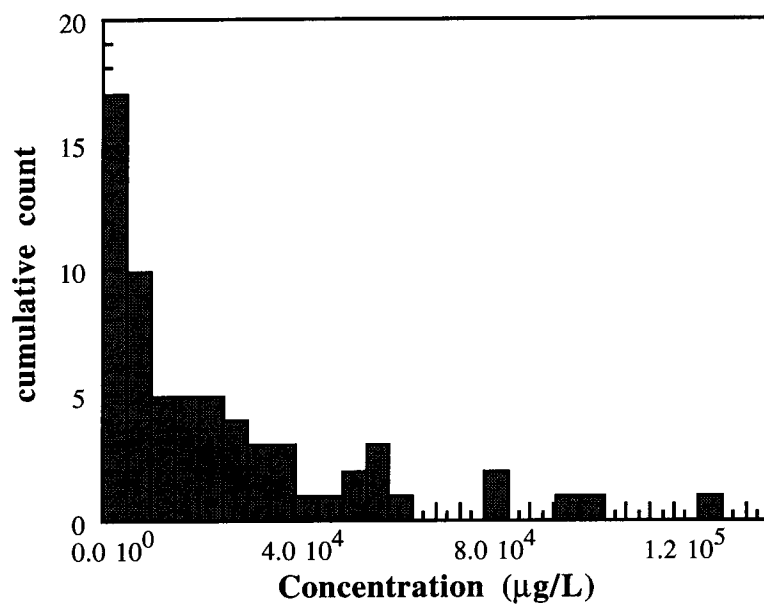


Figure B-6. Histogram Plot for STORET Code = 310 (BOD, 5 Day, 20°C).

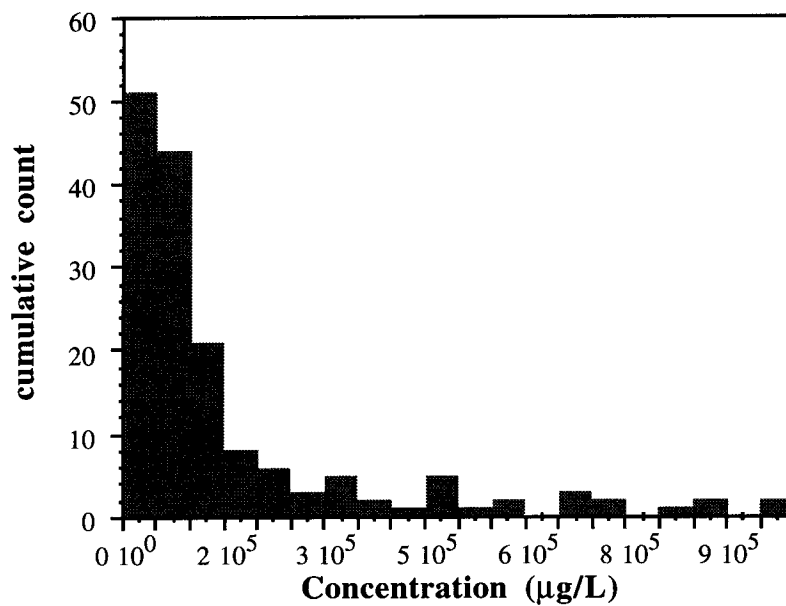


Figure B-7. Histogram Plot for STORET Code = 340 (COD, 0.25 N K₂Cr₂O₇).

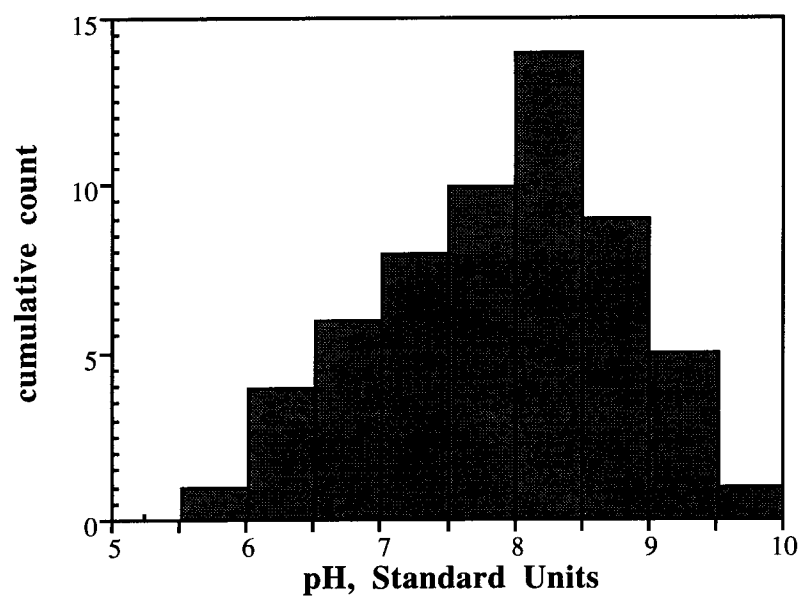


Figure B-8. Histogram Plot for STORET Code = 403 (pH, Lab).

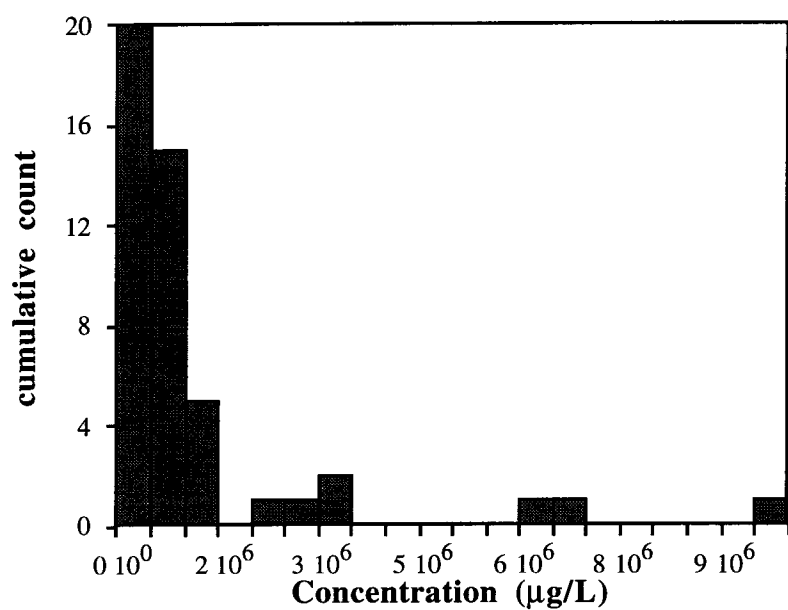


Figure B-9. Histogram Plot for STORET Code = 515 (Residue, Total Filtrable).

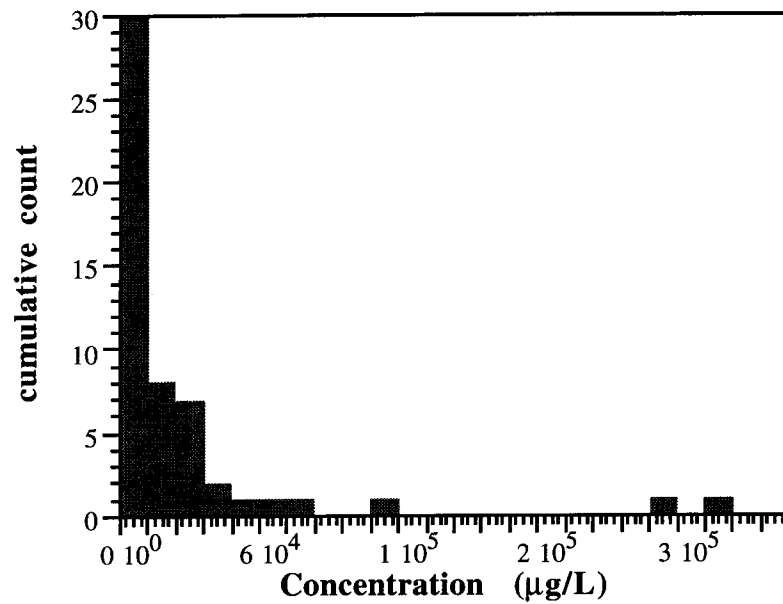


Figure B-10. Histogram Plot for STORET Code = 550 (Oil and Grease, Total).

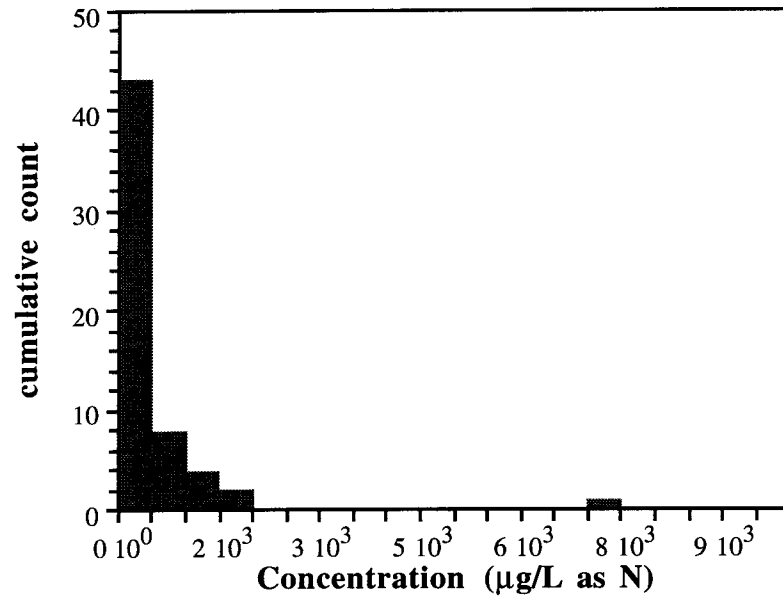


Figure B-11. Histogram Plot for STORET Code = 608 (Nitrogen, Ammonia, Dissolved).

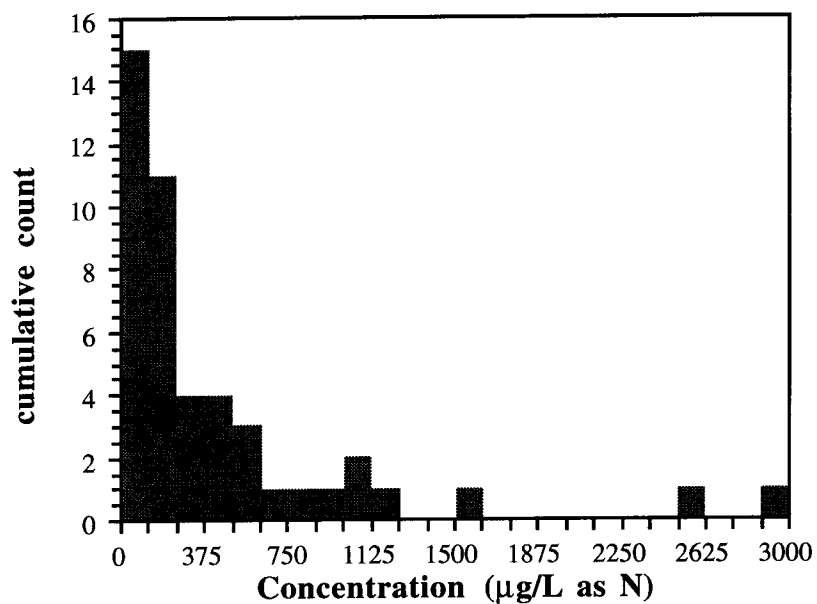


Figure B-12. Histogram Plot for STORET Code = 615 (Nitrite Nitrogen, Total).

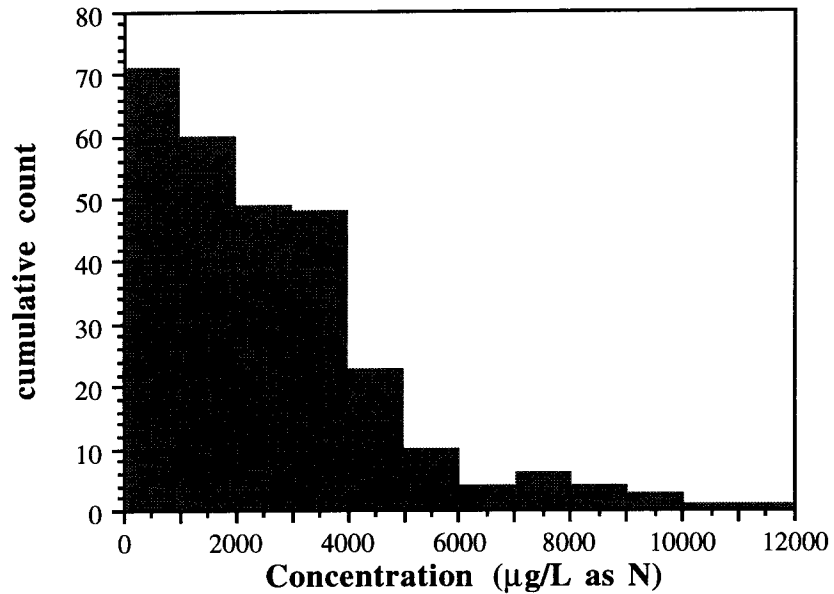


Figure B-13. Histogram Plot for STORET Code = 620 (Nitrate Nitrogen, Total).

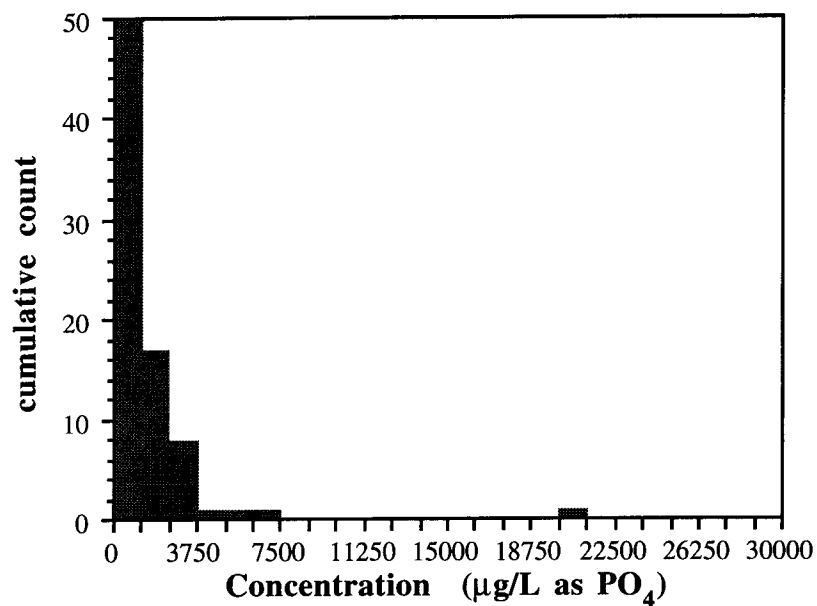


Figure B-14. Histogram Plot for STORET Code = 650 (Phosphate, Total).

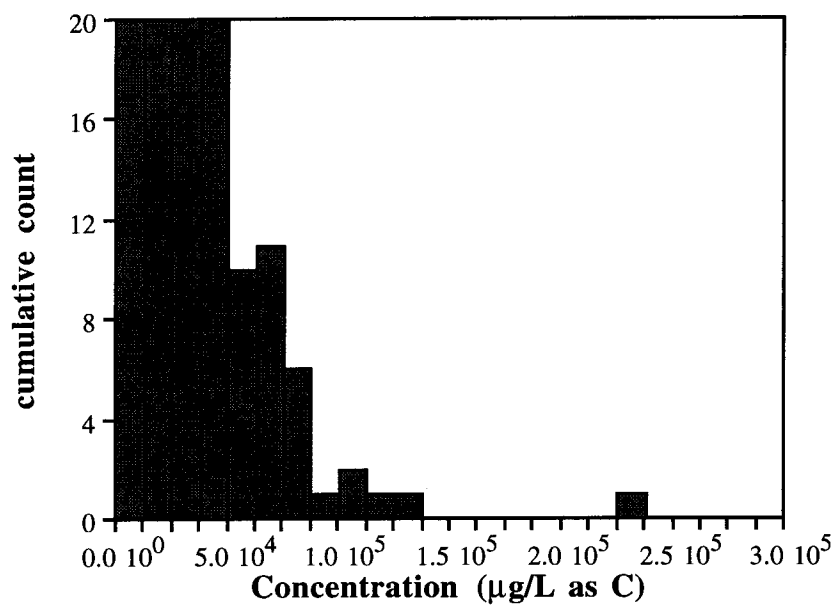


Figure B-15. Histogram Plot for STORET Code = 680 (Carbon, Total Organic).

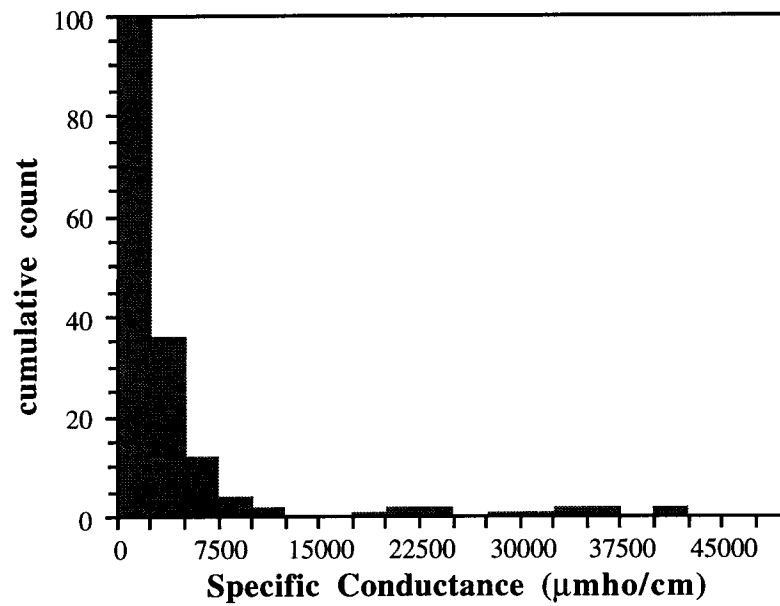


Figure B-16. Histogram Plot for STORET Code = 95 (Specific Conductance, @25°C).

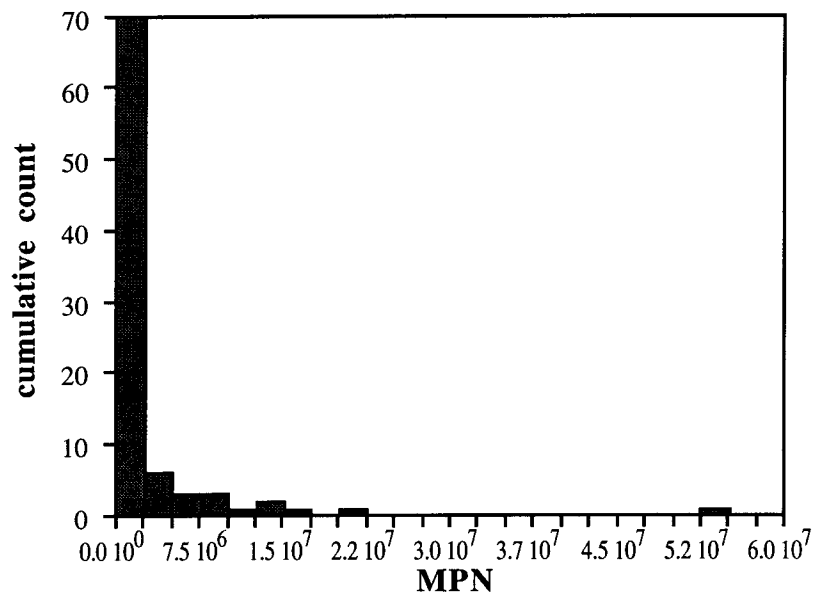


Figure B-17. Histogram Plot for STORET Code = 31505 (Coliform, Total, MPN).

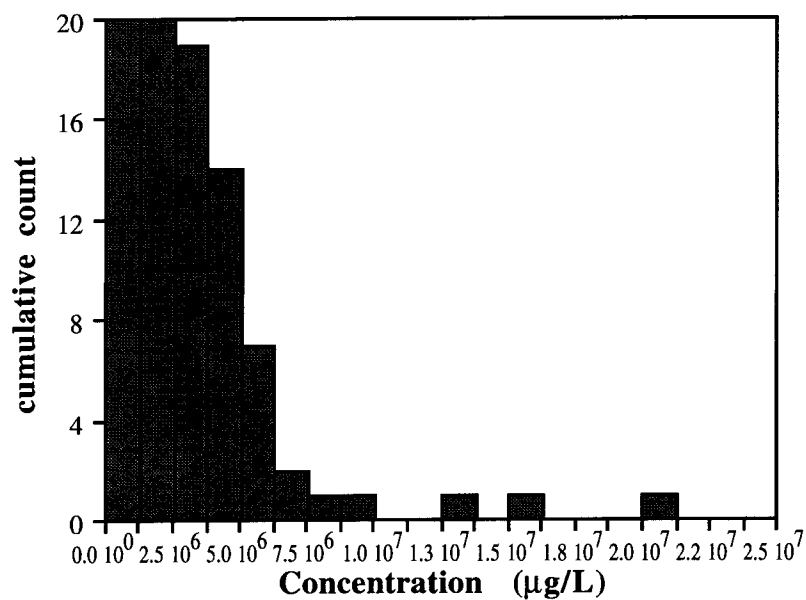


Figure B-18. Histogram Plot for STORET Code = 530 (Residue, Total).

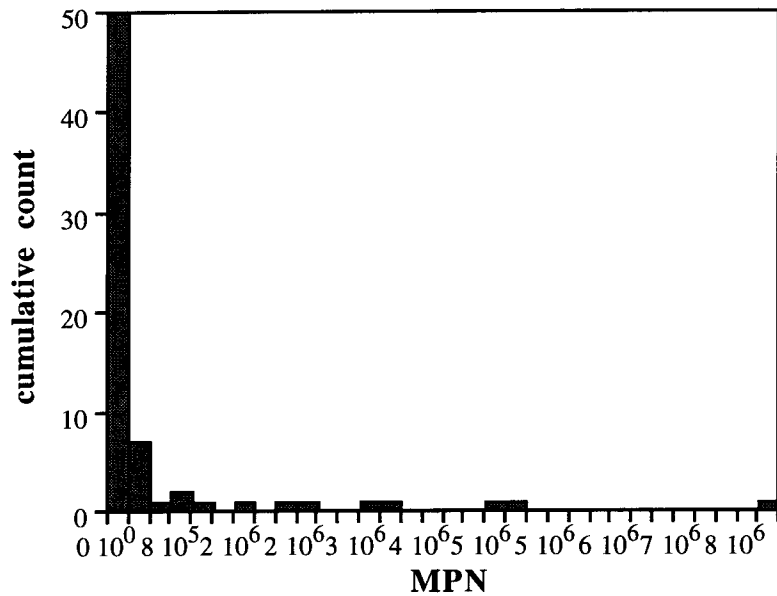


Figure B-19. Histogram Plot for STORET Code = 31615 (Fecal Coliform, MPN).

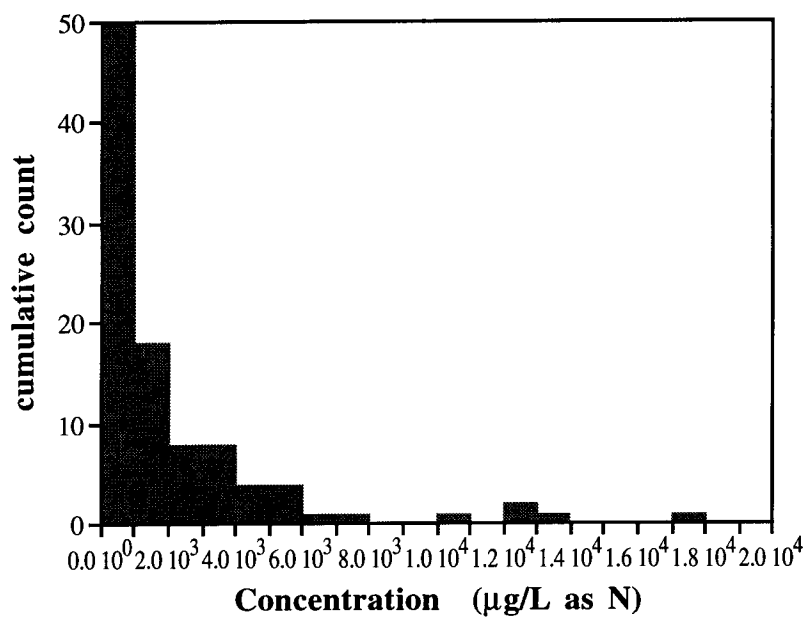


Figure B-20. Histogram Plot for STORET Code = 610 (Nitrogen, Ammonia, Total).

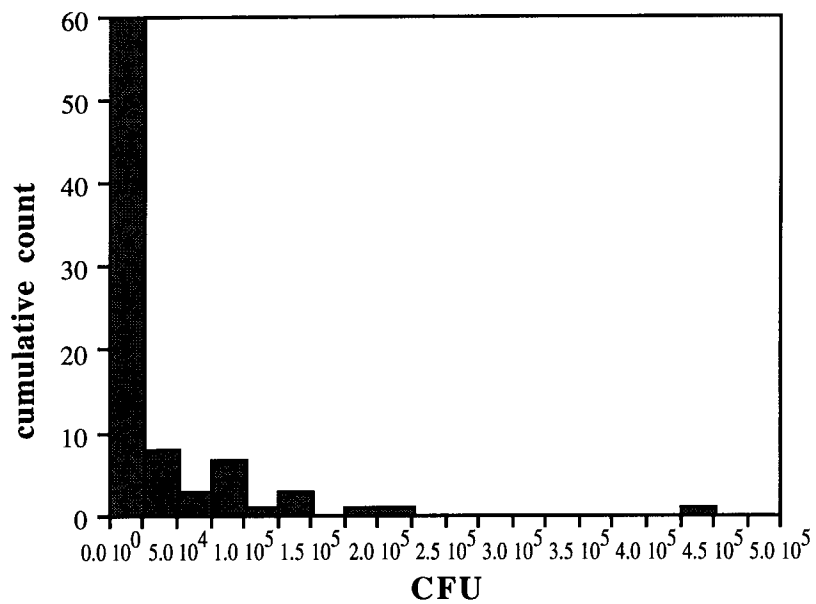


Figure B-21. Histogram Plot for STORET Code = 31616 (Fecal Coliform, Membrane Filter).

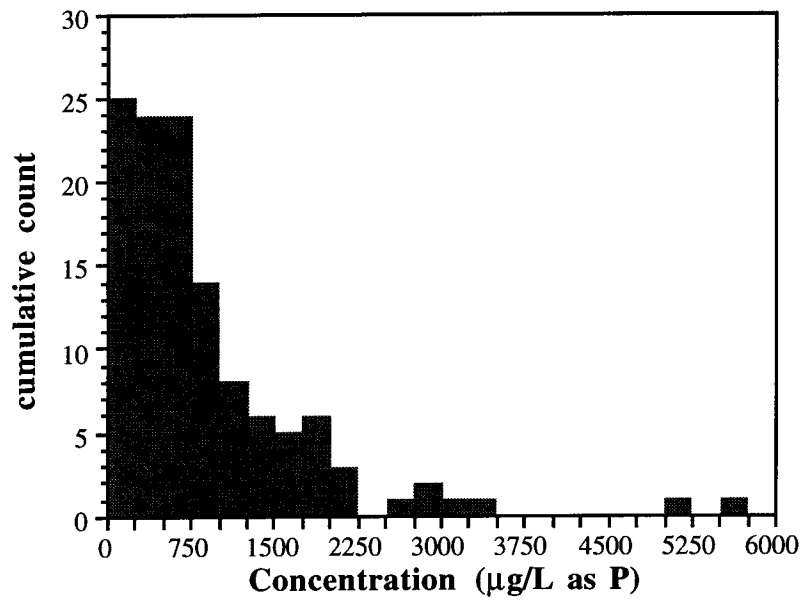


Figure B-22. Histogram Plot for STORET Code = 70507 (Phosphorus, in Total Orthophosphate).

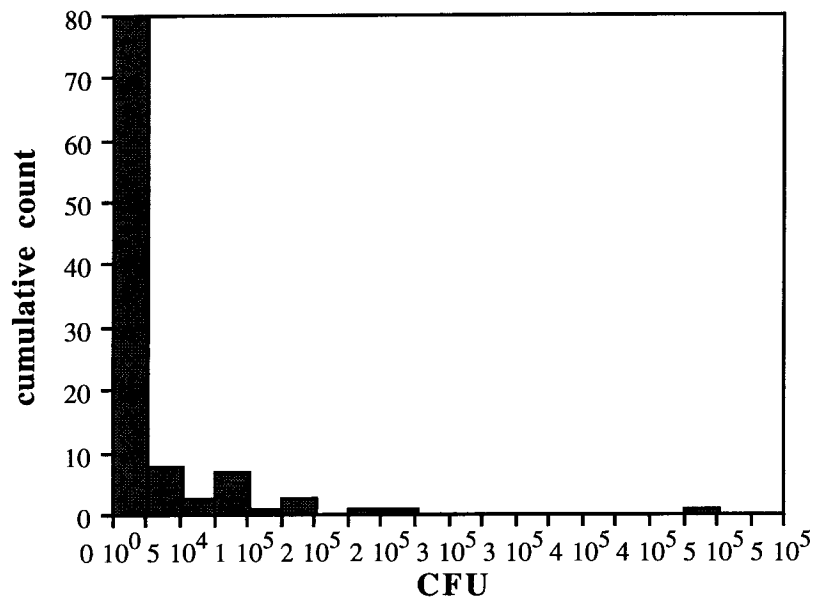


Figure B-23. Histogram Plot for STORET Code = 31673 (Fecal Streptococci, Membrane Filter).

Source Number 1

Title of Data Set or Report	Santa Monica Bay Stormwater Pollutant Reduction Study
Prepared by	Engineering-Science Inc.
Prepared for	City of Los Angeles, Wastewater Program Management Division
Date of Sampling	Throughout 1988
Date Study Released	6/1/89
Sampling Sites	Ballona Creek, Figueroa Street and 12th Street, Adams Blvd and Hope Sreet, Windsor Blvd (500 feet north of 12th Street), Cimarron Street and 29th Street, Bronson Avenue
Number of Samples	64
Sampling Frequency	Dry Weather Flow: 24 hour composite samples of 24 discrete 1 hour samples Stormwater Samples: grab samples from throughout the storm event
Parameters Tested	TSS, oil and grease, metals, PCBs, herbicides, dioxins, PAHs and enterococcus (includes loading rate calculations)
Applicability For Our Use (high, medium or low)	High
Comments	Data were collected expressly for the purpose of identifying pollutant emissions for various types of land uses, but do not correspond directly to any discharges to the Santa Monica Bay. Detection limits are high, since official EPA analytical techniques were used; consequently many of the observations are less than detection limits.
Reference	David Connally Environmental Science, Incorporated Environmental Science Operations 75 North Fair Oaks Avenue P. O. Box 7107 Pasadena, California 91109 (818) 440-6000 Job Number: PS 053

Source Number 2

Title of Data Set or Report	Santa Monica Bay Coliform Database
Prepared by	Science Applications International Corporation (SAIC)
Prepared for	California Regional Water Quality Control Board
Date of Sampling	9/1/87 through 7/1/90
Date Study Released	August 1990
Sampling Sites	17 shoreline stations from the City of LA treatment plant (Hyperion), 7 shoreline stations from the LA County Sanitation Districts treatment plant and 30 stations from streams and stormdrains from the County of Los Angeles Department of Public Works
Number of Samples	1 sample collected during each sampling
Sampling Frequency	Daily or about twice weekly at each station at each site
Parameters Tested	Total coliform, fecal coliform and enterococcus
Applicability For Our Use (high, medium or low)	High
Comments	Data from shoreline stations do not characterize inputs to the Bay. Data from the Department of Public Works was provided from their STORET database and is included in the data set from Source Number 11.
Reference	

Source Number 3

Title of Data Set or Report	Surface Water Quality Survey -- Santa Monica Bay Inputs
Prepared by	California Regional Water Quality Control Board
Prepared for	Same as above
Date of Sampling	Once or twice annually from 1986 to present
Date Study Released	N/A
Sampling Sites	14 sites throughout Santa Monica Bay drainage basin (concentrated along Ballona Creek)
Number of Samples	20
Sampling Frequency	1 to 2 grab samples per site
Parameters Tested	VOCs, metals, herbicides, pesticides, COD, BNAs, acetone, PCBs, petroleum hydrocarbons and cyanide
Applicability For Our Use (high, medium or low)	High
Comments	Well documented location on topographic maps. Usually no flow data, except rough estimates in some cases. Few observations above detection limits. Not all points are inputs to Santa Monica Bay.
Reference	

Source Number 4

Title of Data Set or Report	Advisory Warning -- Discharges from Storm Drains into Santa Monica Bay
Prepared by	County of Los Angeles, Department of Health Services
Prepared for	County of Los Angeles, Department of Beaches and Harbors
Date of Sampling	July through September, 1986
Date Study Released	7/28/86
Sampling Sites	Discharges from the following storm drains: Ballona Creek, Imperial Avenue, Pulga Canyon Creek, Ainsworth Avenue, Ashland Avenue, Kenter Canyon at Pico Blvd, Santa Monica Canyon Creek, Santa Monica Pier and Avenue I
Number of Samples	9 samples per site
Sampling Frequency	Weekly from 7/21/86 to 9/3/86 and twice weekly through 9/18/86 for coliforms, twice weekly from 9/3/86 through 9/18/86 for enterococcus
Parameters Tested	Total coliform, fecal coliform and enterococcus
Applicability For Our Use (high, medium or low)	High
Comments	Samples were collected in the surf zone at the mouth of the storm drain and at 10, 25, 50, 80 and 150 yards on each side of the storm drains. Only data from samples collected at the point of discharge are to be incorporated into this database.
Reference	

Source Number 5

Title of Data Set or Report	An Assessment of Inputs of Fecal Indicator Organisms and Human Enteric Viruses From Two Santa Monica Storm Drains
Prepared by	Santa Monica Bay Restoration Project
Prepared for	Santa Monica Bay Restoration Project
Date of Sampling	August and September 1989
Date Study Released	June 1990
Sampling Sites	Outfall from the Kenter Canyon (at Pico Blvd) and the Ashland Avenue storm drains
Number of Samples	15 at each site
Sampling Frequency	Once or twice weekly from 8/10/89 to 9/29/89
Parameters Tested	Total coliform, fecal coliform, enterococcus and enteric viruses
Applicability For Our Use (high, medium or low)	High
Comments	Data collected specifically to determine the existance of human fecal material inputs to the storm drains. Results were positive.
Reference	

Source Number 6

Title of Data Set or Report	Stormwater Runoff Program
Prepared by	SCCWRP
Prepared for	California Regional Water Quality Control Board
Date of Sampling	11/28/70 to 9/26/73 and 9/23/86 to 9/15/87
Date Study Released	N/A
Sampling Sites	Ballona Creek at Inglewood Avenue
Number of Samples	Varies for each of the 8 storm events
Sampling Frequency	From 2 to 6 grab samples were collected during each storm event
Parameters Tested	Solids, oil and grease, coliform, PCBs, COD, metals, pesticides and PAHs
Applicability For Our Use (high, medium or low)	High
Comments	Samples were collected during low flow periods and for rising, peak and declining flows of each storm event. Includes flow data.
Reference	

Source Number 7

Title of Data Set or Report	The National Pollutant Discharge Inventory
Prepared by	NOAA
Prepared for	Same as above
Date of Sampling	N/A
Date Study Released	7/1/88
Sampling Sites	Estimates for Santa Monica Bay (based on land use data)
Number of Samples	N/A
Sampling Frequency	N/A
Parameters Tested	BOD, TSS, N, P, metals, petroleum hydrocarbons, PCBs and fecal coliform (all values are estimated)
Applicability For Our Use (high, medium or low)	Low
Comments	A model used to generate estimated values from land use characteristics. No data will be included in the final data set.
Reference	

Source Number 8

Title of Data Set or Report	NPDES Monitoring Reports
Prepared by	California Regional Water Quality Control Board
Prepared for	California Regional Water Quality Control Board
Date of Sampling	Varies with the individual permit
Date Study Released	N/A
Sampling Sites	Throughout Santa Monica Bay drainage basin
Number of Samples	Varies with the individual permit
Sampling Frequency	Varies with the individual permit
Parameters Tested	Typically TSS, oil and grease, BOD, temperature, TOC, flow rate, etc.
Applicability For Our Use (high, medium or low)	High
Comments	Permit compliance data for discharges to storm water drains within the Santa Monica Bay drainage basin. The parameters tested will vary with the individual permit. They could be used to determine upper bounds for legal discharges in Ballona Creek and other storm drains. These data are not included in the final data set.
Reference	

Source Number 9

Title of Data Set or Report	Search for Mutagens and Carcinogens in Pico-Kenter Storm Drain -- Final Report
Prepared by	County Sanitation Districts of LA County at their San Jose Creek Water Quality Lab
Prepared for	County of Los Angeles, Office of the Chief Administrative Officer
Date of Sampling	October 1980
Date Study Released	12/1/80
Sampling Sites	Kenter Canyon drain at Pico Blvd
Number of Samples	2
Sampling Frequency	Samples taken 16 days apart
Parameters Tested	Analysis of HPLC fractionated samples resolved more than 600 compounds
Applicability For Our Use (high, medium or low)	Low
Comments	This data will not be included in our data set since they do not characterize discharges into the bay. Ames tests were performed and the results suggest that only the whole residue and non-polar fractions were mutagenic. The two samples were quite different in their molecular characterization.
Reference	

Source Number 10

Title of Data Set or Report	Untitled at this time (tentative title: Ozone Pilot Plant Demonstration Project for the Treatment of Urban Stormdrain Dry Weather Flows)
Prepared by	City of Santa Monica Department of Engineering (Gerry Greene)
Prepared for	The EPA and the Santa Monica Bay Restoration Project
Date of Sampling	11/20/89 to present
Date Study Released	In progress (projected for 1991)
Sampling Sites	Kenter Canyon drain at Pico Blvd
Number of Samples	3 samples collected during each sampling
Sampling Frequency	Daily to weekly
Parameters Tested	Among the numerous parameters tested are: flow rate, total coliform, fecal coliform, TS, TDS, TSS, settleable solids, turbidity and metals
Applicability For Our Use (high, medium or low)	Medium
Comments	This data set has more observations for a single point than any other data set. Unfortunately it does not correspond to a discharge location. Never-the-less, these data should be useful in estimating stormwater variability.
Reference	

Source Number 11

Title of Data Set or Report	LA County Department of Public Works surface water monitoring program data
Prepared by	LA County Department of Public Works
Prepared for	Same as above
Date of Sampling	1971 to present
Date Study Released	N/A
Sampling Sites	The following storm drains: Ballona Creek at Fairfax Avenue, Ballona Creek at Sawtelle Blvd, Centinela Creek at Centinela Blvd, Corral Canyon Creek at PCH, Dume Creek at Zuma Beach, Kenter Canyon drain at Pico Blvd, Malibue Creek at Cross Creek Road, Santa Monica Canyon at Short Street, Sepulveda Channel at Culver Blvd, Topanga and Canyon Creek at PCH
Number of Samples	Varies with site and year
Sampling Frequency	Typically monthly or annually
Parameters Tested	A wide spectrum of parameters were measured; irregular frequency
Applicability For Our Use (high, medium or low)	High
Comments	A variety of different analytical techniques, different laboratories, and different sampling techniques were used. The data have been placed in a publically readable STORET file. More recent data have been provided by the Department in FOCUS database form. Flow rate data have not been included which makes mass emission rates difficult to estimate.
Reference	

Source Number 12

Title of Data Set or Report	Deposition and Processing of Airborne Nitrogen Pollutants in Mediterranean-Type Ecosystems of Southern California
Prepared by	Pacific Southwest Forest and Range Experiment Station, Forest Service, US Department of Agriculture
Prepared for	Environmental Science and Technology, Volume 19, Number 9
Date of Sampling	March 1982
Date Study Released	September 1985
Sampling Sites	From a stream site in each of the following canyons in the Santa Monica Mountains: Deer, La Chusa, Trancas, Ramirez, Solstice, Corral, Carbon and Upper Santa Ynez
Number of Samples	8 (one from each stream)
Sampling Frequency	Samples were collected once on 3/25/82
Parameters Tested	Stream water nitrate concentrations following a major storm
Applicability For Our Use (high, medium or low)	High
Comments	This paper suggests that atmospheric deposition of nitrate might be as high as 7.0 mg/L in runoff from undeveloped land in the San Gabriel Mountains. Nitrate in runoff from undeveloped land the Santa Monica Mountains was much lower, generally less than 0.2 mg/L. If true, estimates of nitrogen and possibly other pollutants from undeveloped areas will need to be dramatically changed in urban runoff/land use models.
Reference	

Source Number 13

Title of Data Set or Report	California State Mussel Watch Program
Prepared by	State Water Resources Control Board
Prepared for	State Water Resources Control Board
Date of Sampling	1977 to present
Date Study Released	Annual reports
Sampling Sites	At least 17 stations along the Santa Monica Bay shoreline and within Marina Del Ray
Number of Samples	1 sample collected during each sampling
Sampling Frequency	Approximately once or twice annually
Parameters Tested	Numerous synthetic organic substances and trace elements were detected within collected tissue samples
Applicability For Our Use (high, medium or low)	Low
Comments	Data consists solely of tissue sample analysis. This data will not be included in our data set since they do not characterize discharges into the bay.
Reference	

Source Number 14

Title of Data Set or Report	Hyperian Treatment Plant's Coliform Data Set
Prepared by	Hyperian Treatment Plant
Prepared for	Hyperian Treatment Plant
Date of Sampling	1986 to present (data exists back to 1976)
Date Study Released	Not compiled into a complete report
Sampling Sites	Pulga Canyon, Santa Monica, Pico, Ashland, Imperial Highway and Avenue I stormdrains and Ballona Creek at Duquesne, Overland, Centinela and Pacific Avenues; occasional sampling at the Bay Club stormdrain and Rosa, Sunset, Thorton, Whilshire, Grand and Montana Avenues and Redondo and Hermosa Pier stormdrains
Number of Samples	1 to 3 samples collected during each sampling
Sampling Frequency	Varies significantly for each site (daily to monthly)
Parameters Tested	Fecal coliform, total coliform, enterococcus and occasionally rainfall
Applicability For Our Use (high, medium or low)	High
Comments	
Reference	

Source Number 15

Title of Data Set or Report	Los Angeles River Loadings of Trace Metals and Synthetic Organics
Prepared by	US EPA ERLN Pacific Ecosystems Branch and AScl Corporation
Prepared for	Same as Above
Date of Sampling	1970 to 1985
Date Study Released	April 1991
Sampling Sites	Santa Clara River, Los Angeles River, San Gabriel River, Coyote Creek, Santa Ana River, Calleguas Creek, Dominiques Channel, Arroyo Grande, San Juan Creek, San Luis Rey, Santa Ynez River, Ventura River, Pico Storm Drain, Ballona Creek
Number of Samples	744
Sampling Frequency	One or more samples collected during each sampling
Parameters Tested	TDS, TOC, TSS, Ag, Cd, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Zn
Applicability For Our Use (high, medium or low)	High
Comments	Only data from Ballona Creek and Pico Storm Drain are included in the final data set.
Reference	David R. Young US EPA ERLN Pacific Ecosystems Branch Hatfield Marine Science Center 2111 S.E. Marine Science Drive Newport, Oregon 97365-5260 EPA Report Number 600/X-91/030